

Sensor-actuator cabling and circular connectors

Catalogue 2017/2018

Let's connect.

Signal and power transmission



Dear Customers,

The PDF versions of our catalogues offer practical additional functions, helping you to find your way around our product range and simplifying the ordering process.

In addition to the catalogue, the PDF also contains:

- Internal page links
- Links to the online catalogue

Try it out for yourself. Click the order number to obtain more detailed information and close-up images via your web browser. The links in the PDF file also enable you to go directly to the next desired catalogue page.

Further Weidmüller product catalogues can be accessed by clicking the following:



Sensor-actuator cabling and circular connectors

Catalogue 8

Sensor-actuator cabling and circular connectors	Sensor Actuator Interface
	M8, M12 Sensor and actuator cables
	M8, M12 Plug-in connectors and protective caps
	Device connectors
	7/8" connectors
	M23 Connectors and cables
	M12 POWER (A-, S-, K-, L- and T-coded)
	Passive distributors
	Weidmüller Industry Light
	Remote I/O data cables - Plug-in connectors and modules
	JACKPAC® (IP 67)
	SAI empty housing
	Tools and markers

Appendix

Service and support

Technical appendix

Index

Index Type / Index Order No.
Addresses worldwide

M8, M12 Sensor and actuator cables

M12 one end without connector
Page B.11



M12 one end without connector, shielded
Page B.15



Twin cabling M12 one end without connector Page B.18



M8 one end without connector
Page B.19



M8 one end without connector shielded
Page B.21



M5 one end without connector
Page B.25



M16 one end without connector
Page B.26



Connecting cables M12 to M12
Page B.29



Connecting cables M12 to M8
Page B.33



Connecting cables M12 to USB
Page B.37



Connecting cables M8 to M8
Page B.38



Twin sensor cables
Page B.43



M12 one end without connector, B-coded
Page B.49



SAI Clip
Page B.51



Valve cables one-sided
Page B.53



Connecting cable
Page B.62



M8, M12 Plug-in connectors and protective caps

Customisable connectors M12 Page C.7



Tension-clamp connection M12 Page C.19



M12 crimp connection Page C.20



Screw connection M8 Page C.23



Solder connection M8 Page C.25



Insulation displacement connection M12 Page C.29



Insulation displacement connection M8 Page C.31



Solder connection M16 Page C.32



Y-distributor T-distributor Page C.33



Panel feed-through Page C.36



Protective caps Page C.37



Built in plugs M12 Page C.39



Built in plugs M8/M5 Page C.41



Built in plugs M12 shielded Page C.45



Built in plugs solder connection M12 Page C.46



Built in plugs solder connection M16 Page C.48



Valve plugs for custom assembly Page C.51



Protective sleeve adapter Page C.56



Device connectors

**Quick finder dome /
Flange-mounted housing** Page D.4



M8 Dip solder Page D.6



M8 THR Page D.10



M8 SMT Page D.14



M8 Dome Page D.17



M8 Flange-mounted housing Page D.18



M12 Dip solder Page D.22



M12 SMT Page D.36



M12 Dome Page D.39



M12 Flange-mounted housing Page D.44



M12 Solder cup Page D.46



7/8" connectors

7/8" connector Page E.6



7/8" built-in plug Page E.8



7/8" T-distributor Page E.12



**7/8" one end without
connector** Page E.13



M23 Connectors and cables

Housings for signal transmission Page F.12



Built-in connectors for signal transmission Page F.13



PushPull enclosure for signal transmission Page F.14



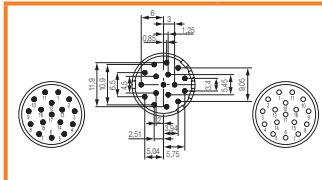
Stainless steel enclosure for signal transmission Page F.15



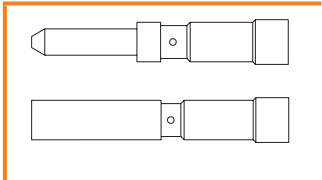
Built-in connectors, stainless steel for signal transmission Page F.16



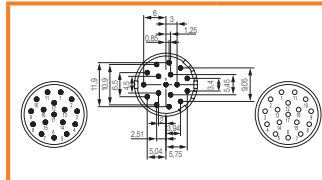
Inserts for signal transmission Page F.18



Contacts for signal transmission Page F.20



Inserts for solder contacts for signal transmission Page F.23



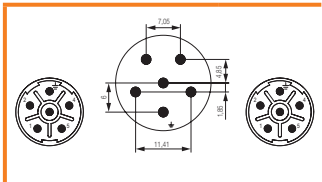
Housings for power transmission Page F.30



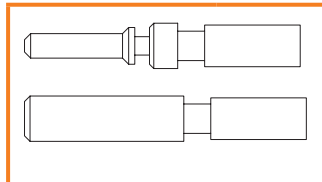
Built-in connectors for power transmission Page F.31



Inserts for power transmission Page F.32



Contacts for power transmission Page F.33



M23 protective caps Page F.34



M23 protective caps stainless steel Page F.35



Moulded M23 cables Page F.36



SAI distributor with M23 Page F.37



M12 POWER (A-, S-, K-, L- and T-coded)

M12 L-coded

Page G.4



M12 K-coded

Page G.6



M12 S-coded

Page G.8



M12 T-coded

Page G.10



Customisable plug-in connectors M12

Page G.12



Customisable panel feed-through

Page G.16



Built-in plug

Page G.18



M12 distributor

Page G.20



M12 power distributor

Page G.22



Passive distributors

<p>M12 Page H.7</p> 	<p>M12 Line Page H.11</p> 	<p>M12 DIP with DIP-switch Page H.14</p> 	<p>M12 ECO Page H.17</p> 
<p>M12 Push-Pull Page H.18</p> 	<p>M12 CNOMO Page H.21</p> 	<p>M12 IDC Page H.22</p> 	<p>M12 VA stainless steel Page H.26</p> 
<p>M12 metal distributors Page H.28</p> 	<p>M12 distributors 1:1 Page H.34</p> 	<p>M12 Combi distributor Page H.35</p> 	<p>M12 for NPN and PNP sensors Page H.36</p> 
<p>M12 wall bushing Page H.37</p> 	<p>M12 Pre-assembled hood version Page H.40</p> 	<p>M12 distributor accessories Page H.41</p> 	<p>M8 Page H.42</p> 
<p>M8 Line Page H.48</p> 	<p>M8 distributor with solder pins Page H.50</p> 	<p>M5 Line Page H.54</p> 	<p>M12 Ex Zone 1 Page H.56</p> 

WIL – Weidmüller Industry Light

Weidmüller Industry Light

Page 1.2



Remote I/O data cables – Plug-in connectors and modules

PROFIBUS-DP - cables
Page J.6



PROFIBUS-DP - plug-in connector (M12, Sub-D)
Page J.10



PROFIBUS D-sub connector
Page J.18



PROFIBUS-DP - FBCon T-distributor
Page J.28



PROFIBUS-PA - cables
Page J.34



PROFIBUS-PA - plug-in connector
Page J.37



PROFIBUS-PA - FBCon T-distributor
Page J.42



PROFIBUS-PA - FBCon T-distributor with surge protection
Page J.47



PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)
Page J.54



ASI - Cables
Page J.60



ASI - T-piece
Page J.61



CANopen & DeviceNet™ - cables (M12, M8)
Page J.62



CANopen & DeviceNet™ - connectors
Page J.66



EtherCAT
Page J.67



Ethernet - cables
Page J.68



Ethernet - plug-in connector
Page J.76



FOUNDATION Fieldbus - connector (7/8")
Page J.82



Accessories cable glands
Page J.83



JACKPAC® (IP 67)

JACKPAC®

Page K.3



JACKPAC® test

Page K.6



Empty housing SAI JACKPAC®

Page K.8



SAI empty housing

SAI empty housing

Page L.8



Tools and markers

Screwty® for M8/M12/M23

Page M.5



Cutting tools

Page M.7



Sheathing and insulation stripping tools

Page M.8



Crimping tools

Page M.12



Identification systems

Page M.16



Sensor Actuator Interface

Sensor Actuator Interface

Introduction

A.2

Simple power wiring up to 16 A and 630 V AC

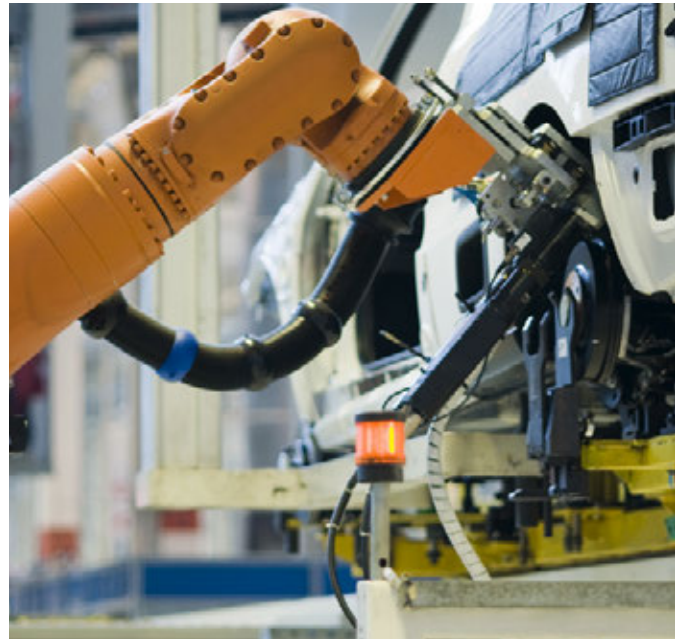
Pre-assembled M12 power cables in four codings: S, T, K and L

A

Previously, the power wiring for installation of machine and plant components involved fabricating cables and distribution boxes on site. This led to long installation times and frequent errors. Plug and play solutions based on M12 provide an answer to this problem and enable reduced machine installation times and reduced error rates.

Our pre-assembled M12 power cables simplify power wiring and save time on machine setup. The different codings available ensure high flexibility in designing a modular power supply in the field.

The power cables are augmented by the existing SAI distributors and the free-assembly connectors.



The power supply to the robot is really quick and simple to set up with the pre-assembled M12 power cables

Your special advantages:

The one-stop solution

Weidmüller offers a complete solution consisting of free-assembly plug-in connectors, encapsulated cables and the associated SAI distributors. Together, they form the optimum solution for quick, error-free power distribution for machines and plants.

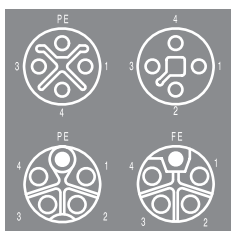
Quick and safe

Thanks to the pre-assembled power cables, installation is quick and error-free. Safely avoid wiring errors caused by incorrect assignment.



Complete portfolio

The new cables are in addition to our S and T coded system of power cables.



Integrated solution for plant power wiring

In addition to the new M12 power cables, Weidmüller offers SAI MVV and SAI SVV distributors and field-attachable plug-in connectors, which is an optimum solution for quick, error-free power wiring in the plant.



New connections

L-coded cables now also enable connections at up to 16 A by means of M12 plug-in connectors.



Convenient design and assembly of reliable device solutions

Innovative M8 and M12 PCB connectors

A

In many areas of machine construction, M8 or M12 PCB connectors are the standard connectors used today. Not only have they been tried and tested in our SAI distributors, they are also used anywhere where harsh environmental conditions require a device design with especially reliable connections.

In addition to excellent connection quality, our M8 and M12 built-in connectors also offer very convenient installation. Certain M8 and M12 types may be soldered to the installation wall at the same distance. The PCB and housing can also be assembled separately before the nut and plug-in insert are combined in the end device.

The new M8 and M12 built-in connectors optimise proven standards while making it extremely easy and convenient to configure IP6x devices. They are suitable for reflow soldering and are available in a number of different variants for different soldering methods.



In the field of equipment manufacturing for the IP6x world, the smart M8 and M12 plug-in connectors offer the perfect solutions. They ensure reliable connections with a convenient device design and efficient final assembly.

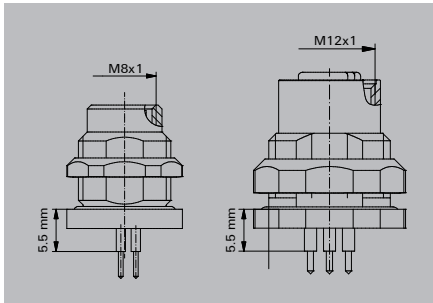
Your special advantages:

Standardised concept

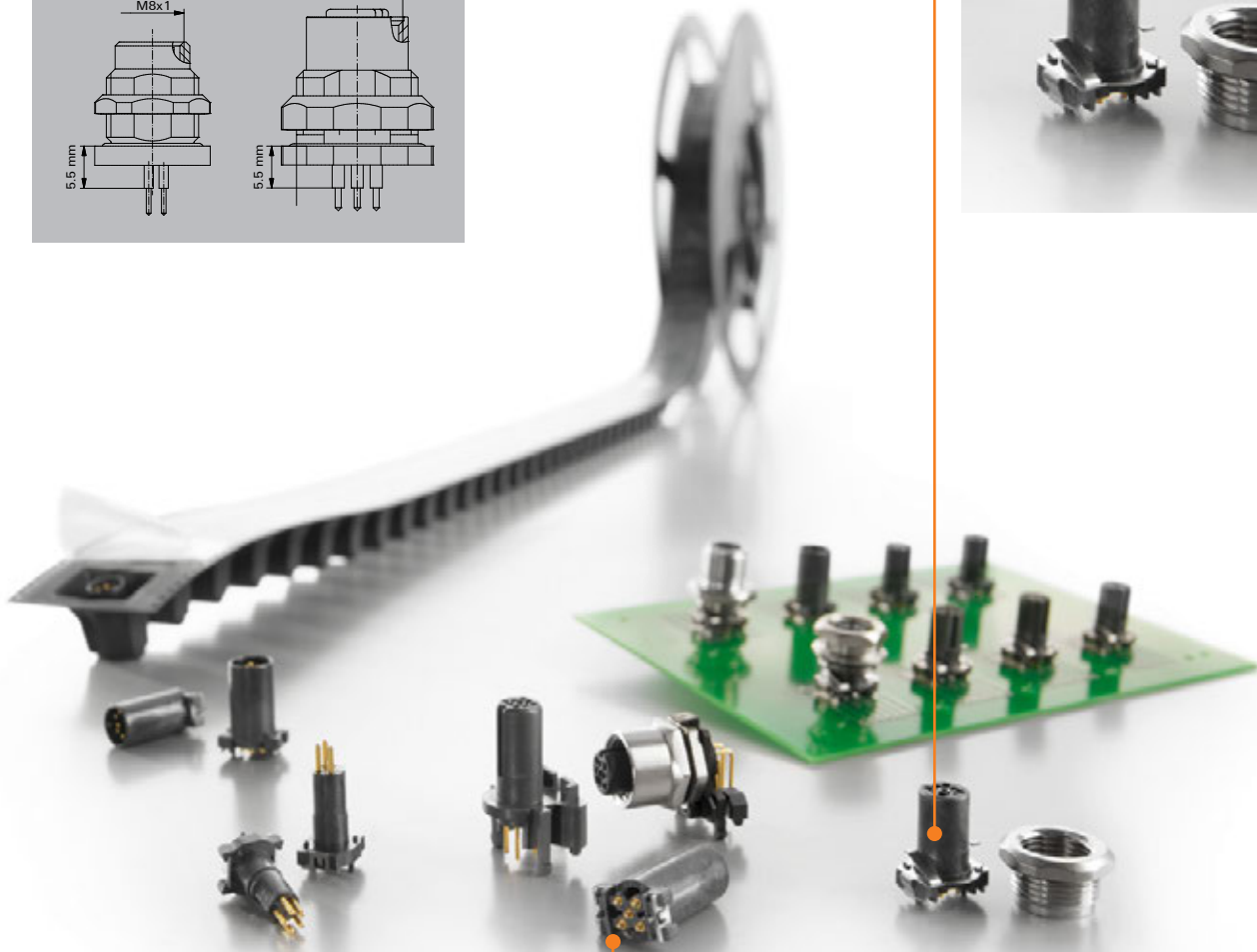
All of the components in the entire M8 or M12 plug-in connector series are perfectly coordinated to one another, making design and assembly significantly easier.

Sophisticated system

Regardless of whether it's an M8 or M12, both plug-in connector types are characterised by a uniform distance from the PCB to the metal housing.

**Two-component plug-in connector**

Plug-in insert for the PCB; metal nut for the housing. These create the finished M-plug when assembled.

**Reflow-suitable solution**

The implementation of reflow solutions for SMD and THR assembly means that the M8 or M12 inserts can be handled in any soldering process.

**SAI lines are the perfect complement**

At Weidmüller, you will find a wide range of complementary products in the form of lines and customisable plug-in connectors for field wiring.



Lighting for control cabinets and devices in the field

Weidmüller Industry Light WIL

A

Control cabinets are often insufficiently lit. Conventional cabinet lighting, however, is too large and expensive. A favourable lighting solution should be space-saving and effective to make maintenance work in cabinets more efficient and safe.

The new Weidmüller Industry Light meets these requirements. A compact LED light illuminates the inside of the cabinet with a wide light cone. The smart solution can be used as illumination in the field as well.

The new LED light is designed to fit exactly into a standard cabinet and is protected against water and dust for field use in accordance with IP67. Its intelligent design makes it extremely robust and small.



Contemporary and energy-saving lighting solution for various industrial fields.

Your special advantages:

Optimal illumination for any purpose

Increasing safety requirements and growing cost pressures call for an increasingly more efficient deployment of maintenance workers in the field. Weidmüller Industry Light WIL is a powerful, elegant and economical solution, reducing the time required for and costs of maintenance.

Robust and modern design

The aluminium housing is designed to withstand even the harshest environmental conditions.



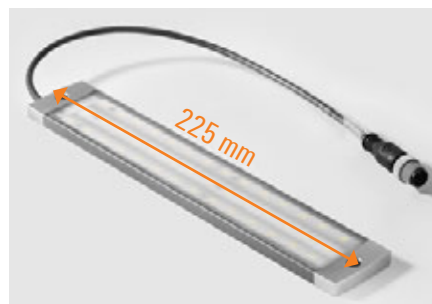
SAI modules for installation

The Weidmüller Industry Light can be sold together with our power supplies or with our SAI distributors and cables



Conventional mounting

The mounting holes are positioned at intervals of 225 mm, suitable for the mounting situation in most control cabinets.



Wide light cone

The unique LED arrangement provides a very wide light cone that perfectly illuminates the control cabinet.



Easy and extendable connection

The M12 plug allows for a fast and easy connection to the power supply.



Are you already a Weidmüller customer?

A

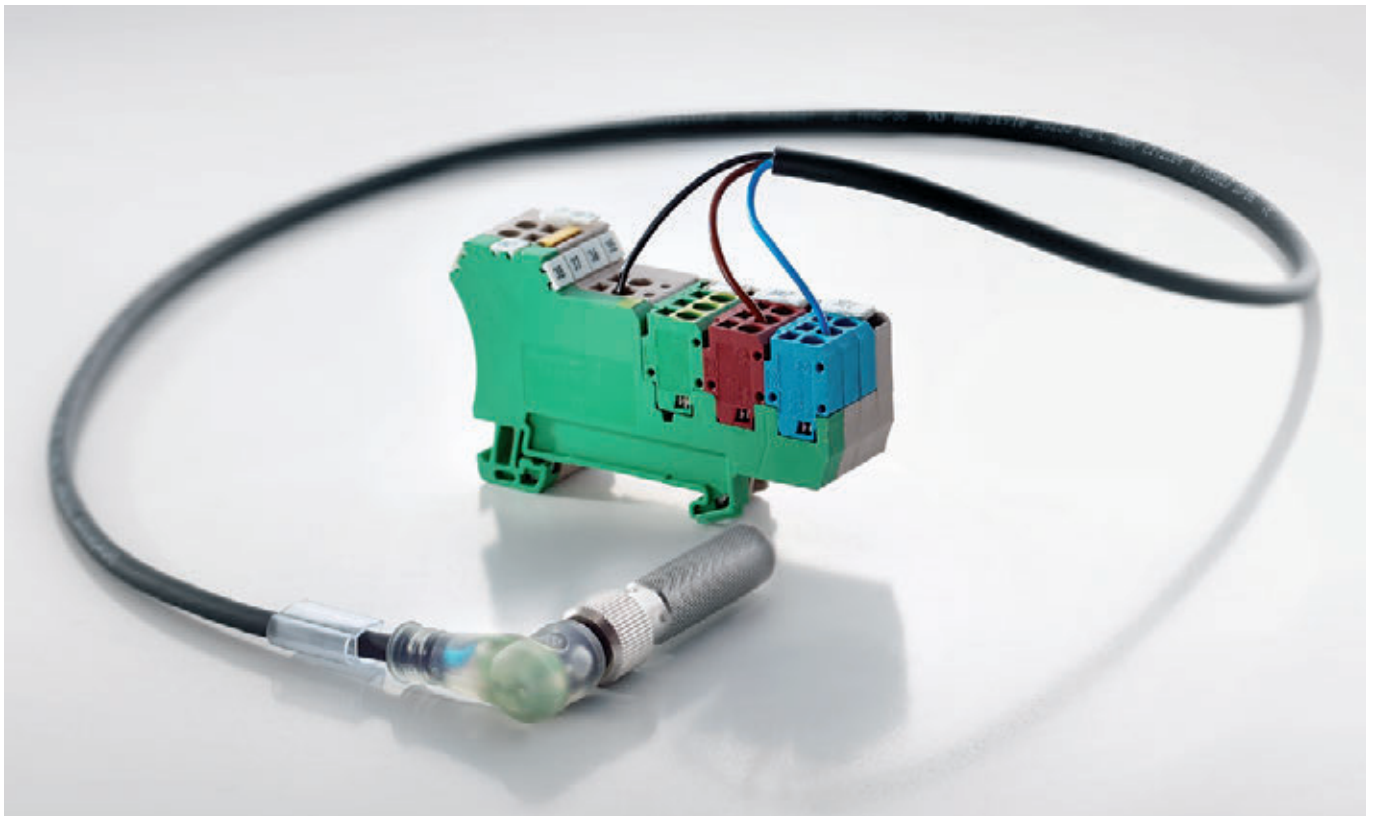
Then why not order your M12 or M8 cables from us!

Weidmüller supplies an extremely wide range of M12 and M8 cables, naturally with our proven Weidmüller quality assurance.

To answer as many demands as possible, we offer:

- PVC cables
- PUR/halogen-free cables

Of course, with very short delivery times and best conditions. Please do not hesitate to contact us for a quote or to receive further information.



M8, M12 Sensor and actuator cables

M8, M12 Sensor and actuator cables	Introduction	B.2
	Overview of sensor cables	B.4
	Sensor cables	B.10
	Power cables	B.48
	Connectors - accessories	B.51
	Valve cables	B.52
	Connecting cable for sensors and actuators	B.62
	Connecting cables for Weidmüller distributors	B.72

SAI cable

B Weidmüller manufactures its own SAI cable. This ensures optimal versatility. We do not use fully automatic machines which are difficult to adapt. That is why Weidmüller is well known for delivering promptly with quick turnaround times, despite our wide variety of available options. We can also develop and produce solutions for specific customer requirements. We regularly produce cables, for example, with customer specific labels and logos.

We realise that the cost of having this increased flexibility can be the decisive factor. In order to meet your cost requirements, an additional production line has been specifically designed to keep costs down. This line produces top-selling products for exceptional efficiency and cost savings.



Sensor cables from Weidmüller: shown here with yellow and black cables, together with bus cables



Easy to identify

The EAN number on each label can be scanned in.



Resistant to vibration

M8 with vibration resistance



High quality

Compatible for use in robots;
with recyclable, halogen-free cables



Versatile

Customised cables



One end without connector



Connecting cables



Valve cables



Connection cables / bus cables

Overview of sensor cables

B

		No. of poles	Cable material	One end free		M8 socket	
				PUR halogen-free	PVC	PUR halogen-free	PVC
One end free			1.5 m				
			3.0 m				
M8 plug	straight		1.5 m	1824590150	1927230150	1824570150	1927150150
			3.0 m	1824590300	1927230300	1824570300	1927150300
			5.0 m	1824590500	1927230500	1824570500	1927150500
			10.0 m	1824591000	1927231000	1824571000	1927151000
			variable	1824590000	1927230000	1824570000	1927150000
	90°		1.5 m	1906270150	1927250150		
			3.0 m	1906270300	1927250300	***	***
			5.0 m	1906270500	1927250500		
			10.0 m	1906271000	1927251000		
			variable	1906270000	1927250000		
M12 plug	straight		1.5 m	9457810150	1925430150	9457770150	1938170150
			3.0 m	9457810300	1925430300	9457770300	1938170300
			5.0 m	9457810500	1925430500	9457770500	1938170500
			10.0 m	9457811000	1925431000	9457771000	1938171000
			variable	9457810000	1925430000	9457770000	1938170000
	90°		1.5 m	9456100150	1925440150	***	***
			3.0 m	9456100300	1925440300		
			5.0 m	9456100500	1925440500		
			10.0 m	9456101000	1925441000		
			variable	9456100000	1925440000		
90°		1.5 m	9457610150	1925450150	***	***	
		3.0 m	9457610300	1925450300			
		5.0 m	9457610500	1925450500			
		10.0 m	9457611000	1925451000			
		variable	9457610000	1925450000			
90°		1.5 m	9456690150	1925510150			
		3.0 m	9456690300	1925510300	On request	On request	
		5.0 m	9456690500	1925510500			
		10.0 m	9456691000	1925511000			
		variable	9456690000	1925510000			
90°		1.5 m	1906260150	1925520150	***	***	
		3.0 m	1906260300	1925520300			
		5.0 m	1906260500	1925520500			
		10.0 m	1906261000	1925521000			
		variable	1906260000	1925520000			
90°		1.5 m	9457670150	1925530150	***	***	
		3.0 m	9457670300	1925530300			
		5.0 m	9457670500	1925530500			
		10.0 m	9457671000	1925531000			
		variable	9457670000	1925530000			

Preferred types / extracted from the complete line. Please make a separate enquiry for information about the M8 snap-on version, twin cabling and others.

M8 socket

straight



PUR halogen-free

PVC

9457850150	1927260150
9457850300	1927260300
9457850500	1927260500
9457851000	1927261000
	1927260000

90°



PUR halogen-free

PVC

9457380150	1927320150
9457380300	1927320300
9457380500	1927320500
9457381000	1927321000
9457380000	1927320000

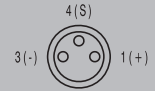


PUR halogen-free

PVC

9456150150	1927340150
9456150300	1927340300
9456150500	1927340500
9456151000	1927341000
9456150000	1927340000

90° angle with 2 LEDs



PUR halogen-free

PVC

9457460150	1927350150
9457460300	1927350300
9457460500	1927350500
9457461000	1927351000
9457460000	1927350000

1880470150	1927160150
1880470300	1927160300
1880470500	1927160500
1880471000	1927161000
1880470000	1927160000

On request

On request

9456660150	1938200150
9456660300	1938200300
9456660500	1938200500
9456661000	1938201000
9456660000	1938200000

On request

On request

1824580150	1927170150
1824580300	1927170300
1824580500	1927170500
1824581000	1927171000
1824580000	1927170000

1857670150	1927210150
1857670300	1927210300
1857670500	1927210500
1857671000	1927211000
1857670000	1927210000

9457980150	1938180150
9457980300	1938180300
9457980500	1938180500
9457981000	1938181000
9457980000	1938180000

1906330150	1938190150
1906330300	1938190300
1906330500	1938190500
1906331000	1938191000
1906330000	1938190000

1857660150	1927180150
1857660300	1927180300
1857660500	1927180500
1857661000	1927181000
1857660000	1927180000

1857680150	1927220150
1857680300	1927220300
1857680500	1927220500
1857681000	1927221000
1857680000	1927220000

9456670150	1938210150
9456670300	1938210300
9456670500	1938210500
9456671000	1938211000
9456670000	1938210000

1906340150	1938220150
1906340300	1938220300
1906340500	1938220500
1906341000	1938221000
1906340000	1938220000

1877250150	1927190150
1877250300	1927190300
1877250500	1927190500
1877251000	1927191000
1877250000	1927190000

On request

On request

9457760150	
9457760300	
9457760500	***
9457761000	
9457760000	

Overview of sensor cables

B

		M12 socket	
		straight	
One end free		No. of poles	
M8 plug	straight		
	90°		
M12 plug	straight		
	90°		
		Cable material	
		1.5 m	PUR halogen-free: 9457820150, PVC: 1925570150
		3.0 m	PUR halogen-free: 9457820300, PVC: 1925570300
		5.0 m	PUR halogen-free: 9457820500, PVC: 1925570500
		10.0 m	PUR halogen-free: 9457821000, PVC: 1925571000
		variable	PUR halogen-free: 9457820000, PVC: 1925570000
		1.5 m	PUR halogen-free: 1937950150, PVC: 1938230150
		3.0 m	PUR halogen-free: 1937950300, PVC: 1938230300
		5.0 m	PUR halogen-free: 1937950500, PVC: 1938230500
		10.0 m	PUR halogen-free: 1937951000, PVC: 1938231000
		variable	PUR halogen-free: 1937950000, PVC: 1938230000
		1.5 m	On request
		3.0 m	On request
		5.0 m	On request
		10.0 m	On request
		variable	On request
		1.5 m	PUR halogen-free: 9457230150, PVC: 1925300150
		3.0 m	PUR halogen-free: 9457230300, PVC: 1925300300
		5.0 m	PUR halogen-free: 9457230500, PVC: 1925300500
		10.0 m	PUR halogen-free: 9457231000, PVC: 1925301000
		variable	PUR halogen-free: 9457230000, PVC: 1925300000
		1.5 m	1821050150
		3.0 m	1821050300
		5.0 m	1821050500
		10.0 m	1821051000
		variable	1821050000
		1.5 m	On request
		3.0 m	On request
		5.0 m	On request
		10.0 m	On request
		variable	On request
		1.5 m	On request
		3.0 m	On request
		5.0 m	On request
		10.0 m	On request
		variable	On request

M12 socket

straight



PUR halogen-free

PVC

9457910150	1925590150
9457910300	1925590300
9457910500	1925590500
9457911000	1925591000
9457910000	1925590000

90°



PUR halogen-free

PVC

9457320150	1925630150
9457320300	1925630300
9457320500	1925630500
9457321000	1925631000
9457320000	1925630000



PUR halogen-free

PVC

9457740150	1925640150
9457740300	1925640300
9457740500	1925640500
9457741000	1925641000
9457740000	1925640000



PUR halogen-free

PVC

9457690150	1925650150
9457690300	1925650300
9457690500	1925650500
9457691000	1925651000
9457690000	1925650000

9457340150	1925320150
9457340300	1925320300
9457340500	1925320500
9457341000	1925321000
9457340000	1925320000

9456500150	On request
9456500300	
9456500500	
9456501000	
9456500000	

1937960150	1938240150
1937960300	1938240300
1937960500	1938240500
1937961000	1938241000
1937960000	1938240000

1937970150	1938250150
1937970300	1938250300
1937970500	1938250500
1937971000	1938251000
1937970000	1938250000

9457390150	1925340150
9457390300	1925340300
9457390500	1925340500
9457391000	1925341000
9457390000	1925340000

1815670150	1925380150
1815670300	1925380300
1815670500	1925380500
1815671000	1925381000
1815670000	1925380000

1937990150	1938270150
1937990300	1938270300
1937990500	1938270500
1937991000	1938271000
1937990000	1938270000

1938000150	1938280150
1938000300	1938280300
1938000500	1938280500
1938001000	1938281000
1938000000	1938280000

9457310150	1925350150
9457310300	1925350300
9457310500	1925350500
9457311000	1925351000
9457310000	1925350000

1906310150	1925390150
1906310300	1925390300
1906310500	1925390500
1906311000	1925391000
1906310000	1925390000

9457270150	1925360150
9457270300	1925360300
9457270500	1925360500
9457271000	1925361000
9457270000	1925360000

9457900150	1925400150
9457900300	1925400300
9457900500	1925400500
9457901000	1925401000
9457900000	1925400000

Overview of sensor cables

B

		No. of poles	Cable material	M12 socket		
				90° angle with 2 LEDs		
				PUR halogen-free	PVC	
				PUR halogen-free	PVC	
One end free			1.5 m 3.0 m 5.0 m 10.0 m variable	9457800150 9457800300 9457800500 9457801000 9457800000	1925460150 1925460300 1925460500 1925461000 1925460000	
M8 plug	straight		1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	
	90°		1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	
M12 plug	straight		1.5 m 3.0 m 5.0 m 10.0 m variable	9457790150 9457790300 9457790500 9457791000 9457790000	1925410150 1925410300 1925410500 1925411000 1925410000	
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	
	90°		1.5 m 3.0 m 5.0 m 10.0 m variable	On request	On request	***
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	On request
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	***
			1.5 m 3.0 m 5.0 m 10.0 m variable	***	***	***

Sensor cables with plug at one end only

M12



M8



M8 Snap connection



Twin cabling



M5



Sensor/actuator cable pre-assembled with M8/M12 plug-in connector at one end

Machine designers frequently require individual cable lengths. Sensor cables, with a connector fitted at one end only, can be easily adapted to the corresponding situation. The cables are available in many different versions: straight, 90° and with all common pole numbers (3, 4, 5, 8 and 12 Pole). Male plugs and Female sockets can be assembled to suit individual customer requirements for connecting cables. The cable sheathing is made of PUR (polyurethane) or PVC (polyvinylchloride), the PUR cables are suitable for use with cable carrier systems. Plugs and cables are in neutral black.

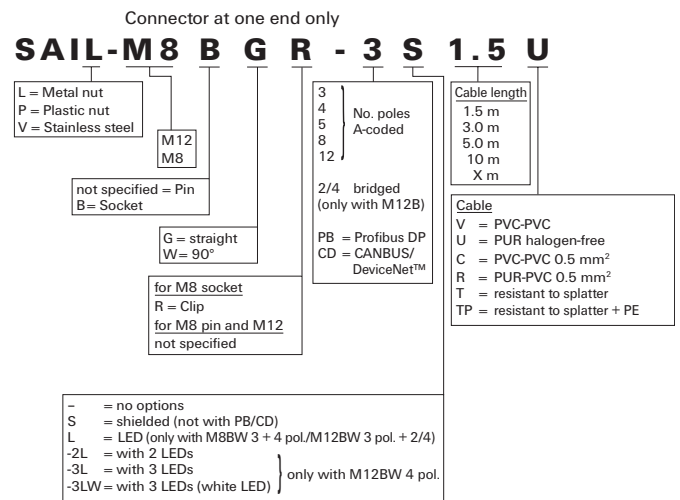
Sensor cables

Weidmüller can supply various cable lengths as indicated in the following table:

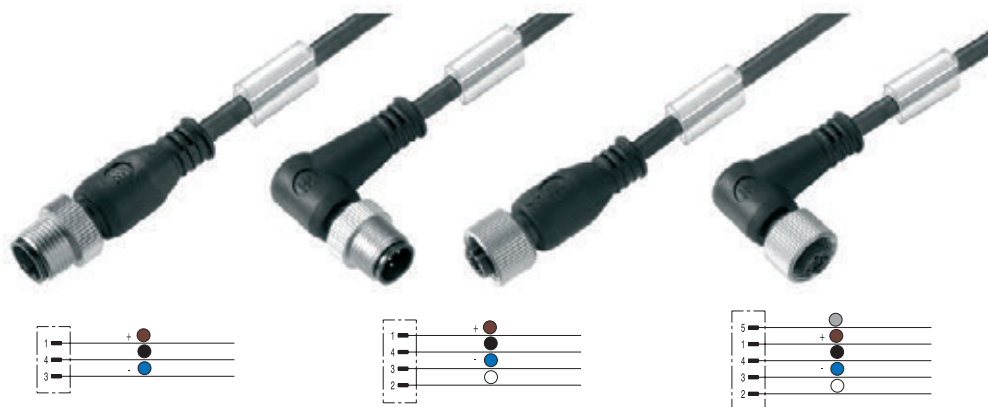
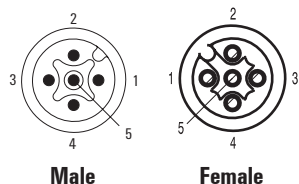
Typical cable lengths are:

• 1.5 m	• 3.0 m	• 5.0 m	• 10.0 m
---------	---------	---------	----------

Example of designation



One end without connector
M12
A-coded



Ordering data

Male, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Male, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Note	
Other versions on request	

3-pole	
SAIL-M12G-3-1.5V	1925430150
SAIL-M12G-3-1.5U	9457810150
SAIL-M12G-3-1.5UGE	1092980150
SAIL-M12G-3-1.5T	1021750150
4-pole	
SAIL-M12W-3-1.5V	1925510150
SAIL-M12W-3-1.5U	9456690150
SAIL-M12W-3-1.5UGE	1093160150
SAIL-M12W-3-1.5T	1021760150
5-pole	
SAIL-M12BG-3-1.5V	1925570150
SAIL-M12BG-3-1.5U	9457820150
SAIL-M12BG-3-1.5UGE	1092910150
SAIL-M12BG-3-1.5T	1968590150
Other versions on request	

3-pole	
SAIL-M12G-4-1.5V	1925440150
SAIL-M12G-4-1.5U	9456100150
SAIL-M12G-4-1.5UGE	1077750150
SAIL-M12G-4-1.5T	1021770150
4-pole	
SAIL-M12W-4-1.5V	1925520150
SAIL-M12W-4-1.5U	1906260150
SAIL-M12W-4-1.5UGE	1093170150
SAIL-M12W-4-1.5T	1021790150
5-pole	
SAIL-M12BG-4-1.5V	1925580150
SAIL-M12BG-4-1.5U	9457730150
SAIL-M12BG-4-1.5UGE	1092920150
SAIL-M12BG-4-1.5T	1968580150
Other versions on request	

3-pole	
SAIL-M12G-5-1.5V	1925450150
SAIL-M12G-5-1.5U	9457610150
SAIL-M12G-5-1.5UGE	1092990150
SAIL-M12G-5-1.5T	1021650150
4-pole	
SAIL-M12W-5-1.5V	1925530150
SAIL-M12W-5-1.5U	9457670150
SAIL-M12W-5-1.5UGE	1093180150
SAIL-M12W-5-1.5T	1021660150
5-pole	
SAIL-M12BG-5-1.5V	1925590150
SAIL-M12BG-5-1.5U	9457910150
SAIL-M12BG-5-1.5UGE	1092930150
SAIL-M12BG-5-1.5T	1021670150
Other versions on request	

Standard cable lengths

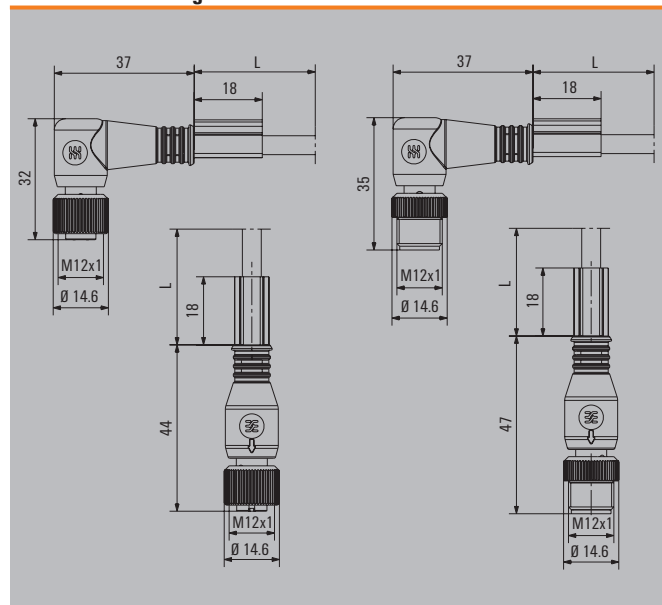
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

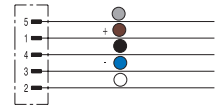
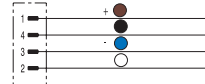
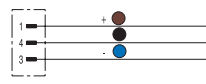
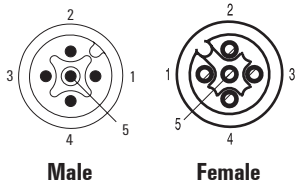
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded
with plastic threaded ring



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIP-M12G-3-1.5U	1108800150
SAIP-M12W-3-1.5U	1108670150
SAIP-M12BG-3-1.5U	1108730150
SAIP-M12BW-3-1.5U	1108770150

4-pole	
SAIP-M12G-4-1.5U	1108810150
SAIP-M12W-4-1.5U	1108680150
SAIP-M12BG-4-1.5U	1108740150
SAIP-M12BW-4-1.5U	1108780150

5-pole	
SAIP-M12G-5-1.5U	1108820150
SAIP-M12W-5-1.5U	1108690150
SAIP-M12BG-5-1.5U	1108750150
SAIP-M12BW-5-1.5U	1108790150

Standard cable lengths

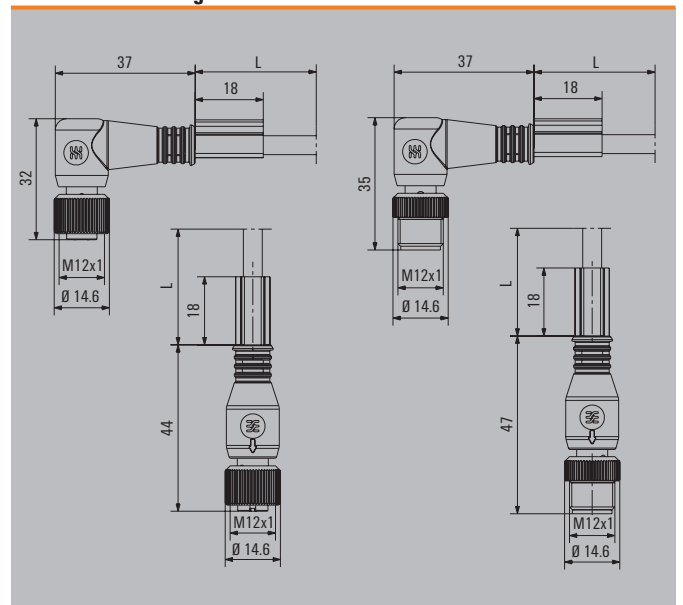
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

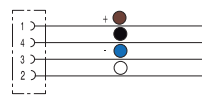
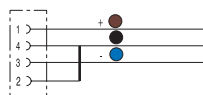
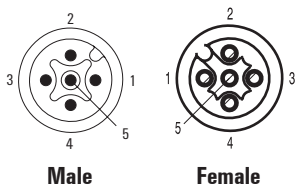
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



One end without connector
M12
A-coded
 with stainless steel thread and
 bridge between pin 2 and 4
1.4404/316L



Ordering data

Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Note	

		3-pole	
	SAIV-M12BG-2/4-1.5U	1939410150	
	SAIV-M12BW-2/4-1.5U	1939370150	

		4-pole	
	SAIV-M12BG-4-1.5U	9457950150	
	SAIV-M12BW-4-1.5U	9457960150	

Standard cable lengths

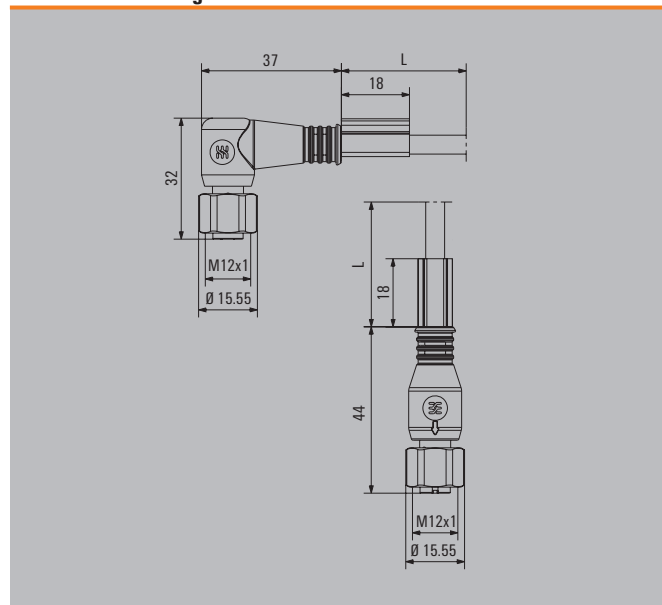
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

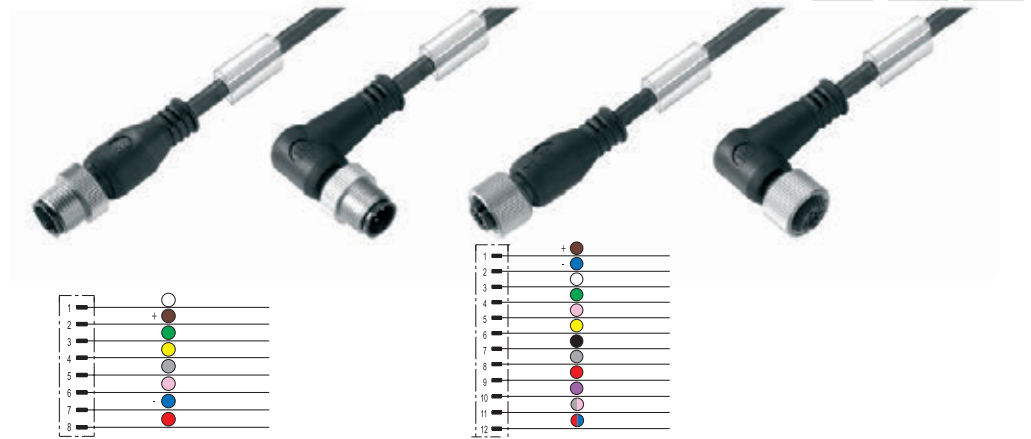
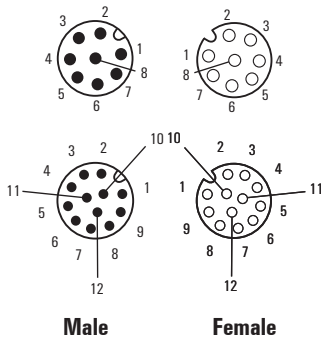
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

One end without connector
M12
A-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Male, straight - female, straight	
PUR halogen-free	1.5 m
Male, straight - female, angled	
PUR halogen-free	1.5 m
Note	

	8-pole
SAIL-M12G-8-1.5U	1279410150
SAIL-M12W-8-1.5U	1279420150
SAIL-M12BG-8-1.5U	1865870150
SAIL-M12BW-8-1.5U	1883460150
SAIL-M12GM12G-8-1.5U	1279440150
SAIL-M12GM12W-8-1.5U	1279450150
Other versions on request	

	12-pole
SAIL-M12G-12-1.5U	1311700150
SAIL-M12W-12-1.5U	1311690150
SAIL-M12BG-12-1.5U	1879710150
SAIL-M12BW-12-1.5U	1898240150

Standard cable lengths

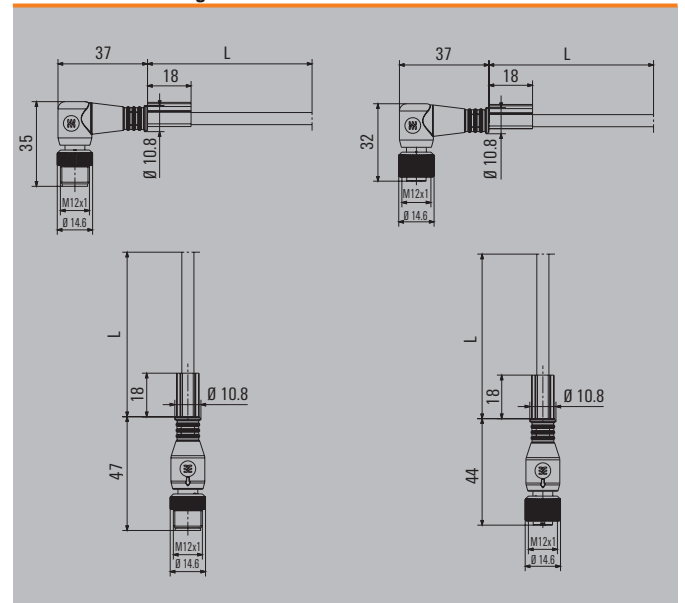
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

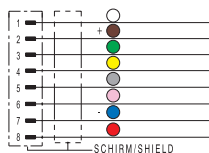
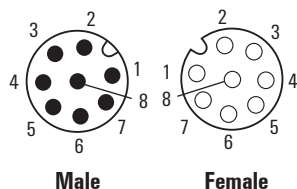
Rated current	2 A
Protection degree	IP67, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard O110 ISO group C)	30 V
Approvals	EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



One end without connector
M12
A-coded
shielded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Male, straight - female, straight	
PUR halogen-free	1.5 m
Male, straight - female, angled	
PUR halogen-free	1.5 m
Note	

8-pole	
SAIL-M12G-8S1.5U	1279430150
SAIL-M12W-8S1.5U	1276060150
SAIL-M12BG-8S1.5U	1890520150
SAIL-M12BW-8S1.5U	1275470150
SAIL-M12GM12G-8S1.5U	1279460150
SAIL-M12GM12W-8S1.5U	1279470150
Other versions on request	

Standard cable lengths

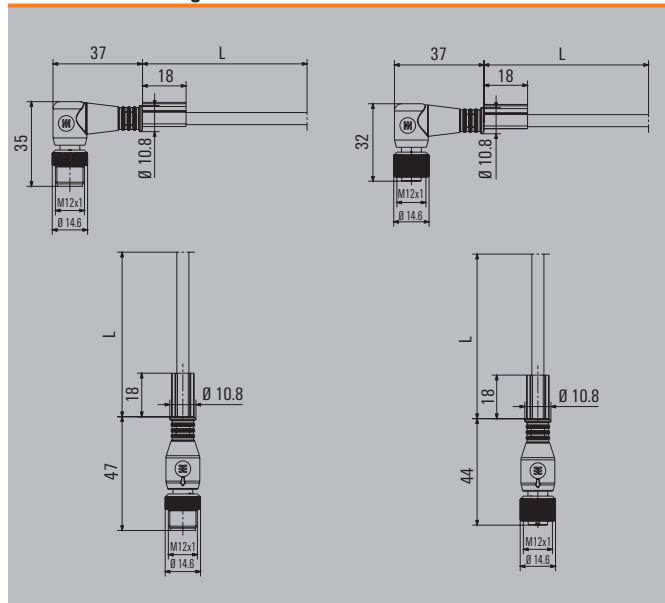
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	2 A
Protection degree	IP67, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	30 V
Approvals	EAC

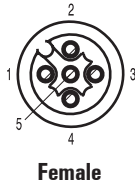
Chapter W includes additional technical specifications for the cable

Dimensioned drawing

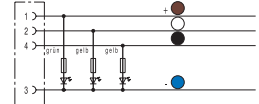
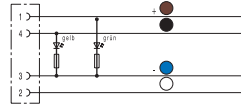
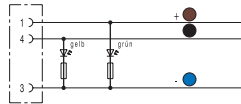


Sensor cables

One end without connector
M12 with LED
A-coded



Female



Ordering data

Female, straight	
PUR	1.5 m
PUR	2.0 m
Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Note	

2 LEDs	3-pole
SAIL-M12BG-3L1.5U	1292620150
SAIL-M12BW-3L1.5V	1925460150
SAIL-M12BW-3L1.5U	9457800150
SAIL-M12BW-3L1.5UGE	1114880150
SAIL-M12BW-3L1.5T	1004330150
Other versions on request	

2 LEDs	4-pole
SAIL-M12BG-4-2L2.0U	1094190200
SAIL-M12BW-4-2L1.5V	1925470150
SAIL-M12BW-4-2L1.5U	9456380150
SAIL-M12BW-4-2L1.5UGE	1092950150
SAIL-M12BW-4-2L1.5T	1007000150
Other versions on request	

3 LEDs	4-pole
SAIL-M12BW-4-3L1.5V	1963960150
SAIL-M12BW-4-3L1.5U	1963940150
Other versions on request	

Standard cable lengths

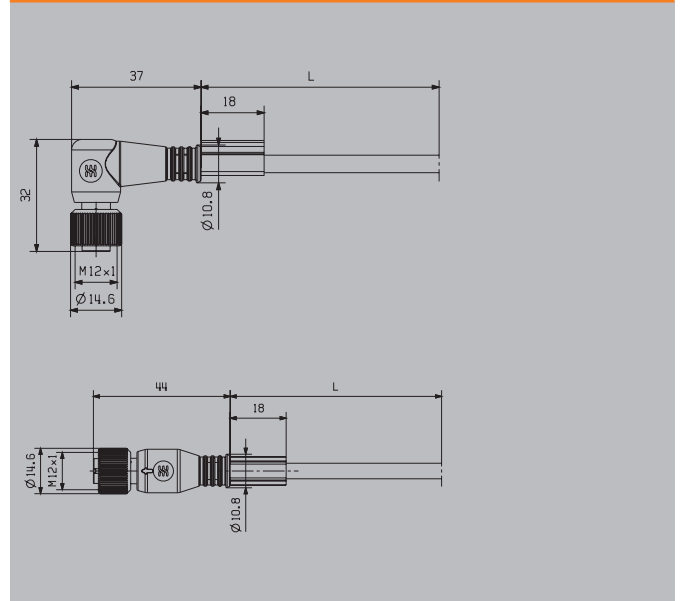
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

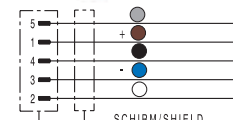
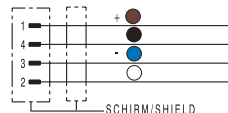
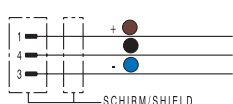
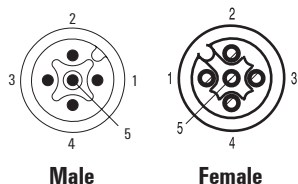
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



One end without connector
M12
A-coded
shielded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M12G-3S1.5U	1906470150
SAIL-M12W-3S1.5U	1906500150
SAIL-M12BG-3S1.5U	1867410150
SAIL-M12BW-3S1.5U	1906950150
Other versions on request	

4-pole	
SAIL-M12G-4S1.5U	1906480150
SAIL-M12W-4S1.5U	1059650150
SAIL-M12BG-4S1.5U	1812540150
SAIL-M12BW-4S1.5U	1808970150
Other versions on request	

5-pole	
SAIL-M12G-5S1.5U	1926690150
SAIL-M12W-5S1.5U	1906520150
SAIL-M12BG-5S1.5U	9456140150
SAIL-M12BW-5S1.5U	1906540150
Other versions on request	

Standard cable lengths

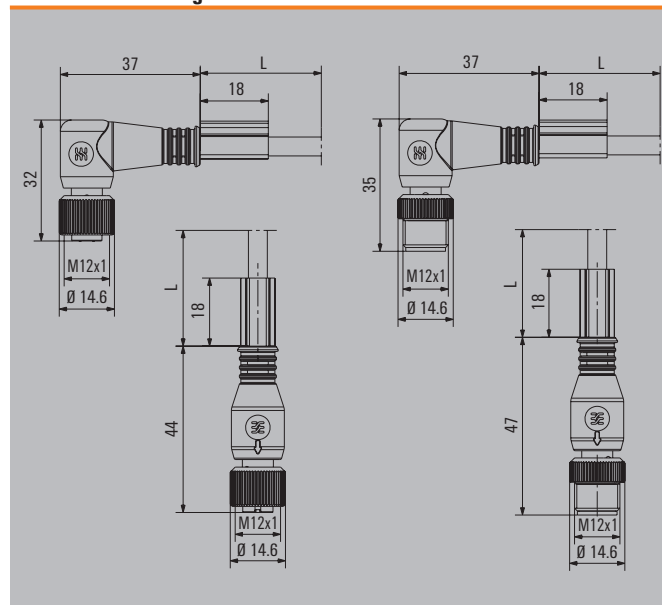
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing

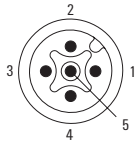


Sensor cables

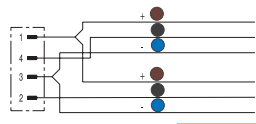
**One end without connector
M12 twin cabling**



B



Male



Ordering data

Male straight - open ended	
PUR halogen-free	1.5 m
Note	

	3-pole
SAIL-ZW-3-1.5U	1964310150



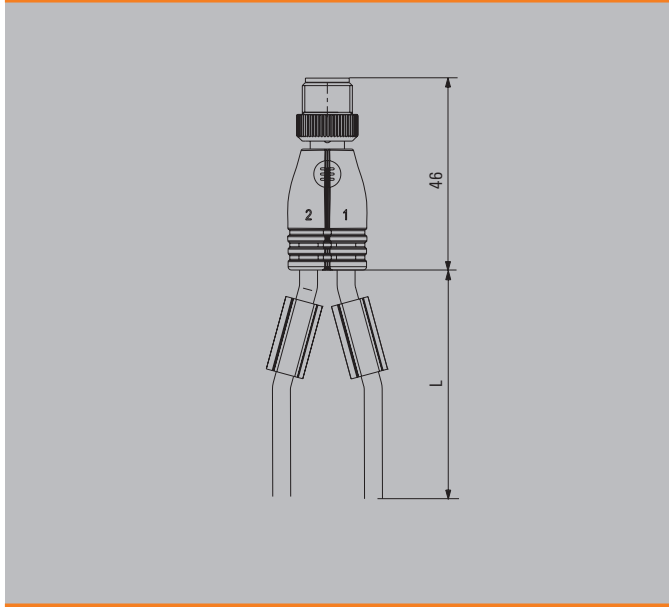
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

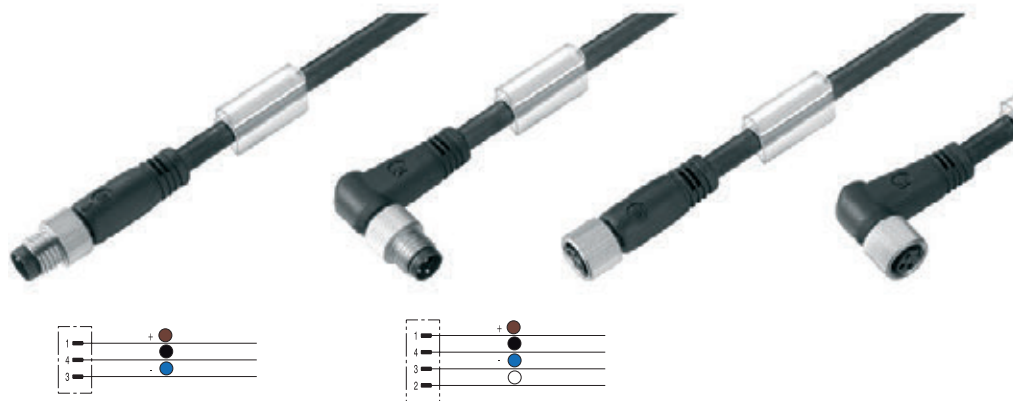
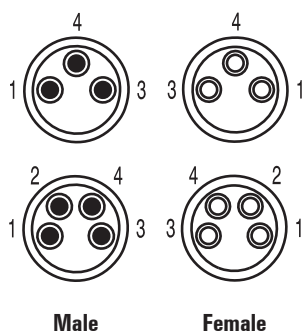
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	CSA; cULus; EAC

Dimensioned drawing



Chapter W includes additional technical specifications for the cable

One end without connector
M8



Ordering data

Male, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

3-pole	
SAIL-M8G-3-1.5V	1927230150
SAIL-M8G-3-1.5U	1824590150
SAIL-M8W-3-1.5V	1927310150
SAIL-M8W-3-1.5U	1857550150
SAIL-M8BG-3-1.5V	1927240150
SAIL-M8BG-3-1.5U	9457450150
SAIL-M8BG-3-1.5UGE	1093190150
SAIL-M8BW-3-1.5V	1927320150
SAIL-M8BW-3-1.5U	9457380150
SAIL-M8BW-3-1.5UGE	1093220150
Other versions on request	

4-pole	
SAIL-M8G-4-1.5V	1927250150
SAIL-M8G-4-1.5U	1906270150
SAIL-M8W-4-1.5V	1927330150
SAIL-M8W-4-1.5U	1857560150
SAIL-M8BG-4-1.5V	1927260150
SAIL-M8BG-4-1.5U	9457850150
SAIL-M8BG-4-1.5UGE	1093200150
SAIL-M8BW-4-1.5V	1927340150
SAIL-M8BW-4-1.5U	9456150150
SAIL-M8BW-4-1.5UGE	1093240150
Other versions on request	

Standard cable lengths

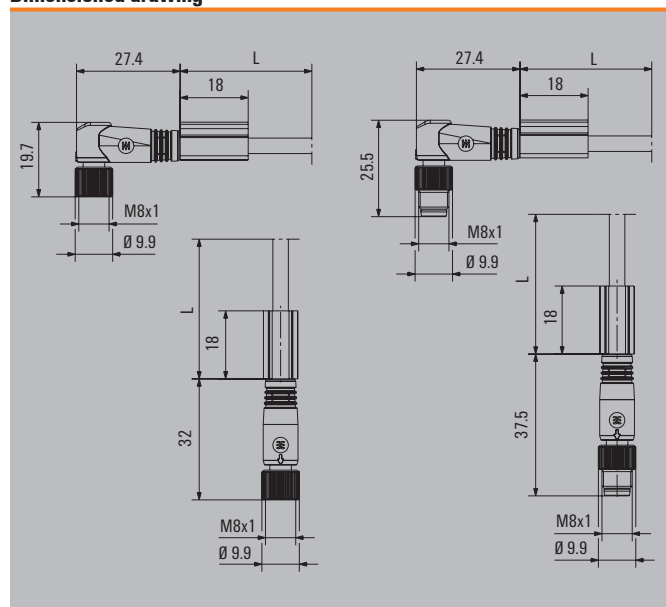
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	cULus; EAC

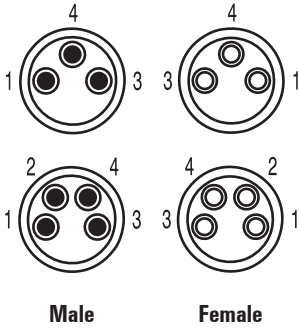
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

One end without connector
M8
Snap connection



Ordering data

Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Note	
Other versions on request	

3-pole	
SAIL-M8BGR-3-1.5V	1948710150
SAIL-M8BGR-3-1.5U	1827020150
SAIL-M8BWR-3-1.5V	1948720150
SAIL-M8BWR-3-1.5U	1827010150
Other versions on request	

4-pole	
SAIL-M8BGR-4-1.5V	1948730150
SAIL-M8BGR-4-1.5U	1948530150
SAIL-M8BWR-4-1.5V	1948740150
SAIL-M8BWR-4-1.5U	1948540150
Other versions on request	

Standard cable lengths

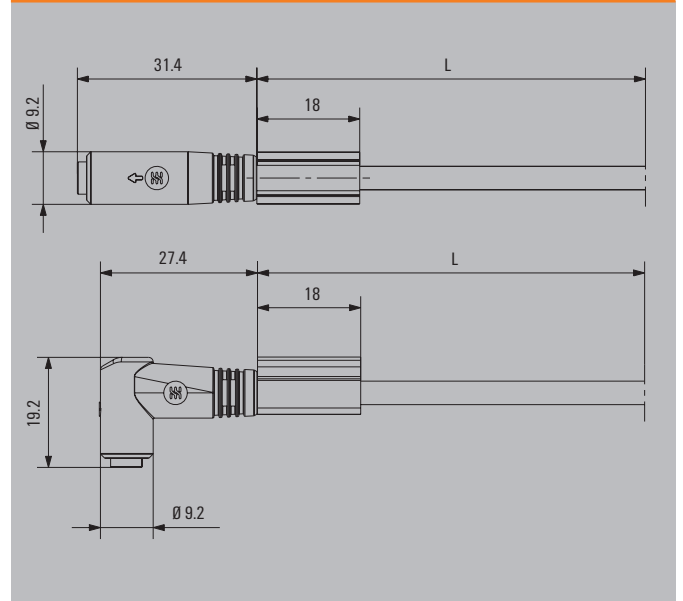
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

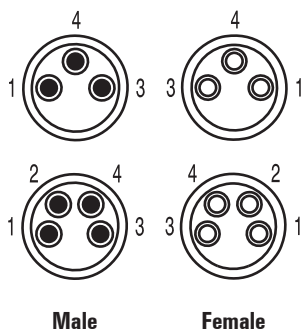
Rated current	4 A
Protection degree	IP65 (in plugged condition)
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	cULus; EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



One end without connector
M8
shielded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Note	

	3-pole
SAIL-M8G-3S1.5U	1906560150
SAIL-M8W-3S1.5U	1906580150
SAIL-M8BG-3S1.5U	1906600150
SAIL-M8BW-3S1.5U	1906620150
Other versions on request	

	4-pole
SAIL-M8G-4S1.5U	1906570150
SAIL-M8W-4S1.5U	1906590150
SAIL-M8BG-4S1.5U	1906610150
SAIL-M8BW-4S1.5U	1906630150
Other versions on request	

Standard cable lengths

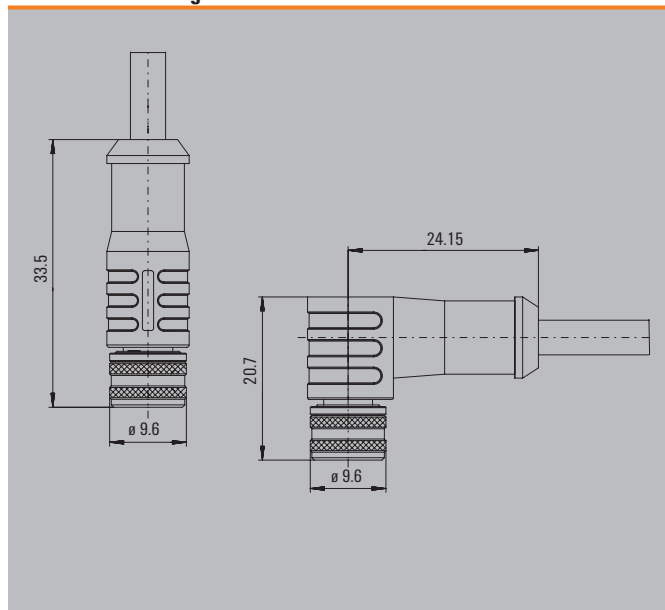
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

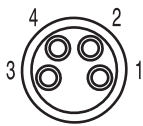
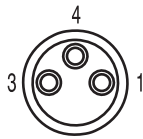
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

One end without connector
M8
with plastic threaded ring



Female



Ordering data

		3-pole		4-pole	
Female, straight					
PUR halogen-free	1.5 m	SAIP-M8BG-3-1.5U	1382970150	SAIP-M8BG-4-1.5U	1382990150
Female, angled					
PUR halogen-free	1.5 m	SAIP-M8BW-3-1.5U	1382980150	SAIP-M8BW-4-1.5U	1383000150
Note					

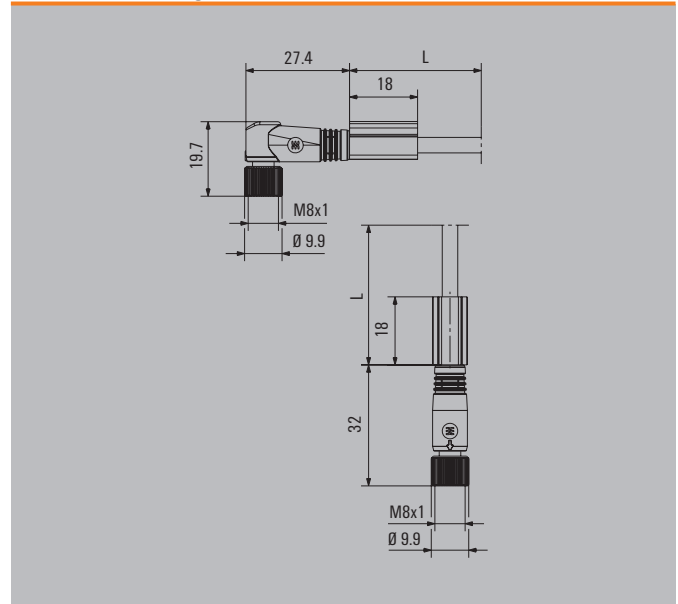
Standard cable lengths

All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

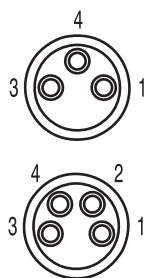
Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	cULus; EAC

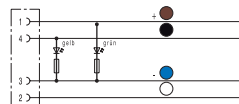
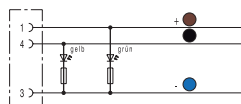
Dimensioned drawing



One end without connector
M8 with LED



Female



Ordering data

Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

2 LEDs

3-pole

SAIL-M8BW-3L1.5V	1927350150
SAIL-M8BW-3L1.5U	9457460150
SAIL-M8BW-3L1.5UGE	1093210150
Other versions on request	

2 LEDs

4-pole

SAIL-M8BW-4L1.5V	1927360150
SAIL-M8BW-4L1.5U	1906400150
SAIL-M8BW-4L1.5UGE	1093230150
Other versions on request	

Standard cable lengths

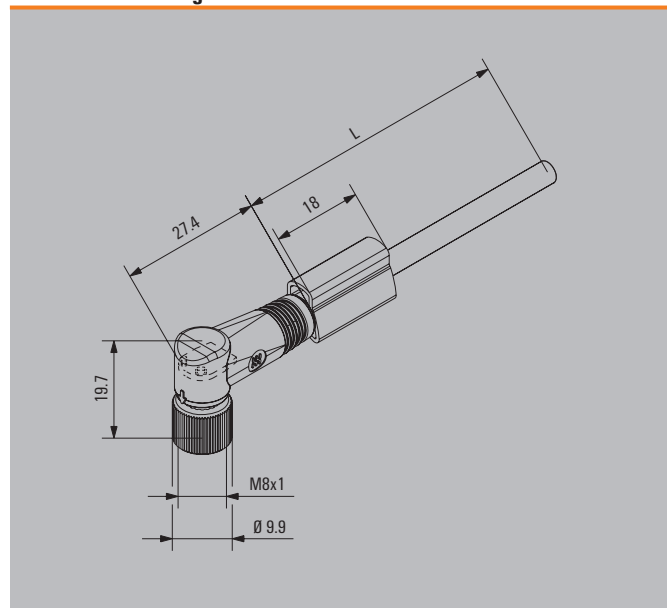
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	CSA; EAC; UL

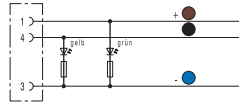
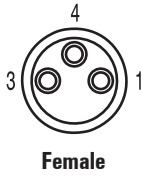
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

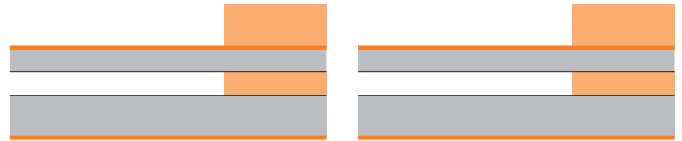
One end without connector
 M8 with LED
 with plastic threaded ring



Ordering data

Female, angled	
PUR free from halogens, LED	1.5 m
Note	

	3-pole
SAIP-M8BW-3L1.5U	1383010150



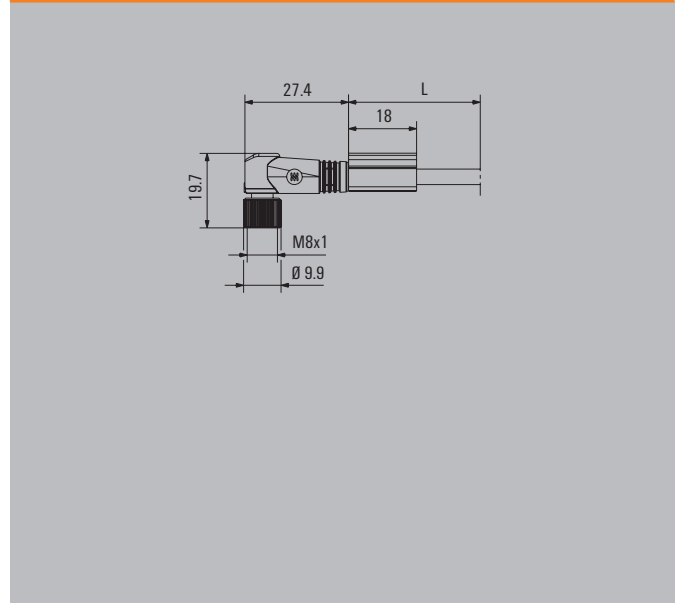
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

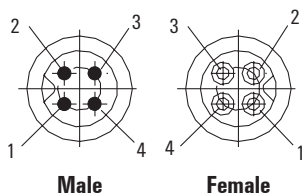
Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC, UL

Dimensioned drawing



One end without connector
M5



Ordering data

		3-pole	4-pole		
Male, straight					
PUR halogen-free	1.5 m	SAIL-M5G-3P-1.5U	1854060150	SAIL-M5G-4P-1.5U	1871700150
Male, angled					
PUR halogen-free	1.5 m	SAIL-M5W-3P-1.5U	1873280150	SAIL-M5W-4P-1.5U	1873240150
Female, straight					
PUR halogen-free	1.5 m	SAIL-M5BG-3P-1.5U	1873290150	SAIL-M5BG-4P-1.5U	1873250150
Female, angled					
PUR halogen-free	1.5 m	SAIL-M5BW-3P-1.5U	1873260150	SAIL-M5BW-4P-1.5U	1873270150
Note		Other versions on request		Other versions on request	

Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.

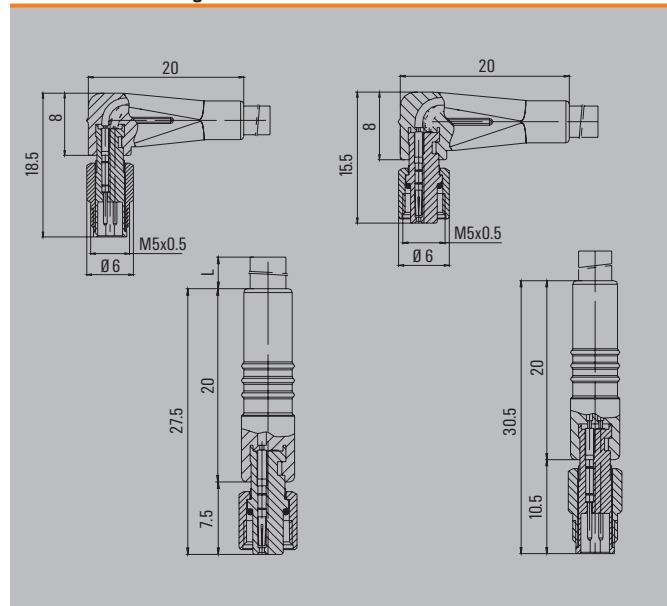
1.5 m	xxxxxx0150
3.0 m	xxxxxx0300
5.0 m	xxxxxx0500
10.0 m	xxxxxx1000

Technical data

Rated current	1 A
Protection degree	IP67, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

**One end without connector
M16**



Female

Ordering data

		12-pole			
PUR	1.5 m	SAIL-M16BW-12-1.5U	1259010150		
Note					

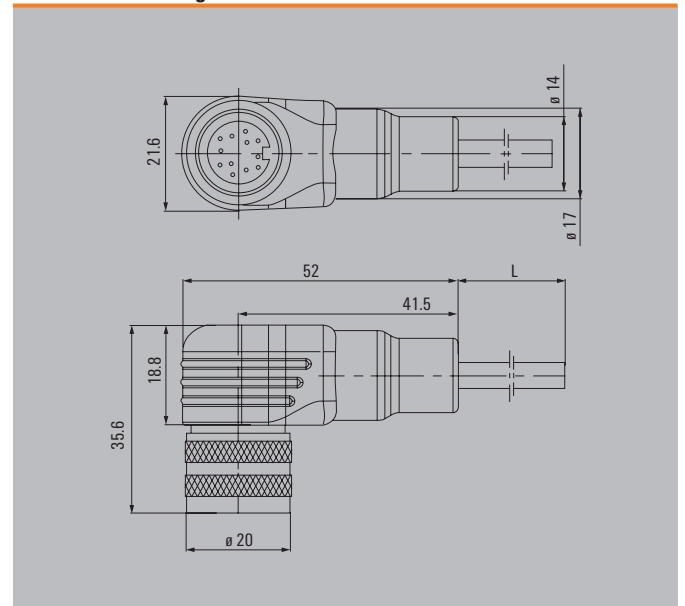
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	3 A
Protection degree	IP67
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25 ... +70 °C
Rated voltage	60 V
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Dimensioned drawing



Connecting cables

B

M12



M8



M8 Snap connection



Twin cabling



Many applications with sensors require suitable connecting cables. The connecting cables are available in different designs.

The M12/M8 plug-in connectors are available in straight and 90° versions and also with LEDs.

- When plugged in, the M12 connecting cables comply with IP 68 ingress protection class
- The cable sheathing is black and made of polyurethane (PUR or PVC)
- The connecting cables are supplied with two marking sleeves

Corresponding tags TM-I 18 for the marking sleeves can be found in chapter I.

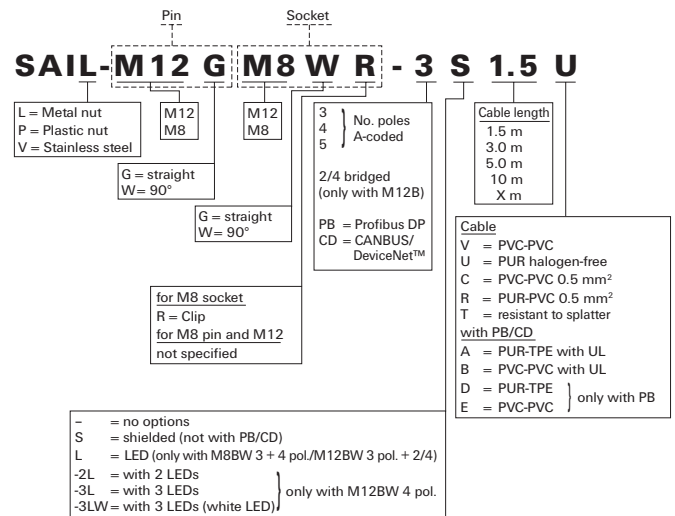
Sensor cables

Weidmüller can supply various cable lengths as indicated in the following table:

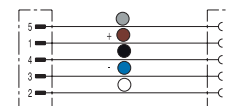
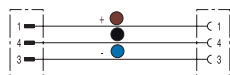
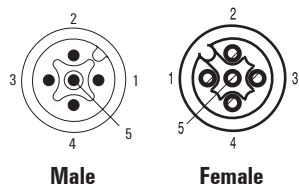
Typical cable lengths are:

• 1.5 m	• 3.0 m	• 5.0 m	• 10.0 m
---------	---------	---------	----------

Example of designation



Connecting cables
M12 to M12
A-coded



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Male, angled - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m

3-pole	
SAIL-M12GM12G-3-1.5V	1925300150
SAIL-M12GM12G-3-1.5U	9457230150
SAIL-M12GM12G-3-1.5UGE	1093010150
SAIL-M12GM12G-3-1.5T	1021710150
4-pole	
SAIL-M12GM12G-4-1.5V	1925310150
SAIL-M12GM12G-4-1.5U	1906300150
SAIL-M12GM12G-4-1.5UGE	1093020150
SAIL-M12GM12G-4-1.5T	1021730150
5-pole	
SAIL-M12GM12G-5-1.5V	1925320150
SAIL-M12GM12G-5-1.5U	9457340150
SAIL-M12GM12G-5-1.5UGE	1093030150
SAIL-M12GM12G-5-1.5T	1011970150
Male, straight - Female, angled	
SAIL-M12GM12W-3-1.5V	1925340150
SAIL-M12GM12W-3-1.5U	9457390150
SAIL-M12GM12W-3-1.5UGE	1093050150
SAIL-M12GM12W-3-1.5T	1021720150
Male, angled - Female, angled	
SAIL-M12WM12W-3-1.5V	1925380150
SAIL-M12WM12W-3-1.5U	1815670150

3-pole	
SAIL-M12GM12G-3-1.5V	1925300150
SAIL-M12GM12G-3-1.5U	9457230150
SAIL-M12GM12G-3-1.5UGE	1093010150
SAIL-M12GM12G-3-1.5T	1021710150
4-pole	
SAIL-M12GM12G-4-1.5V	1925310150
SAIL-M12GM12G-4-1.5U	1906300150
SAIL-M12GM12G-4-1.5UGE	1093020150
SAIL-M12GM12G-4-1.5T	1021730150
5-pole	
SAIL-M12GM12G-5-1.5V	1925320150
SAIL-M12GM12G-5-1.5U	9457340150
SAIL-M12GM12G-5-1.5UGE	1093030150
SAIL-M12GM12G-5-1.5T	1011970150
Male, straight - Female, angled	
SAIL-M12GM12W-3-1.5V	1925340150
SAIL-M12GM12W-3-1.5U	9457390150
SAIL-M12GM12W-3-1.5UGE	1093050150
SAIL-M12GM12W-3-1.5T	1021720150
Male, angled - Female, angled	
SAIL-M12WM12W-3-1.5V	1925380150
SAIL-M12WM12W-3-1.5U	1815670150

3-pole	
SAIL-M12GM12G-3-1.5V	1925300150
SAIL-M12GM12G-3-1.5U	9457230150
SAIL-M12GM12G-3-1.5UGE	1093010150
SAIL-M12GM12G-3-1.5T	1021710150
4-pole	
SAIL-M12GM12G-4-1.5V	1925310150
SAIL-M12GM12G-4-1.5U	1906300150
SAIL-M12GM12G-4-1.5UGE	1093020150
SAIL-M12GM12G-4-1.5T	1021730150
5-pole	
SAIL-M12GM12G-5-1.5V	1925320150
SAIL-M12GM12G-5-1.5U	9457340150
SAIL-M12GM12G-5-1.5UGE	1093030150
SAIL-M12GM12G-5-1.5T	1011970150
Male, straight - Female, angled	
SAIL-M12GM12W-3-1.5V	1925340150
SAIL-M12GM12W-3-1.5U	9457390150
SAIL-M12GM12W-3-1.5UGE	1093050150
SAIL-M12GM12W-3-1.5T	1021720150
Male, angled - Female, angled	
SAIL-M12WM12W-3-1.5V	1925380150
SAIL-M12WM12W-3-1.5U	1815670150

Standard cable lengths

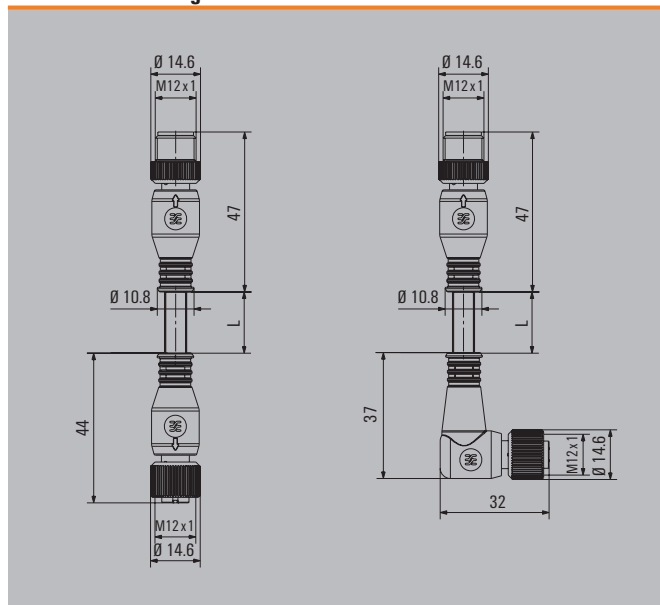
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

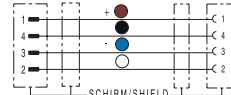
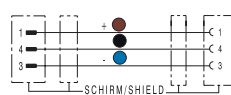
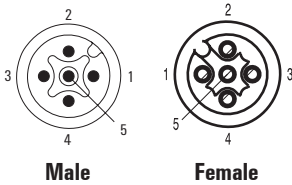
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

Connecting cables
M12 to M12
A-coded
shielded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M12GM12G-3S1.5U	1058490150
SAIL-M12GM12W-3S1.5U	1059470150
SAIL-M12WM12W-3S1.5U	1059720150
Other versions on request	

4-pole	
SAIL-M12GM12G-4S1.5U	1058500150
SAIL-M12GM12W-4S1.5U	1059480150
SAIL-M12WM12W-4S1.5U	1059730150
Other versions on request	

5-pole	
SAIL-M12GM12G-5S1.5U	1058510150
SAIL-M12GM12W-5S1.5U	1059540150
SAIL-M12WM12W-5S1.5U	1059740150
Other versions on request	

Standard cable lengths

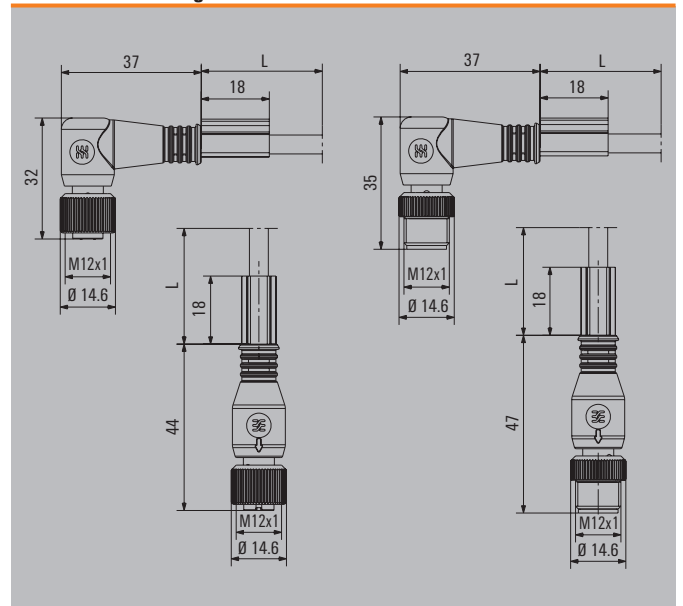
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

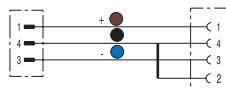
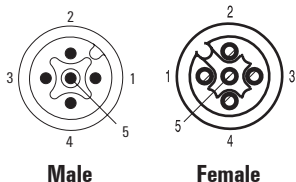
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cables
M12 to M12
A-coded
Bridge between pin 2 and 4



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

3-pole		
SAIL-M12GM12G-2/4-1.5V		1925330150
SAIL-M12GM12G-2/4-1.5U		9456990150
SAIL-M12GM12G-2/4-1.5UGE		1093000150
<hr/>		
SAIL-M12GM12W-2/4-1.5V		1925370150
SAIL-M12GM12W-2/4-1.5U		9457890150
SAIL-M12GM12W-2/4-1.5UGE		1093040150
Other versions on request		

Standard cable lengths

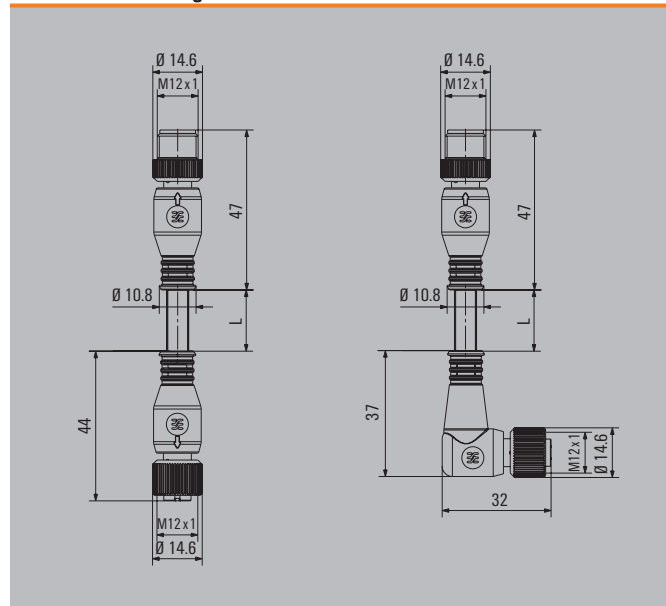
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

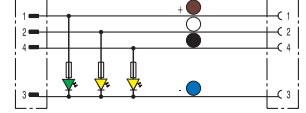
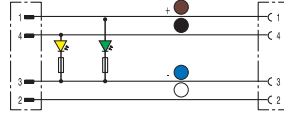
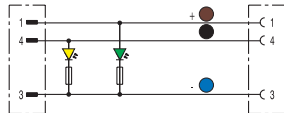
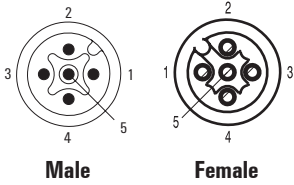
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

Connecting cables
M12 to M12 with LED
A-coded



Ordering data

Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Resistant to welding beads	1.5 m
Note	

2 LEDs	3-pole
SAIL-M12GM12W-3L1.5V	1925410150
SAIL-M12GM12W-3L1.5U	9457790150
SAIL-M12GM12W-3L1.5T	1004320150
Other versions on request	

2 LEDs	4-pole
SAIL-M12GM12W-4-2L1.5V	1925420150
SAIL-M12GM12W-4-2L1.5U	1906410150
SAIL-M12GM12W-4-2L1.5T	1004310150
Other versions on request	

3 LEDs	4-pole
SAIL-M12GM12W-4-3L1.5V	1963930150
SAIL-M12GM12W-4-3L1.5U	1963910150
SAIL-M12GM12W-4-3LW1.5UGE	1093060150
SAIL-M12GM12W-4-3LW1.5T	1020930150
Other versions on request	

Standard cable lengths

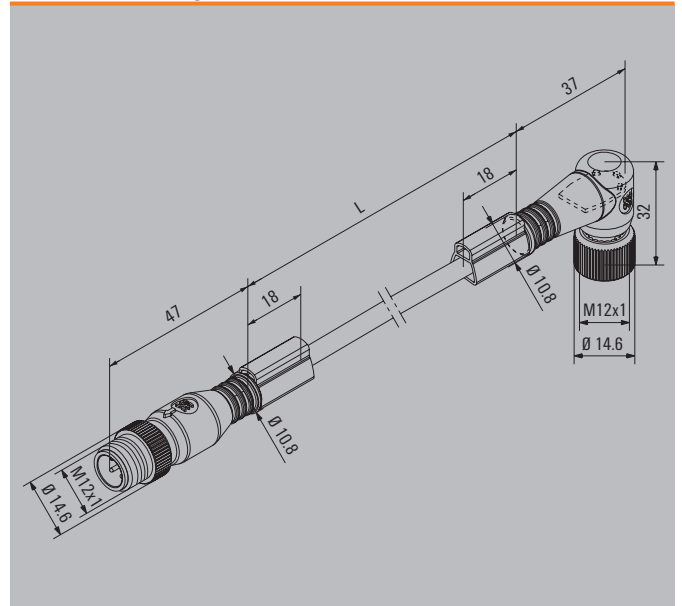
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

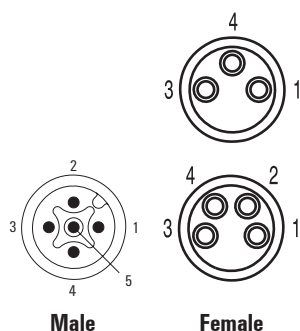
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	EAC, UL

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cables
M12 to M8



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M12GM8G-3-1.5V	1938170150
SAIL-M12GM8G-3-1.5U	9457770150
SAIL-M12GM8W-3-1.5V	1938180150
SAIL-M12GM8W-3-1.5U	9457980150
SAIL-M12WM8W-3-1.5V	1938190150
SAIL-M12WM8W-3-1.5U	1906330150
Other versions on request	

4-pole	
SAIL-M12GM8G-4-1.5V	1938200150
SAIL-M12GM8G-4-1.5U	9456660150
SAIL-M12GM8W-4-1.5V	1938210150
SAIL-M12GM8W-4-1.5U	9456670150
SAIL-M12WM8W-4-1.5V	1938220150
SAIL-M12WM8W-4-1.5U	1906340150
Other versions on request	

Standard cable lengths

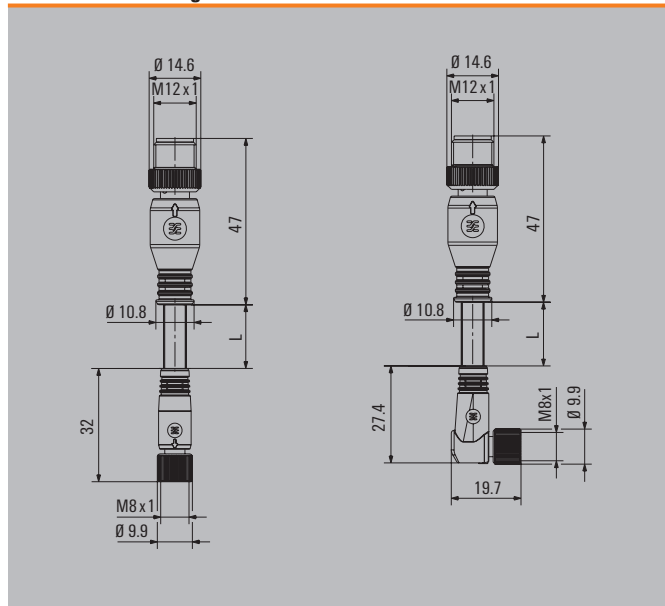
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	EAC

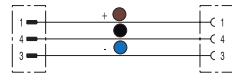
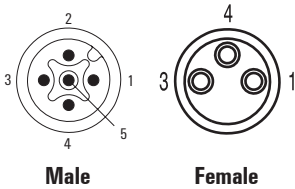
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

Connecting cables
M12 to M8
snap-on connection



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

	3-pole
SAIL-M12GM8GR-3-1.5U	1984530150
SAIL-M12GM8WR-3-1.5U	9457570150
SAIL-M12GM8WR-3-1.5UGE	1093150150
Other versions on request	

Standard cable lengths

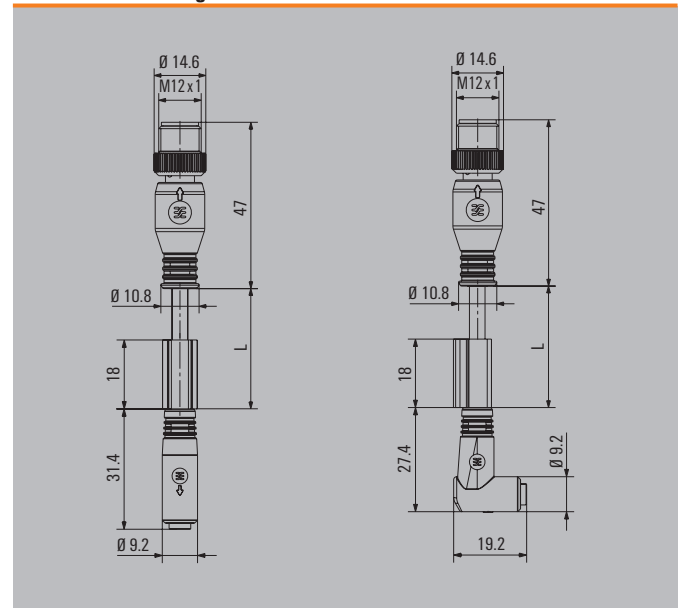
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

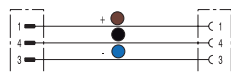
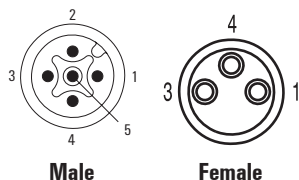
Rated current	4 A
Protection degree	IP65 (in plugged condition)
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cable
M12 to M8
with plastic threaded ring



Ordering data

Male, straight - Female, angled	
PUR halogen-free	1.5 m
Note	

	3-pole
SAIP-M12GM8W-3-1.5U	1220620150

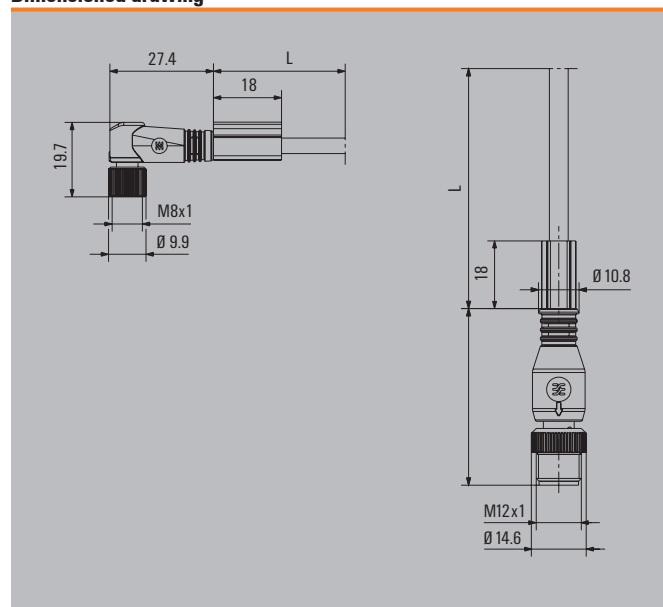
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

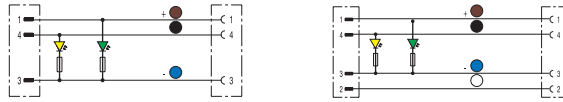
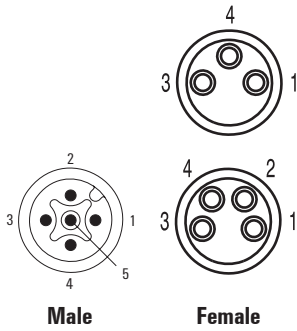
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Dimensioned drawing



Sensor cables

**Connecting cables
M12 to M8 with LED**



Ordering data

Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

2 LEDs	3-pole
SAIL-M12GM8W-3L1.5V	1962290150
SAIL-M12GM8W-3L1.5U	9457760150
SAIL-M12GM8W-3L1.5UGE	1093110150
Other versions on request	

2 LEDs	4-pole
SAIL-M12GM8W-4L1.5V	1962300150
SAIL-M12GM8W-4L1.5U	1906430150
SAIL-M12GM8W-4L1.5UGE	1093130150
Other versions on request	

Standard cable lengths

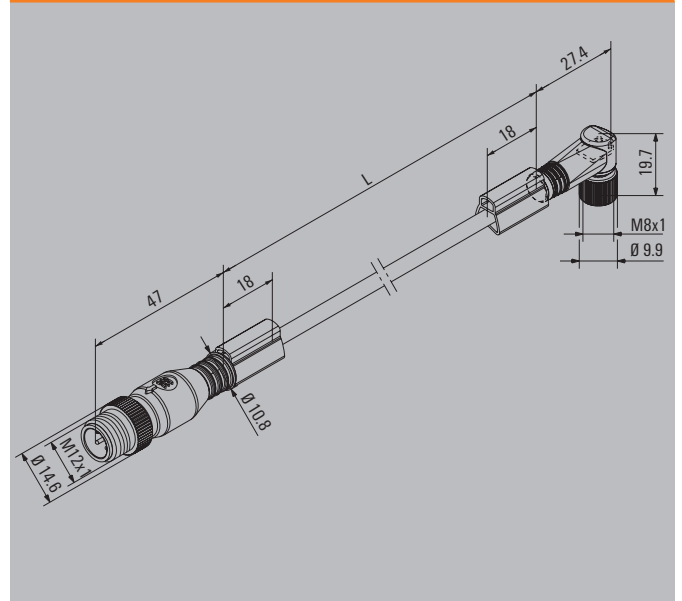
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

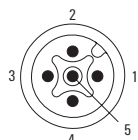
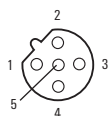
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cables
M12 to USB
A-coded
B-coded
shielded



Male

Female



Ordering data

Socket, straight - USB	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
Pin, straight - USB	
PUR halogen-free	3.0 m
Note	

5-pole	
SAIL-M12BG-USB-3.0U	1288820300

5-pole	
SAIL-M12BG-B-USB-1.5U	1962800150

5-pole	
SAIL-M12G-USB-3.0U	1268520000

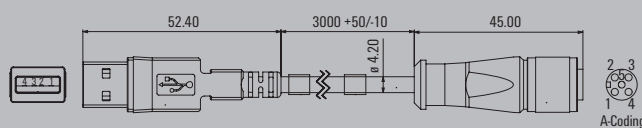
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	1 A
Protection degree	IP67
Core cross-section	
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Dimensioned drawing



1288820300 + 1962800150

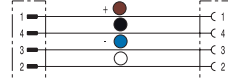
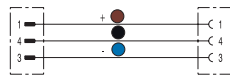
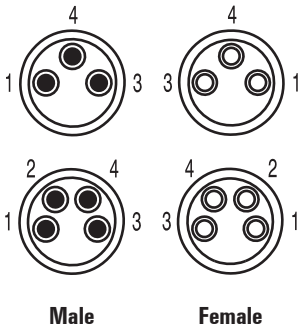
USB-A Connector	Signal	M12 Connector	Signal
Pin 1	+ 5V	Pin 1	+ 5V
Pin 2	- Data	Pin 2	Data-N
Pin 3	+ Data	Pin 3	Ground
Pin 4	Ground	Pin 4	Data-P
Connector Shielding	Shield	Pin 5	Shield

1268520000

USB-A Connector	Signal	M12 Connector	Signal
Pin 1	+ 5V	Pin 1	Data-N
Pin 2	- Data	Pin 2	+ 5V
Pin 3	+ Data	Pin 3	Not connected
Pin 4	Ground	Pin 4	Data-P
Connector Shielding	Shield	Pin 5	Ground

Sensor cables

Connecting cables
M8 to M8



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M8GM8G-3-1.5V	1927150150
SAIL-M8GM8G-3-1.5U	1824570150
SAIL-M8GM8G-3-1.5UGE	1104470150
Male, straight - Female, angled	
SAIL-M8GM8W-3-1.5V	1927170150
SAIL-M8GM8W-3-1.5U	1824580150
Male, angled - Female, angled	
SAIL-M8WM8W-3-1.5V	1927210150
SAIL-M8WM8W-3-1.5U	1857670150
Other versions on request	

4-pole	
SAIL-M8GM8G-4-1.5V	1927160150
SAIL-M8GM8G-4-1.5U	1880470150
SAIL-M8GM8G-4-1.5UGE	1469360150
Male, straight - Female, angled	
SAIL-M8GM8W-4-1.5V	1927180150
SAIL-M8GM8W-4-1.5U	1857660150
Male, angled - Female, angled	
SAIL-M8WM8W-4-1.5V	1927220150
SAIL-M8WM8W-4-1.5U	1857680150
Other versions on request	

Standard cable lengths

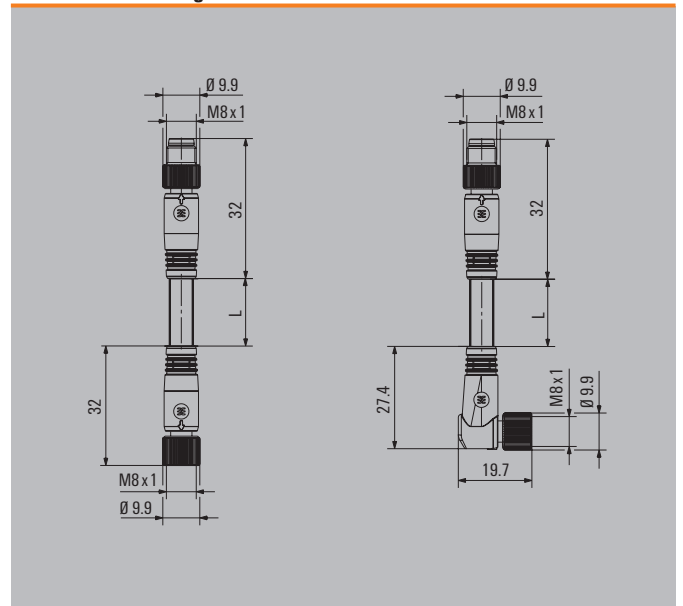
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

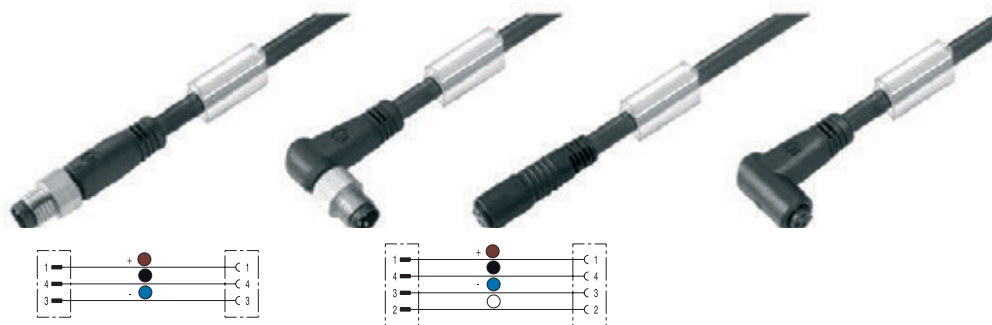
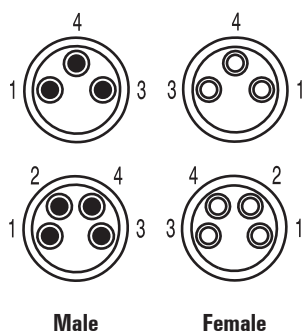
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	cULus; EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cables
M8 to M8
snap-on connection



Ordering data

Male, straight - Female, straight	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M8GM8GR-3-1.5V	1948650150
SAIL-M8GM8GR-3-1.5U	1948470150
SAIL-M8GM8WR-3-1.5V	1948660150
SAIL-M8GM8WR-3-1.5U	1948480150
SAIL-M8WM8WR-3-1.5V	1948670150
SAIL-M8WM8WR-3-1.5U	1948490150
Other versions on request	

4-pole	
SAIL-M8GM8GR-4-1.5V	1948680150
SAIL-M8GM8GR-4-1.5U	1948500150
SAIL-M8GM8WR-4-1.5V	1948690150
SAIL-M8GM8WR-4-1.5U	1948510150
SAIL-M8WM8WR-4-1.5V	1948700150
SAIL-M8WM8WR-4-1.5U	1948520150
Other versions on request	

Standard cable lengths

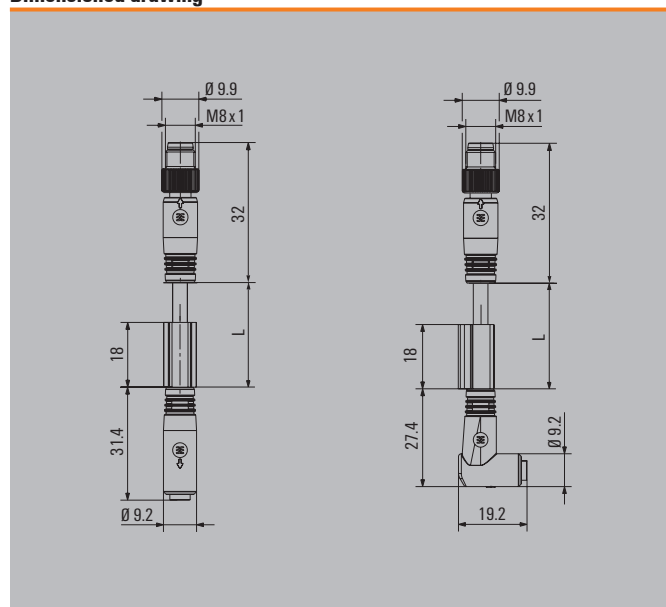
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65 (in plugged condition)
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	cULus; EAC

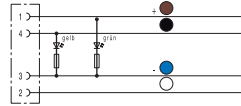
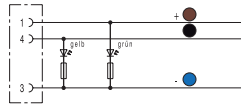
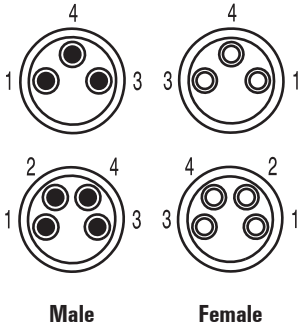
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

Connecting cables
M8 to M8 with LED



Ordering data

Male, straight - Female, angled	
PVC	1.5 m
PUR halogen-free	1.5 m
Note	

2 LEDs

3-pole

SAIL-M8GM8W-3L1.5V	1927190150
SAIL-M8GM8W-3L1.5U	1877250150
Other versions on request	

2 LEDs

4-pole

SAIL-M8GM8W-4L1.5V	1927200150
SAIL-M8GM8W-4L1.5U	1906450150
Other versions on request	

Standard cable lengths

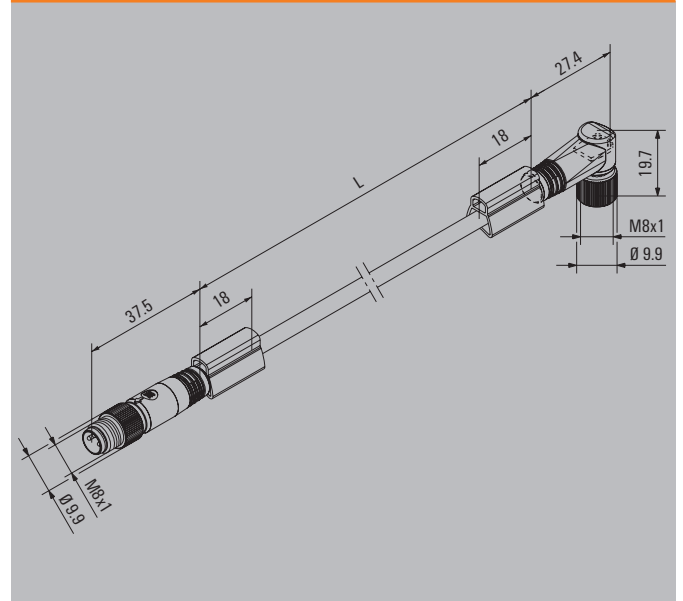
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	cULus; EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Twin sensor cables with three plug-in connectors: M12/M8

Twin sensor cables



In general, two sensor cables can be fed with an M12 connector to the distributor. A wide variety of wiring arrangements are possible with these cables. All M12 and M8 connections can be implemented.

Weidmüller has all the necessary components available. With mechanical engineering, this type of application is an exception.

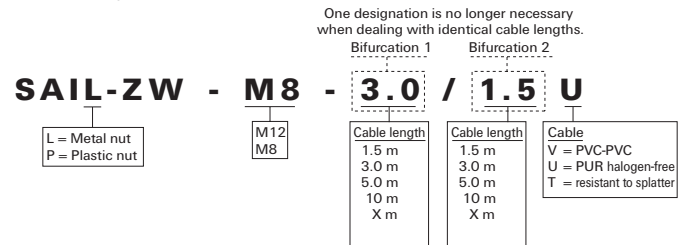
4-pole connection

In the SAI distributor, the 4 pole socket is fitted with pins 1, 3, 4 and 5. The 4 pole SAI plug is fitted with pins 1, 2, 3 and 4. This corresponds to market standards.

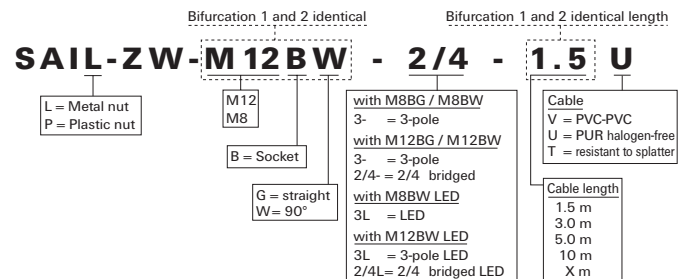
Special care must be taken when wiring combinations of 4-pole plugs and distributors.

Designation

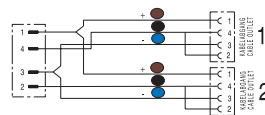
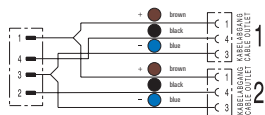
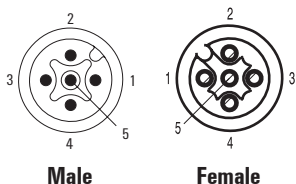
Twin plug
Bifurcation open for "1" and "2" ends



Twin plug
Connecting cable



Connecting cable
M12 to M12 twin cabling
Bridge between pin 2 and 4



Ordering data

Male straight - 2 females straight	
PUR halogen-free	1.5 m
Male straight - 2 females angled	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-ZW-M12BG-3-1.5U	1005460150
SAIL-ZW-M12BW-3-1.5U	1005270150

4-pole	
SAIL-ZW-M12BG-2/4-1.5U	1812550150
SAIL-ZW-M12BW-2/4-1.5U	1964280150

Standard cable lengths

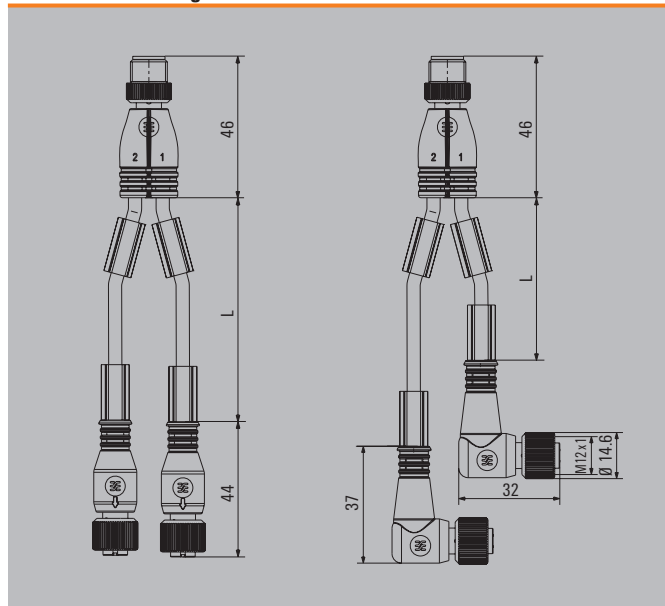
All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	250 V (3- and 4-pole) / 125 V (5-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	CSA; cULus; EAC

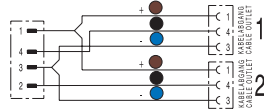
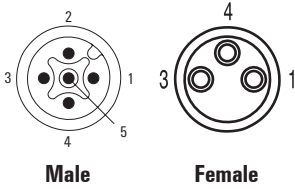
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

Connecting cable
M12 to M8 twin cabling



Ordering data

Male straight - 2 females straight	
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Male straight - 2 females angled	
PUR halogen-free	1.5 m
PUR halogen-free yellow	1.5 m
Note	

3-pole	
SAIL-ZW-M8BG-3-1.5U	9457490150
SAIL-ZW-M8BG-3-1.5UGE	1093250150
SAIL-ZW-M8BW-3-1.5U	1964300150
SAIL-ZW-M8BW-3-1.5UGE	1093260150
Other versions on request	

Standard cable lengths

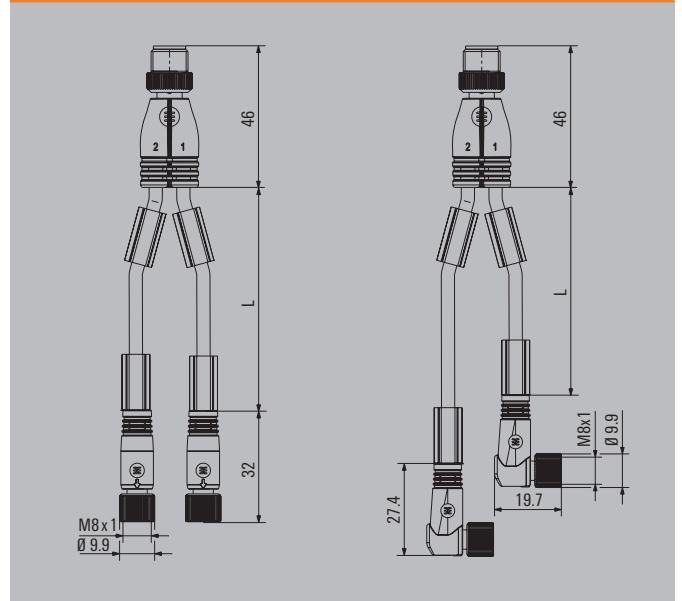
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

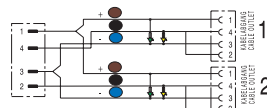
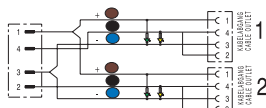
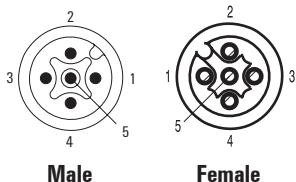
Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	60 V (3-pole) / 30 V (4-pole)
Approvals	EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Connecting cable
M12 to M12 twin cabling with LED
Bridge between pin 2 and 4



Ordering data

Male straight - 2 females angled	
PUR halogen-free	1.5 m
Note	

2 LEDs	3-pole
SAIL-ZW-M12BW-2/4L1.5U	1964290150

2 LEDs	3-pole
SAIL-ZW-M12BW-3L1.5U	1912110150

Standard cable lengths

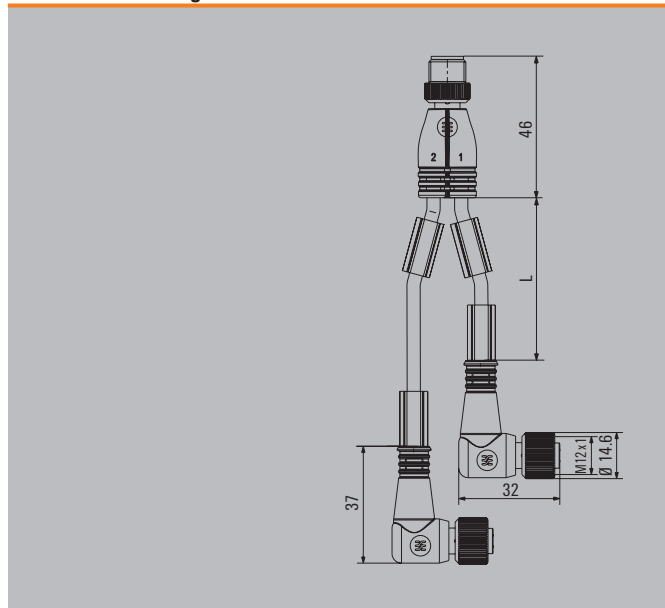
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	250 V (3- and 4-pole) / 125 V (5-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	cULus; EAC

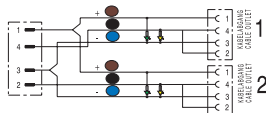
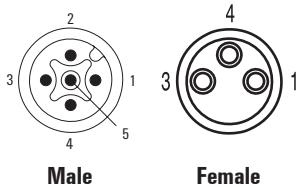
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Sensor cables

Connecting cable
M12 to M8 twin cabling with LED



Ordering data

Male straight - 2 females angled	
PUR halogen-free	1.5 m
Note	

2 LEDs

3-pole

SAIL-ZW-M8BW-3L1.5U	9457410150
Other versions on request	

Standard cable lengths

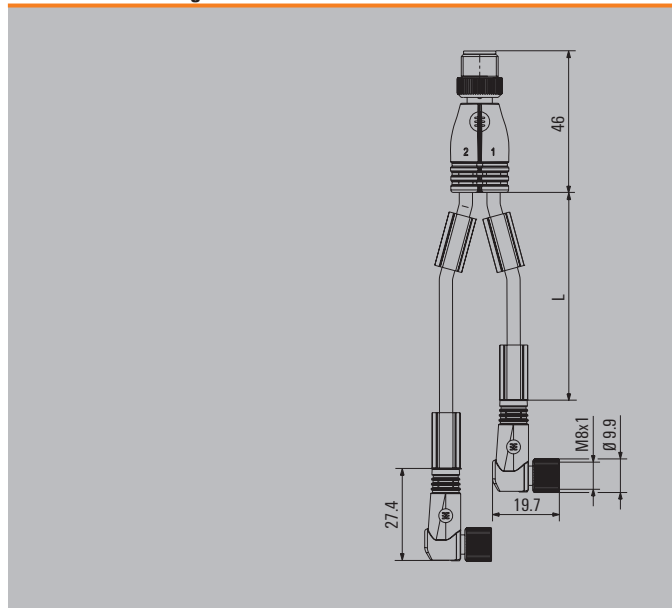
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.25 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	60 V (3-pole) / 30 V (4-pole)
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing

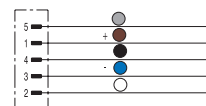
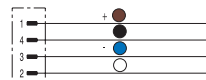
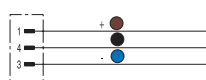
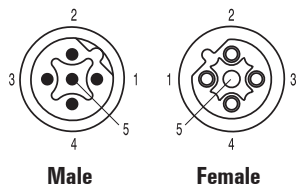


B-coded M12 cables



Connector coding is very important to avoid the potential risk of damage due to connectors being incorrectly plugged together. This risk is particularly high when you need to plug in differing voltages. For example, it is not unusual to connect 110 or 230 V with a M12 plug-in connector. However if a 24 V electric potential is connected with a 110 or 230 V line, it will inevitably lead to destructive results. B-coding has been introduced for such cases. B-coded connectors are shaped so that they can not be fitted together unless extreme force is used. This coding makes it safe to use the standard M12 connector system in a single machine for different voltages which may exceeding 24 V. For the SAI Active Universal System, the power plug is A-coded since it only provides 24 V. The Profibus DP also takes advantage of this coding scheme. It is currently the only bus system using B-coded M12 plugs for IP 67-protected connections. In this case, special approved bulk stock cable is used instead of the power cables.

One end without connector
M12
B-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
Male, angled	
PUR halogen-free	1.5 m
Female, straight	
PUR halogen-free	1.5 m
Female, angled	
PUR halogen-free	1.5 m
Note	

3-pole	
SAIL-M12G-3B-1.5U	1057770150
SAIL-M12W-3B-1.5U	1057800150
SAIL-M12BG-3B-1.5U	1057740150
SAIL-M12BW-3B-1.5U	1061890150

4-pole	
SAIL-M12G-4B-1.5U	1057780150
SAIL-M12W-4B-1.5U	1057810150
SAIL-M12BG-4B-1.5U	1057750150
SAIL-M12BW-4B-1.5U	1061900150

5-pole	
SAIL-M12G-5B-1.5U	1057790150
SAIL-M12W-5B-1.5U	1057820150
SAIL-M12BG-5B-1.5U	1061880150
SAIL-M12BW-5B-1.5U	1057760150

Standard cable lengths

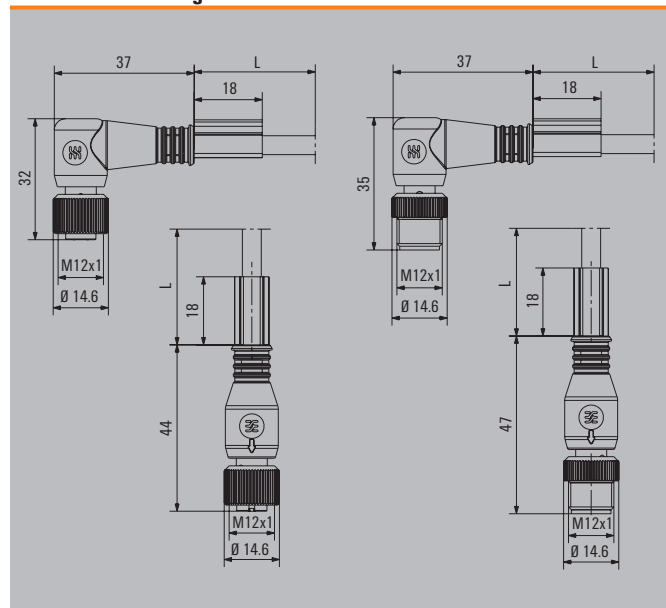
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard O110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

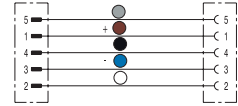
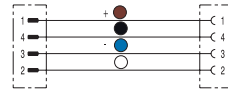
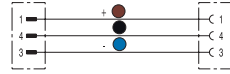
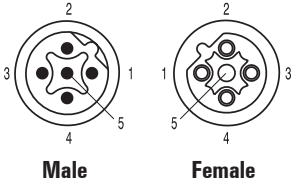
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



Power cables

Connecting cables
M12 to M12
B-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
Note	

		3-pole
		SAIL-M12GM12G-3B-1.5U 1057830150
		SAIL-M12GM12W-3B-1.5U 1057900150
		SAIL-M12WM12W-3B-1.5U 1061910150
		SAIL-M12WM12G-3B-1.5U 1057870150
		Other versions on request

		4-pole
		SAIL-M12GM12G-4B-1.5U 1057840150
		SAIL-M12GM12W-4B-1.5U 1057910150
		SAIL-M12WM12W-4B-1.5U 1061920150
		SAIL-M12WM12G-4B-1.5U 1057880150
		Other versions on request

		5-pole
		SAIL-M12GM12G-5B-1.5U 1057850150
		SAIL-M12GM12W-5B-1.5U 1057920150
		SAIL-M12WM12W-5B-1.5U 1061930150
		SAIL-M12WM12G-5B-1.5U 1057890150
		Other versions on request

Standard cable lengths

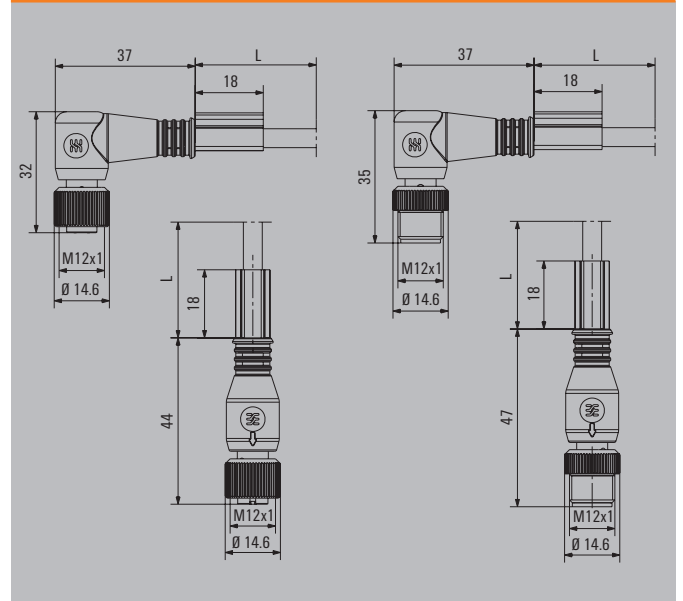
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Core cross-section	0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	250 V (3- and 4-pole) / 125 V (5-pole)
Approvals	cULus; EAC

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



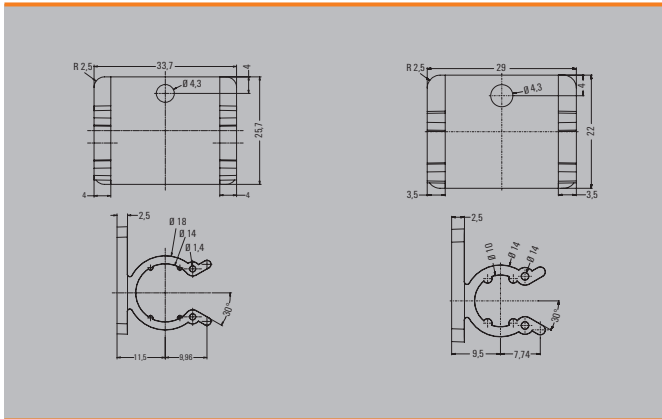
SAI clip



Ordering data

Type	Cable gland	QTY	Order No.
SAH-M12-CLIP		10	1362750000
SAH-M8-CLIP		10	1363800000

Dimensioned drawing



Valve plug, ISO 4400



Machine builders frequently need different cable lengths for valve plugs. Valve plugs with free cable ends can be used to adjust the cable exactly to the lengths required.

Weidmüller can also supply valve plugs as connecting cables with M12 plugs.

The status of the valve plug is shown by an LED. Every valve plug is fitted with a protective circuit.

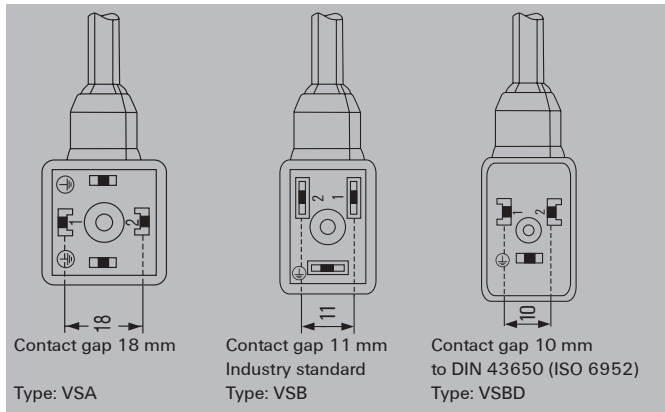
The Weidmüller range includes valve plugs of type A, B and C to DIN and industry standards.

Weidmüller plugs comply with IP 67 ingress protection class when plugged in.

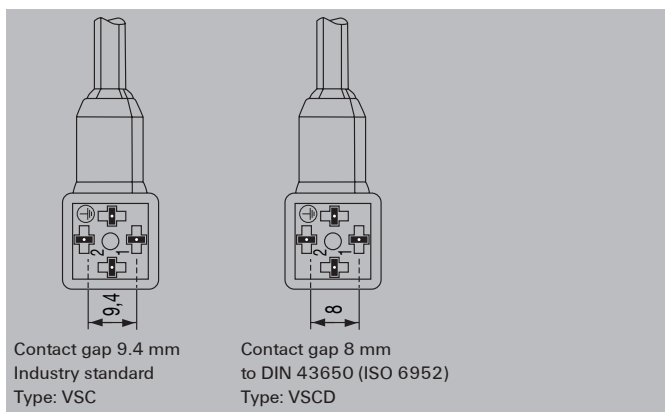
The outgoing direction is also crucial. Weidmüller can supply 0° versions, i.e. the outgoing direction of the cable is at the PE contact.

Valve plug Type A

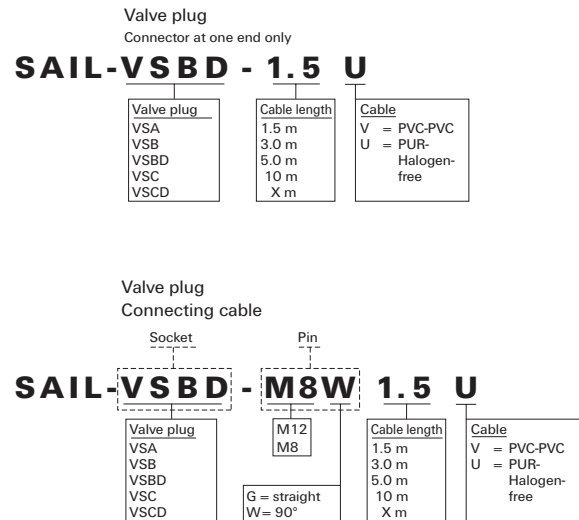
Valve plug Type B



Valve plug Type C



Example of designation



Design A

Zener diode



B

Ordering data

		A	
Open cable end - valve plug			
	1.5 m	SAIL-VSA-1.5U	9457710150
Male straight - valve plug			
	1.5 m	SAIL-VSA-M12G-1.5U	9457040000
Male angled - valve plug			
	1.5 m	SAIL-VSA-M12W-1.5U	1857690150
Note		Other versions on request	

Standard cable lengths

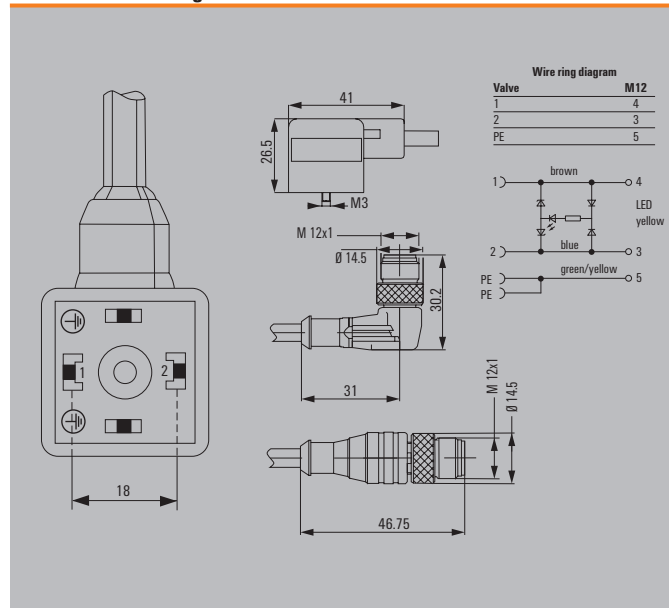
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design A = M3
Approvals	EAC

L in the drawing is the cable length

Dimensioned drawing



Valve cables

Design type A

Varistor



Ordering data

		24 V		230 V	
Open cable end - valve plug					
230 V AC/DC	1.5 m				
24 V AC/DC	3.0 m				
Note		Other versions on request		Other versions on request	
		SAIL-VSAV-3.0U		SAIL-VSAV-230V-1.5U	
		1525690300		1549100150	

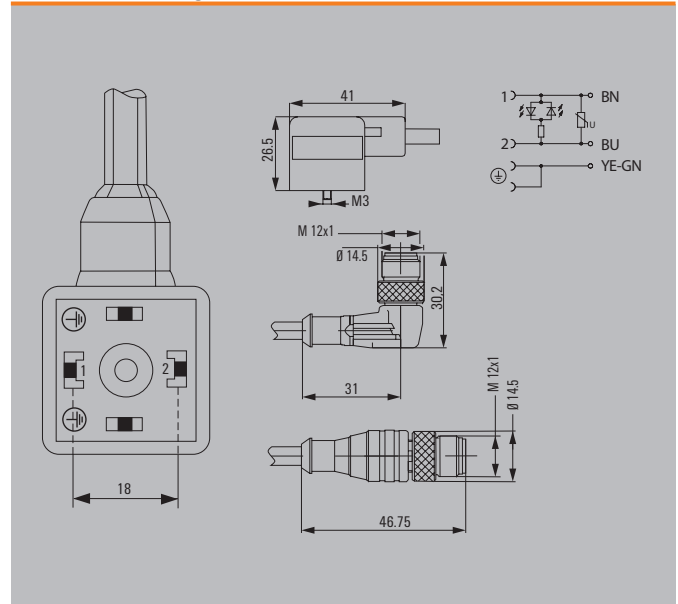
Standard cable lengths

All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	
Fixing screw	Design A = M3
Approvals	

Dimensioned drawing



Design B/BD

B = industry standard
 BD = DIN standard
 Zener diode



B

Ordering data

		B	BD		
Open cable end - valve plug	1.5 m	SAIL-VSB-1.5U	9457930150	SAIL-VSBD-1.5U	9456070150
Male straight - valve plug	1.5 m	SAIL-VSB-M12G-1.5U	9457680150	SAIL-VSBD-M12G-1.5U	9457780150
Male angled - valve plug	1.5 m	SAIL-VSB-M12W-1.5U	1857700150	SAIL-VSBD-M12W-1.5U	1857710150
Note		Other versions on request		Other versions on request	

Standard cable lengths

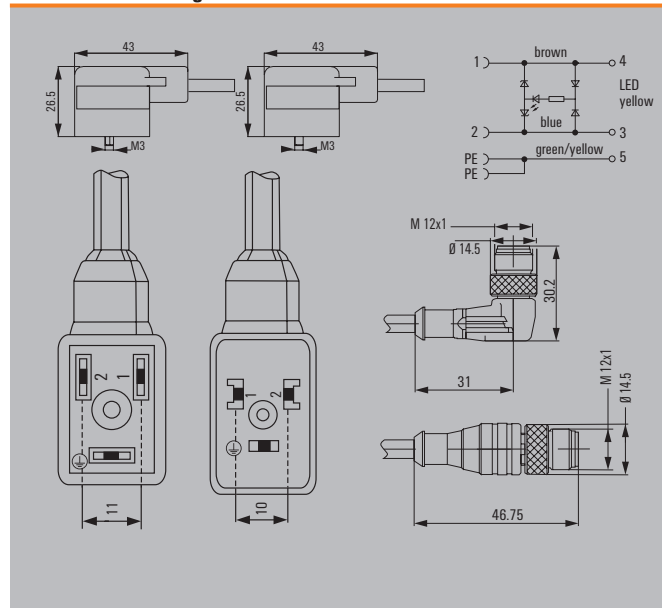
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design B/BD = M3
Approvals	EAC

L in the drawing is the cable length

Dimensioned drawing



Valve cables

Design C/CD

C = industry standard
 CD = DIN standard
 Zener diode



Ordering data

		C		CD	
Open cable end - valve plug	1.5 m	SAIL-VSC-1.5U	9457920150	SAIL-VSCD-1.5U	9456240150
Male straight - valve plug	1.5 m	SAIL-VSC-M12G-1.5U	9457400150	SAIL-VSCD-M12G-1.5U	9456170150
Male angled - valve plug	1.5 m	SAIL-VSC-M12W-1.5U	1857720150	SAIL-VSCD-M12W-1.5U	1857730150
Note		Other versions on request		Other versions on request	

Standard cable lengths

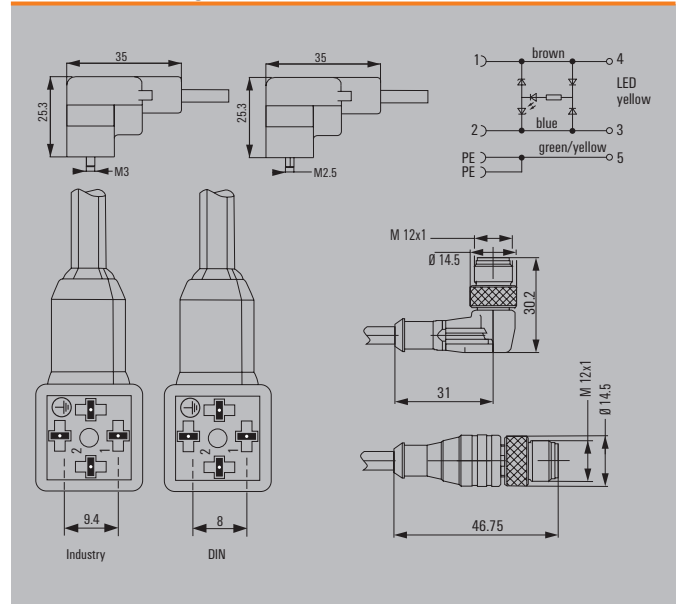
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	Design C = M3
Approvals	EAC

L in the drawing is the cable length

Dimensioned drawing



Design A

Suppressor diode suitable for IDC connectors and protective flexible conduit connection



Ordering data

Open cable end - valve plug	1.5 m
Note	

A	
SAIL-VSA-1.5U(0.5)	1845120150
Supplied without protective hose	

Standard cable lengths

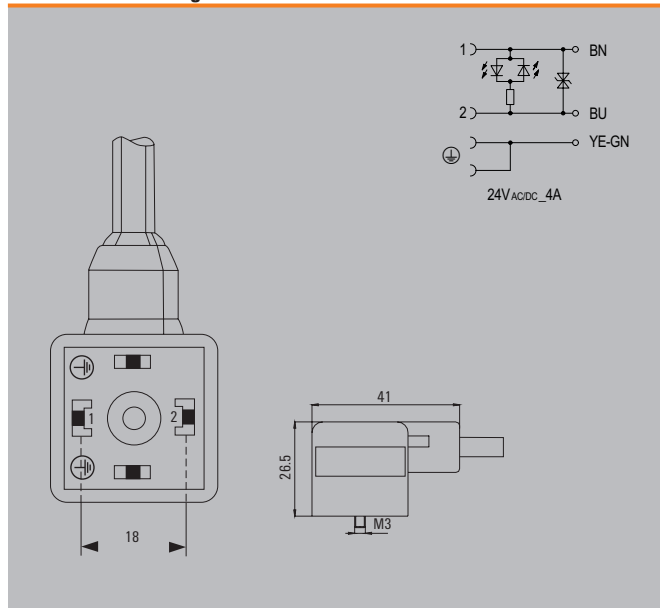
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	
Approvals	EAC

L in the drawing is the cable length

Dimensioned drawing



Valve cables

Design B/BD

B = industry standard
 BD = DIN standard

Suppressor diode suitable for IDC connectors and protective flexible conduit connection



Ordering data

		B	BD	
Open cable end - valve plug	1.5 m	SAIL-VSB-180-1.5U(0.5)	1845140150	SAIL-VSBD-180-1.5U(0.5)
Note		Supplied without protective hose		Supplied without protective hose

Standard cable lengths

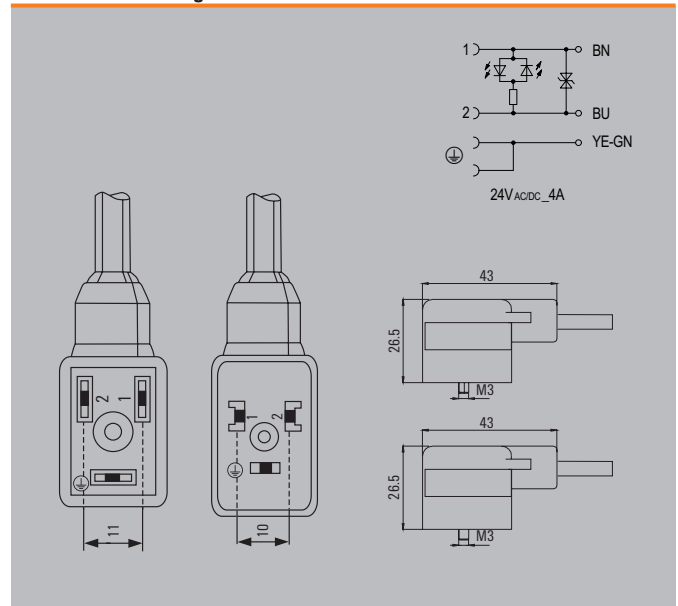
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Fixing screw	
Approvals	EAC

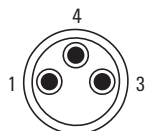
L in the drawing is the cable length

Dimensioned drawing



Design A

Suppressor diode



Male

Ordering data

Male straight - valve plug	1.5 m
Note	

	A
SAIL-VSA-M8G-3-1.5U	1099760150



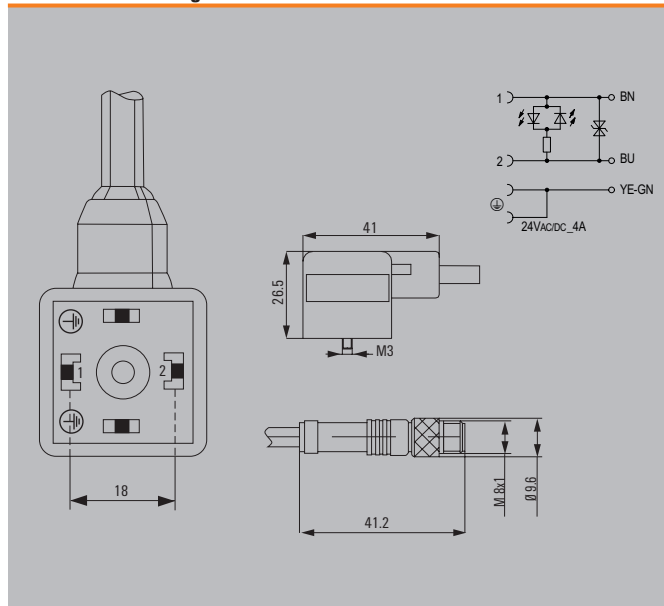
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage (acc. to VDE standard 0110 ISO group C)	24 V
Approvals	EAC

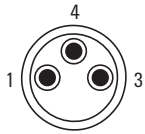
Dimensioned drawing



Valve cables

Design B/BD

B = industry standard
 BD = DIN standard
 Suppressor diode



Male

Ordering data

		B		BD	
Male straight - valve plug	1.5 m	SAIL-VSBD-M8G-3-1.5U	1099770150	SAIL-VSB-M8G-3-0.15U	1271590015
Male straight - valve plug 180°	1.5 m	SAIL-VSBD180-M8G-3-1.5U	1276450150		
Note					

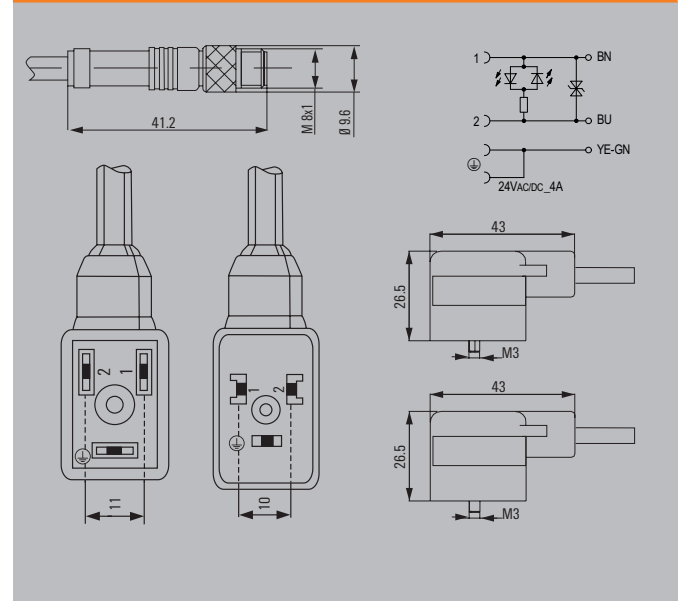
Standard cable lengths

All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

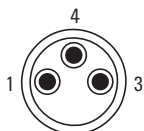
Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage	24 V
(acc. to VDE standard 0110 ISO group C)	
Approvals	

Dimensioned drawing



Design C/CD

C = industry standard
 CD = DIN standard
 Suppressor diode



Male

Ordering data

		C	CD	
Male straight - valve plug	1.5 m	SAIL-VSC-M8G-0.15U	SAIL-VSCD-M8G-3-1.5U	
Note		1309680015	1916700150	

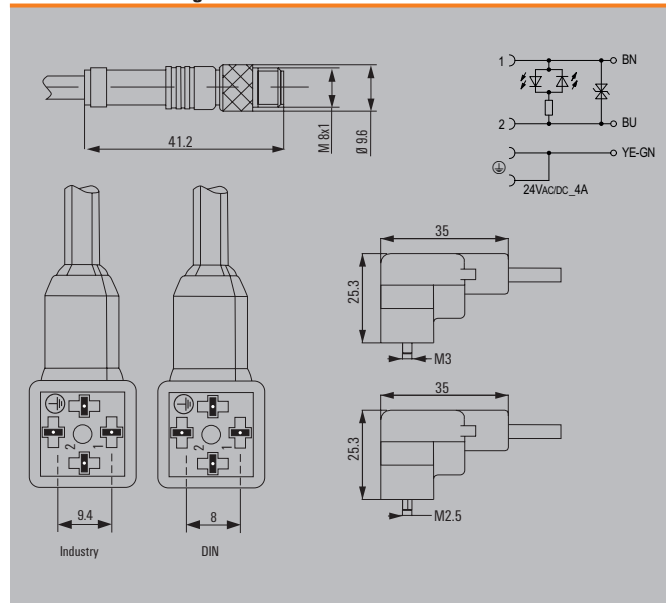
Standard cable lengths

All cables listed in the ordering data have a length of	1.5 m	xxxxxx0150
1.5 metres. The last four ordering digits must be changed	3.0 m	xxxxxx0300
when ordering other standard cable lengths.	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Black
Sheath material	PUR
Rated current	4 A
Protection degree	IP67, when screwed in
Core cross-section	0.5 mm ²
Contact surface	tinned
Temperature range of housing	-25...+80 °C
Rated voltage	24 V
(acc. to VDE standard 0110 ISO group C)	
Approvals	EAC

Dimensioned drawing



Connecting line for sensors and actuators

Connecting line
100 m ring

0.25 mm², PUR

0.25 mm², PUR



B

Technical data

Shielded	No
No. of poles	3
Core cross-section	0.25
Outer diameter	4.1 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.25
Outer diameter	4.4 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.25
Outer diameter	4.4 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Ordering data

100.0 m
Note

Type	QTY	Order No.
SAIH-3x0,25(PUR)	100	1902140000

Type	QTY	Order No.
SAIH-4x0,25(PUR)	100	1902120000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

See chapter W for further technical data

Connecting line
100 m ring

Connecting cable 0.34 mm², PUR

Connecting cable 0.34 mm², PUR



Technical data

Shielded	No
No. of poles	3
Core cross-section	0.34
Outer diameter	4.3 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	4.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	4.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Ordering data

100.0 m
Note

Type	QTY	Order No.
SAIH-3x0,34(PUR)	100	1902110000

Type	QTY	Order No.
SAIH-4x0,34(PUR)	100	1902130000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Note

Note

Connecting line for sensors and actuators

Connecting line
100 m ring

Connecting cable 0.34 mm², PUR



B

Technical data

Shielded	No
No. of poles	5
Core cross-section	0.34
Outer diameter	5.0 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Ordering data

Type	QTY	Order No.
SAIH-5x0,34(PUR)	100	1022960000
Note		

Accessories

Type	QTY	Order No.
AM 12	1	9030060000
Cutting tool		
KT 8	1	9002650000

Note

Connecting line
100 m ring

Connecting cable 0.25 mm², PVC

Connecting cable 0.25 mm², PVC



Technical data

Shielded	No
No. of poles	3
Core cross-section	0.25
Outer diameter	4.5 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, blue, black
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.25
Outer diameter	4.8 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.25
Outer diameter	4.8 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	Chapter W includes additional technical specifications for the cable

Ordering data

	100.0 m
Note	

Type	QTY	Order No.
SAIH-3x0,25(PVC)	100	1902190000

Type	QTY	Order No.
SAIH-4x0,25(PVC)	100	1902170000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note	
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Note	
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Note	
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Connecting line for sensors and actuators

Connecting line
100 m ring

Connecting cable 0.34 mm², PVC

Connecting cable 0.34 mm², PVC



B

Technical data

Shielded	No
No. of poles	3
Core cross-section	0.34
Outer diameter	4.9 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, blue, black
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	5.3 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	5.3 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	Chapter W includes additional technical specifications for the cable

Ordering data

100.0 m
Note

Type	QTY	Order No.
SAIH-3x0,34(PVC)	100	1902160000

Type	QTY	Order No.
SAIH-4x0,34(PVC)	100	1902180000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Note

Note

Connecting line
100 m ring

Connecting cable 0.34 mm², PVC



Technical data

Shielded	No
No. of poles	5
Core cross-section	0.34
Outer diameter	5.7 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	

Shielded	No
No. of poles	5
Core cross-section	0.34
Outer diameter	5.7 ± 0.2 mm
Sheath material	PVC
Sheathing colour	Black
Insulation	PVC
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-5...80 °C
Temperature range fixed, min / max	-30...80 °C
Halogen	Yes
Suitable for cable carriers	No
Resistant to welding beads	No
Torsion resistance	0
Acceleration	
Speed	
Bending cycles	
Note	

Ordering data

	100.0 m
Note	

Type	QTY	Order No.
SAIH-5x0.34(PVC)	100	1412620000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note	
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Note	
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Connecting line for sensors and actuators

**Connecting line
100 m ring**

Connecting cable 0.34 mm², PUR

Connecting cable 0.34 mm², PUR



B

Technical data

Shielded	No
No. of poles	3
Core cross-section	0.34
Outer diameter	4.3 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Yellow
Insulation	PP
Colour coding	brown, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	4.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Yellow
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	4.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Yellow
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	

Ordering data

100.0 m
Note

Type	QTY	Order No.
SAIH-3x0.34(PUR)GE	100	1345520000

Type	QTY	Order No.
SAIH-4x0.34(PUR)GE	100	1345530000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note

Note

Note

Connecting line
100 m ring

Connecting cable 0.34 mm², PUR



Technical data

Shielded	No
No. of poles	5
Core cross-section	0.34
Outer diameter	5.0 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Yellow
Insulation	PP
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	

Shielded	No
No. of poles	5
Core cross-section	0.34
Outer diameter	5.0 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Yellow
Insulation	PP
Colour coding	brown, white, blue, black, grey
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	

Ordering data

	100.0 m
Note	

Type	QTY	Order No.
SAIH-5x0.34(PUR)GE	100	1345540000
Note		

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000
Note		

Note	
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Note	
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Connecting line for sensors and actuators

Connecting line
100 m ring
shielded

Connecting cable 0.34 mm², PUR



Connecting cable 0.34 mm², PUR



B

Technical data

Shielded	Yes	Yes
No. of poles	3	4
Core cross-section	0.34	0.34
Outer diameter	5.0 ± 0.2 mm	5.4 ± 0.2 mm
Sheath material	PUR	PUR
Sheathing colour	Black	Black
Insulation	PP	PP
Colour coding	brown, blue, black	black, brown, white, blue
Temperature range, moving, min / max	-25...80 °C	-25...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	0	0
Acceleration	5	5
Speed	200	200
Bending cycles	2 Mio	2 Mio
Note		

Ordering data

	100.0 m	Type	QTY	Order No.	Type	QTY	Order No.
Note		SAIH-3x0.34-S(PUR)	100	1357320000	SAIH-4x0.34-S(PUR)	100	1357330000

Accessories

Sheathing stripper	For UTP and STP data cables	Type	QTY	Order No.	Type	QTY	Order No.
Cutting tool		AM 12	1	9030060000	AM 12	1	9030060000
		KT 8	1	9002650000	KT 8	1	9002650000

Note

Connecting line
100 m ring
shielded

Connecting cable 0.34 mm², PUR



Technical data

Shielded	Yes
No. of poles	5
Core cross-section	0.34
Outer diameter	5.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	blue, white, brown, grey, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	200
Bending cycles	2 Mio
Note	

Shielded	Yes
No. of poles	5
Core cross-section	0.34
Outer diameter	5.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	blue, white, brown, grey, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	200
Bending cycles	2 Mio
Note	

Ordering data

	100.0 m
Note	

Type	QTY	Order No.
SAIH-5x0.34-S(PUR)	100	1357340000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Note	
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Note	
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Connecting line for Weidmüller distributor

Bus cable

3 x 0.75 - 8 x 0.34, PUR

3 x 0.75 - 16 x 0.34, PUR



B

Technical data

Shielded	No	No
No. of poles	11	19
Core cross-section		
Outer diameter	7.7 ± 0.3 mm	9.1 ± 0.3 mm
Sheath material	PUR	PUR
Sheathing colour	Black	Black
Insulation	TPM	TPM
Colour coding	white, green, yellow, grey, pink, red, black, violet, blue, brown, green / yellow	violet, red, grey, red / blue, green, blue, grey / pink, white / green, white / yellow, white / grey, black, green / yellow, Yellow / brown, brown / green, white, yellow, pink, grey / brown, brown
Temperature range, moving, min / max	-5...80 °C	-5...80 °C
Temperature range fixed, min / max	-40...80 °C	-40...80 °C
Halogen	No	No
Suitable for cable carriers	Yes	Yes
Resistant to welding beads	No	No
Torsion resistance	0	0
Acceleration		
Speed		
Bending cycles	2 Mio	2 Mio
Note	Chapter W includes additional technical specifications for the cable	Chapter W includes additional technical specifications for the cable

Ordering data

	100.0 m	Type	QTY	Order No.	Type	QTY	Order No.
Note		SAIH-SLL-3x0,75-8x0,34	1	9457420000	SAIH-SLL-3x0.75-16x0.34	1	9457560000

Accessories

Sheathing stripper	For UTP and STP data cables	Type	QTY	Order No.	Type	QTY	Order No.
Cutting tool		AM 12	1	9030060000	AM 12	1	9030060000
		KT 8	1	9002650000	KT 8	1	9002650000

Note		
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Bus cable

5 x 0.75 - 16 x 0.34, PUR

3 x 1.0 - 16 x 0.5, PUR



Technical data

Shielded	No
No. of poles	3
Core cross-section	0.34
Outer diameter	4.3 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	4.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Shielded	No
No. of poles	4
Core cross-section	0.34
Outer diameter	4.7 ± 0.2 mm
Sheath material	PUR
Sheathing colour	Black
Insulation	PP
Colour coding	brown, white, blue, black
Temperature range, moving, min / max	-25...80 °C
Temperature range fixed, min / max	-40...80 °C
Halogen	No
Suitable for cable carriers	Yes
Resistant to welding beads	No
Torsion resistance	0
Acceleration	5
Speed	5
Bending cycles	5 Mio
Note	Chapter W includes additional technical specifications for the cable

Ordering data

	100.0 m
Note	

Type	QTY	Order No.
SAIH-3x0,34(PUR)	100	1902110000

Type	QTY	Order No.
SAIH-4x0,34(PUR)	100	1902130000

Accessories

Sheathing stripper	For UTP and STP data cables
Cutting tool	

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000

Type	QTY	Order No.
AM 12	1	9030060000
KT 8	1	9002650000



M8, M12 Plug-in connectors and protective caps

M8, M12 Plug-in connectors and protective caps	SAI connectors	C.2
	Customisable connectors	C.4
	Connectors - accessories	C.33
	Built-in plugs	C.38
	Valve plugs for custom assembly	C.50
	Protective sleeve adapter	C.56

SAI connectors

Self assembled M8 and M12 connectors are integral and essential connectivity components. They are available with a wide variety of different wire connection methods. Weidmüller offers all of the secure connection methods, which include screw, tension clamp, IDC-, Crimp or solder connection mechanisms.

One highlight in this line is the shielded, D-coded M-12 connectors. They are available in male and female versions and with tension clamp connection.

The eight pole screw connection connectors are a special favourite. These are available in shielded or unshielded versions.





Fast

The M12 connectors can also come with the tension clamp conductor connection method, either shielded or unshielded.



Versatile

Eight-pole M12 connectors, shielded, with screw connection and a cable outer insulation diameter of 8 - 10 mm.



Proven

M8 connectors with screw connections for the conductor are much easier to assemble compared to connectors which require soldering.



Safe

M8 connectors with shield connections are in increasing demand as the trend towards miniaturisation continues.



M12 connectors

Screw and tension clamp connection



M8 connectors

Screw and solder connection



M8 and M12 connectors

Insulation displacement connection (IDC)



M8 and M12 connectors

T distributor



Protective caps for SAI distributors



M12/M8/M5

Built in connectors



Customisable valve connectors

Overview of M8 and M12 screw connections

M8



Plugs and sockets (screw connection) for custom assembly to make up M8 and M12 connections.

Machine builders frequently need individual cable lengths. To meet this demand, Weidmüller can supply M8 and M12 plug in connectors for custom assembly.

The plug in connectors are available with different cable gland diameters. In the 90° versions, the outgoing direction of the cable can be changed in 90° steps. The connected plug in connectors comply with IP 67 ingress protection classification. There are also plug in connectors available for double assignment of distributors.

M12

M12 Metal



Screwty®



This is the perfect tool for all common cable glands on sensor and actuator cables.

The Screwty® fits M12 and M8 round plugs. Both types can be used for the plugs and sockets on custom cables.

The handle of every Screwty® has a conventional 1/4 inch fitting and can be used for all sizes. Simply turn the tool to tighten or release a round plug.

The Screwty® is also available with a torque fitting. This adjustable attachment can be used for all sizes. The torque can be infinitely adjusted between 0.5 and 1.7 Nm.

IDC-Tool



Weidmüller offers various products with insulation displacement connection for M12 connectors. These include the IDC connection elements, which can be directly screwed to a distributor, such as part nos. 9457720000 and 1766810000.

In addition, there are two M12 IDC adapters with part nos. 1781550001 and 1781540001. All four elements can be fitted by hand with no additional tools. When there are many connections to be made in a day, however, use of the copyright protected IDC tool is recommended. This tool works like a knurled screw on the terminal.

Overview of SAI connector M12

Plastic

Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
PG7 Male	1021470000	9457550000	9456940000	1021280000	9457290000	9456950000
PG7 Female	1021490000	9457240000	9457250000	1021310000	9457700000	9457260000
Screw connection						
PG9 Male	1021480000	1807340000	1807350000	1021280000	1807360000	1807370000
PG9 Female	1021510000	1807230000	1807250000	1021310000	1807240000	1807330000
Screw connection	8-pole	12-pole (Solder connection)				
PG 9 Male	1836970000	1924950000				
PG9 Female	1836960000	1924960000				
IDC connection	(0.14 - 0.34 mm ²) 4-pole	(0.34 - 0.75 mm ²) 4-pole				
Male	1781550001	1852740000				
Female	1781540001	1852730000				
Tension clamp connection			5-pole			
Male			1906390000			
Female			1924970000			

Metal

A-coded Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
PG7 Male			1191030000			
PG7 Female			1191020000			
PG9 Male		9455640000	1784740000		1803930000	1803940000
PG9 Female		8426220000	1784750000		1803910000	1803920000
Tension clamp connection						
PG9 Male						
PG9 Female		1784740002				1275750000
B-coded Screw connection						
PG9 Male			1784790000			1944570000
PG9 Female			1784780000			1944580000
D-coded Screw connection						
PG9 Male		1892120000				
PG9 Female		1892130000				
D-coded Screw connection						
PG9 Male		1892120001			1803930001	
PG9 Female		1892130001			1139330000	

Overview of M8 connectors

Plastic

Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male screw connection	1803860000	1803850000				
Female screw connection	1803870000	1803880000				
Male IDC connection	1784040001	1784060001				
Female IDC connection	1784030001	1784050001				
Male solder connection				1920990000	1921000000	
Female solder connection				1920970000	1920980000	

Metal

Screw connection	straight			angled		
	3-pole	4-pole	5-pole	3-pole	4-pole	5-pole
Male screw connection	1010060000	1010070000				
Female screw connection	1010080000	1010090000				
Male solder connection	1921030000	1921040000				
Female solder connection	1921010000	1921020000				

**M12 screw connection
A-coded**

SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

Male	
	3-pole, PG 7
	3-pole, PG 9
	4-pole, PG 7
	4-pole, PG 9
Female	
	3-pole, PG 7
	3-pole, PG 9
	4-pole, PG 7
	4-pole, PG 9
Note	

Type	QTY	Order No.
SAIS-3/7	1	1021470000
SAIS-3/9	1	1021480000
SAIS-4/7	1	9457550000
SAIS-4/9	1	1807340000
Other versions on request		
SAIB-3/7	1	1021490000
SAIB-3/9	1	1021510000
SAIB-4/7	1	9457240000
SAIB-4/9	1	1807230000
Other versions on request		

Type	QTY	Order No.
SAISW-3/7	1	1021280000
SAISW-3/9	1	1021290000
SAISW-4/7	1	9457290000
SAISW-4/9	1	1807360000
Other versions on request		
SAIBW-3/7	1	1021310000
SAIBW-3/9	1	1021320000
SAIBW-4/7	1	9457700000
SAIBW-4/9	1	1807240000
Other versions on request		

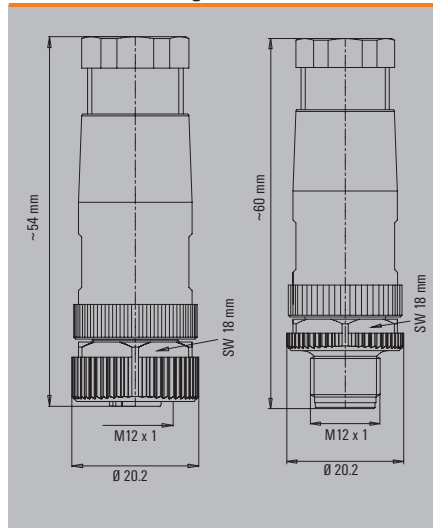
Technical data

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	

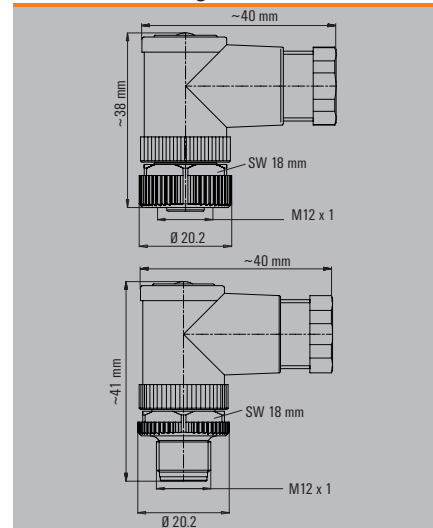
Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	

Dimensioned drawing



Dimensioned drawing



M12 screw connection
A-coded

SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

Male	
	5-pole, PG 7
	5-pole, PG 9
	8-pole, PG 9
Female	
	5-pole, PG 7
	5-pole, PG 9
	8-pole, PG 9
Note	

Type	QTY	Order No.
SAIS-5/7	1	9456940000
SAIS-5/9	1	1807350000
SAIS-8/9	1	1836970000
Other versions on request		

Type	QTY	Order No.
SAISW-5/7	1	9456950000
SAISW-5/9	1	1807370000
Other versions on request		

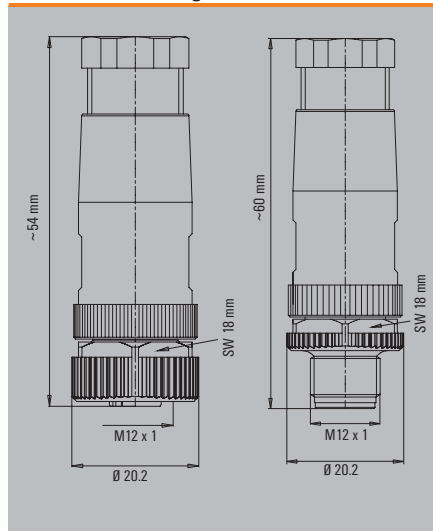
Technical data

Type of connection	PA
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7) / 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	125 V (5-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn (5-pole) / gold plated (8-pole)
Note	

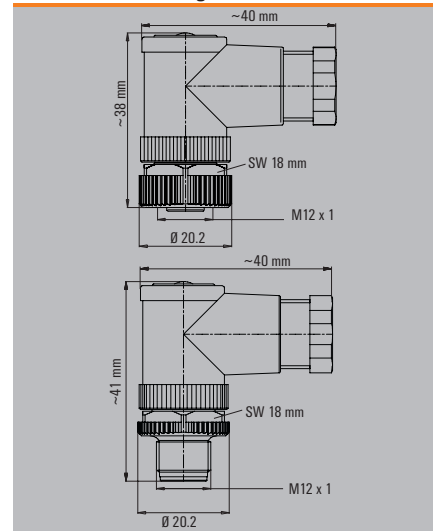
Type of connection	PA
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7) / 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	125 V (5-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn (5-pole) / gold plated (8-pole)
Note	

Type of connection	PA
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7) / 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	125 V (5-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	

Dimensioned drawing



Dimensioned drawing



**M12 screw connection
A-coded**

SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

Male	
	4-pole, PG 7
	5-pole, PG 7
	5-pole, PG 9
Female	
	4-pole, PG 7
	5-pole, PG 7
	5-pole, PG 9
Note	

Type	QTY	Order No.
SAIS-4/7-(KV)	1	1921060000
SAIS-5/7-(KV)	1	1921050000
SAIS-5/9-(KV)	1	1007080000
SAIB-4/7-(KV)	1	1921080000
SAIB-5/7-(KV)	1	1921070000
SAIB-5/9-(KV)	1	1007090000
Other versions on request		

Type	QTY	Order No.
SAISW-4/7-(KV)	1	1962620000
SAISW-5/7-(KV)	1	1962610000
SAISW-5/9-(KV)	1	1007060000
SAIBW-4/7-(KV)	1	1935610000
SAIBW-5/7-(KV)	1	1962630000
SAIBW-5/9-(KV)	1	1007070000
Other versions on request		

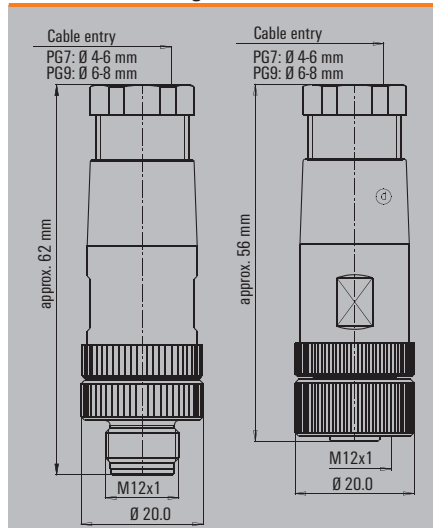
Technical data

Type of connection	PA
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7) / 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	KV = plastic cable gland

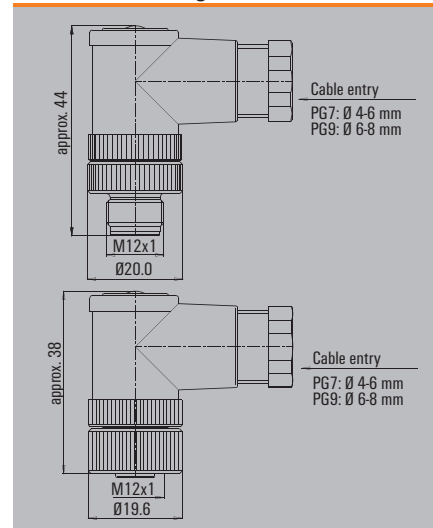
Type of connection	PA
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7) / 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	KV = plastic cable gland

Type of connection	PA
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7) / 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	KV = plastic cable gland

Dimensioned drawing



Dimensioned drawing



M12 solder connection
A-coded

SAIS / SAIB

Straight



SAIBW

Angled



Ordering data

Male	12-pole, PG 9
Female	12-pole, PG 9
Note	

Type	QTY	Order No.
SAIS-12/9-(TL)	1	1924950000
SAIB-12/9-(TL)	1	1924960000

Type	QTY	Order No.
SAIBW-12/9-(TL)	1	1925870000

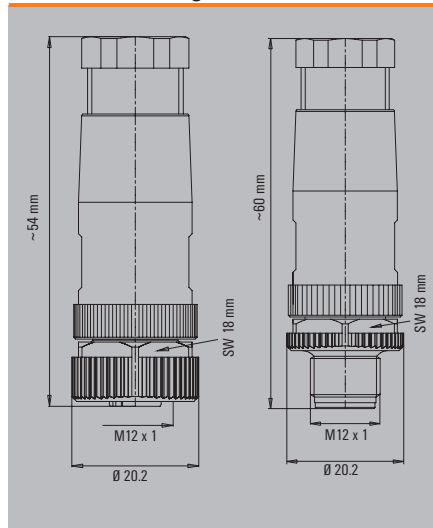
Technical data

Type of connection	Solder connection
Housing main material	PA
connection thread	M12
Cable diameter	6..8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.25 mm ²
Rated current	1 A
Rated voltage	30 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

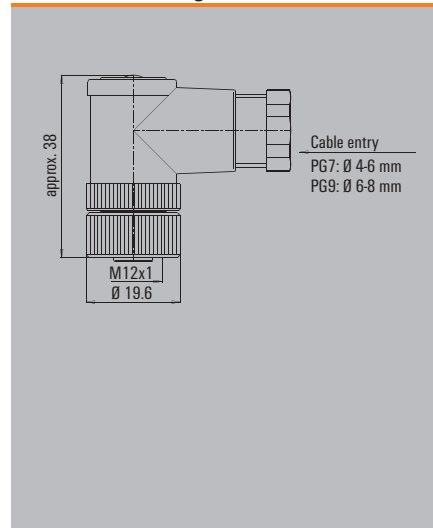
Type of connection	Solder connection
Housing main material	PA
connection thread	M12
Cable diameter	6..8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.25 mm ²
Rated current	1 A
Rated voltage	30 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Solder connection
Housing main material	PA
connection thread	M12
Cable diameter	6..8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.25 mm ²
Rated current	1 A
Rated voltage	30 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



Dimensioned drawing



Tension clamp connection M12
A-coded

SAIS-ZF

Straight



Ordering data

Male	
	5-pole, PG 7
	5-pole, PG 9
Female	
	5-pole, PG 7
	5-pole, PG 9
Note	

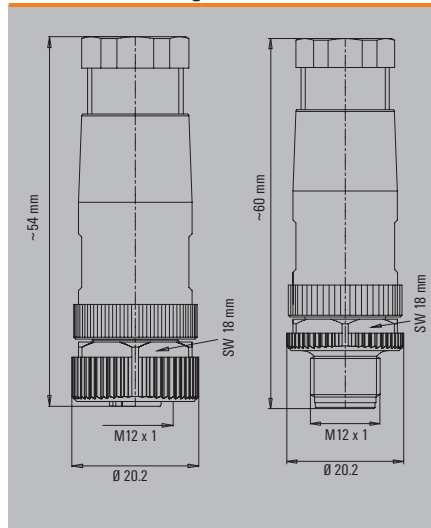
Type	QTY	Order No.
SAIS-5/7-ZF	1	1906390000
SAIS-5/9-ZF	1	1044700000
SAIB-5/7-ZF	1	1924970000
SAIB-5/9-ZF	1	1044710000
Note		

Technical data

Type of connection	Tension clamp connection
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Tension clamp connection
Housing main material	PA
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



Twin plug
M12 screw connection

SAIS-ZW



SAIS-ZWW



Ordering data

Type	QTY	Order No.
SAIS-ZW-5	1	9457540000
Other versions on request		

Note

Technical data

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	36 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	

Type	QTY	Order No.
SAIS-ZWW	1	1837560000
Other versions on request		

Note

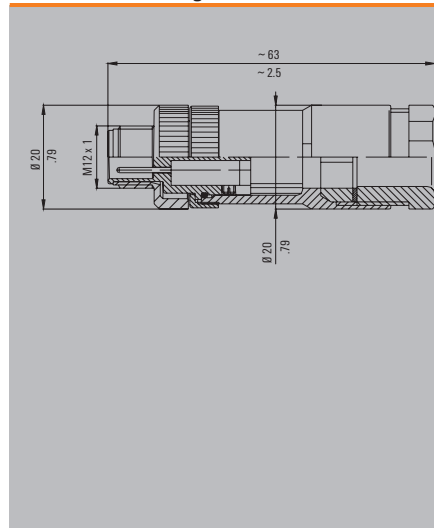
Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	36 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	

Type	QTY	Order No.
SAIS-ZWW	1	1837560000
Other versions on request		

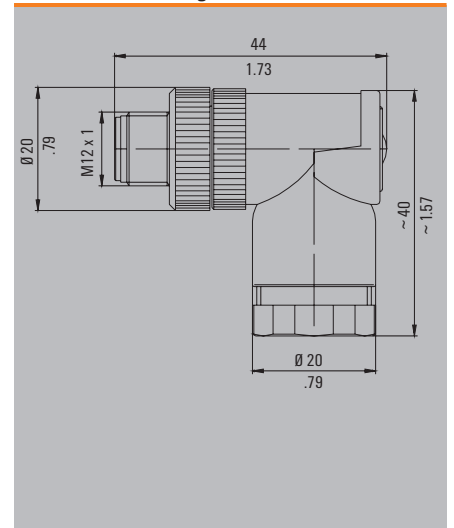
Note

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	36 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	CuSnZn
Note	

Dimensioned drawing



Dimensioned drawing



**M12 screw connection
with shield connection
A-coded**



FBCon / SAIS

Straight



SAISW / SAIBW

Angled



Ordering data

Male	
	4-pole, PG 9
	5-pole, PG 9
Female	
	4-pole, PG 9
	5-pole, PG 7
	5-pole, PG 9
Note	

Type	QTY	Order No.
FBCon M12 4P M EMC	1	9455640000
SAIS-M-5/8S M12 5P A-COD	1	1784740000
Other versions on request		
FBCon M12 4P FM EMC	1	8426220000
SAIB-5/6S M12 5P A-COD	1	1191020000
SAIB-M-5/8S M12 5P A-COD	1	1784750000
Other versions on request		

Type	QTY	Order No.
SAISW-M-4/8 M12	1	1803930000
SAISW-M-5/8 M12	1	1803940000
Other versions on request		
SAIBW-M-4/8 M12	1	1803910000
SAIBW-M-5/8 M12	1	1803920000
Other versions on request		

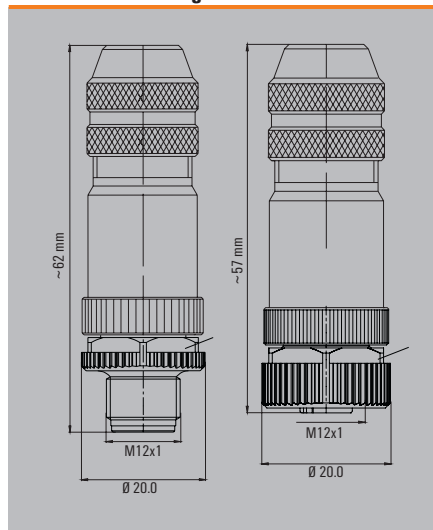
Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

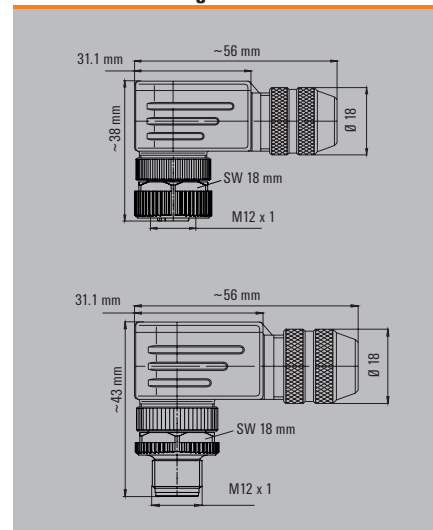
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



Dimensioned drawing



**M12 screw connection
with shield connection
A-coded**

SAISM / SAISB 8/11

Straight



Ordering data

Male	8-pole, PG 9
	8-pole, PG 11
Female	8-pole, PG 9
	8-pole, PG 11
Note	

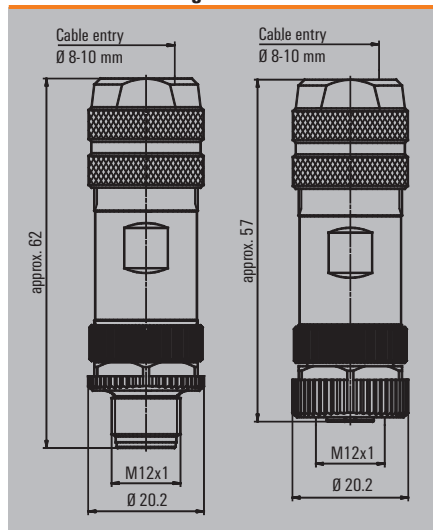
Type	QTY	Order No.
SAISM-8/9S-M12	1	1258940000
SAISM-8/11S-M12	1	1118910000
SAIBM-8/9S-M12	1	1258930000
SAIBM-8/11S-M12	1	1118920000

Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	2 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	2 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M12 tension-clamp connection, stainless steel with shield connection

A-coded

B-coded



SAIS / SAIB VA

Straight



Ordering data

Male	
	5-pole, PG 9
	5-pole, PG 9
Female	
	5-pole, PG 9
	5-pole, PG 9
Note	

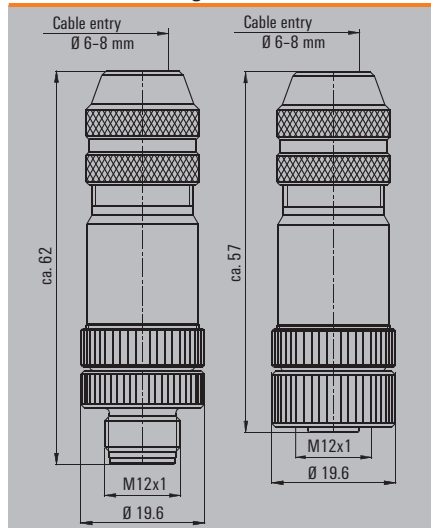
Type	QTY	Order No.
SAIS 5/9-VA	1	1920700000
SAIS 5/9-VA-B-COD	1	1920720000
SAIB 5/9-VA	1	1920710000
SAIB 5/9-VA-B-COD	1	1920730000
Note		

Technical data

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6.8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	
	PB = PROFIBUS (B-COD)

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6.8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	
	PB = PROFIBUS (B-COD)

Dimensioned drawing



**M12 screw connection
with shield connection
B-coded**



SAISW / SAIBW

Angled



Ordering data

Male	5-pole, PG 9
Female	5-pole, PG 9
Note	

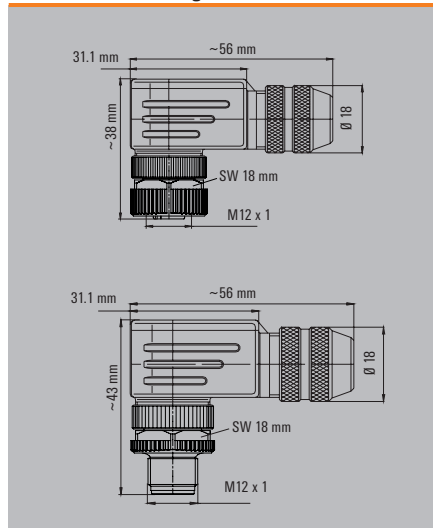
Type	QTY	Order No.
SAISW-M-5/8 M12 B-COD	1	1944570000
SAIBW-M-5/8 M12 B-COD	1	1944580000

Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M12 screw connection
with shield connection
Insulation displacement connection
B-coded



SAISM / SAIBM

Straight



SAIS / SAIB

Straight



Ordering data

Male	
	3-pole, PG 9
	5-pole, PG 9
Female	
	3-pole, PG 9
	5-pole, PG 9
Note	

Type	QTY	Order No.
SAISM 5/8S M12 5P B-COD	1	1784790000
SAIBM 5/8S M12 5P B-COD	1	1784780000

Type	QTY	Order No.
SAIS-3-IDC-M12B-COD	1	1864730000
SAIB-3-IDC-M12B-COD	1	1864740000

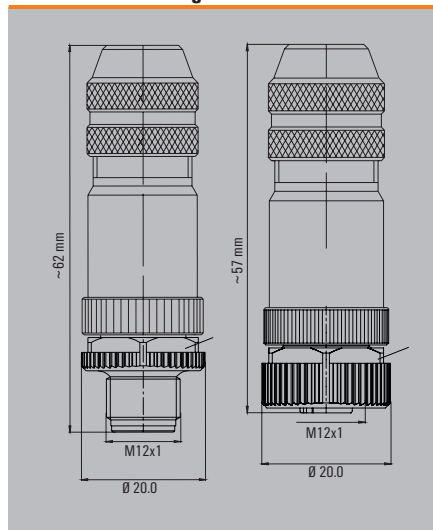
Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

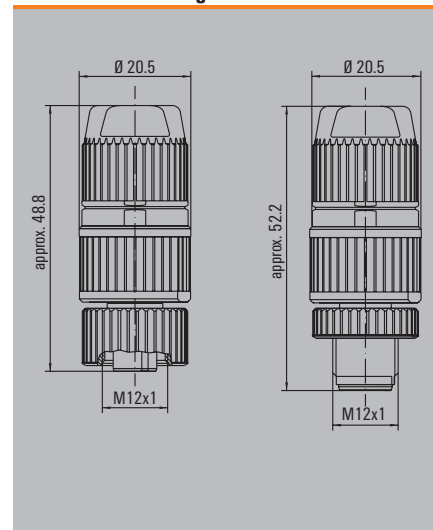
Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	7...8.8 mm
Wire cross-section, min. / max.	0.34...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	
PB = PROFIBUS (B-COD)	
IE = Industrial Ethernet (D-COD)	

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	7...8.8 mm
Wire cross-section, min. / max.	0.34...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	
PB = PROFIBUS (B-COD)	
IE = Industrial Ethernet (D-COD)	

Dimensioned drawing



Dimensioned drawing



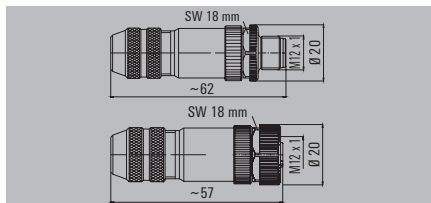
Customisable connectors

**M12 plug,
Screw connection,
D-coded**

SAISM / SAIBM



Industrial Ethernet



C

Technical data

Type of connection	Screw connection
Housing main material	CuZn
Operating temperature, min.	-40 °C...85 °C
Connector standard	IEC 61076-2-101
connection thread	M12
Cable diameter	6..8 mm (PG9)
Wire cross-section, min. / max.	0.25 mm ² / 0.75 mm ²
Rated current	4
Rated voltage	250
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Ordering data

Male	4-pole, PG 9	Type	QTY	Order No.
		SAISM-4/8S-M12-4P D-COD	1	1892120000
Female	4-pole, PG 9			
		SAIBM-4/8S-M12-4P D-COD	1	1892130000
Note				

Accessories

Type	QTY	Order No.

Note

Note

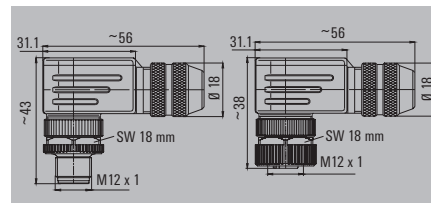
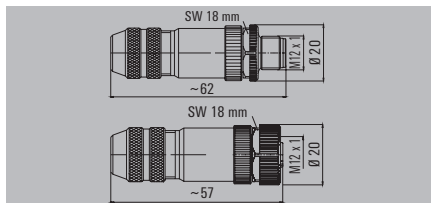
**M12 plug,
Tension-clamp connection,
D-coded**

SAISM / SAIBM

SAISW / SAIBW



Industrial Ethernet



Technical data

Type of connection	Tension clamp connection
Housing main material	CuZn
Operating temperature, min.	-40 °C...85 °C
Connector standard	IEC 61076-2-101
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25 mm ² / 0.5 mm ²
Rated current	4
Rated voltage	250
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Tension clamp connection
Housing main material	CuZn
Operating temperature, min.	-40 °C...85 °C
Connector standard	IEC 61076-2-101
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25 mm ² / 0.5 mm ²
Rated current	4
Rated voltage	250
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Tension clamp connection
Housing main material	CuZn
Operating temperature, min.	-40 °C...85 °C
Connector standard	IEC 61076-2-101
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25 mm ² / 0.5 mm ²
Rated current	4
Rated voltage	250
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Ordering data

Male	4-pole, PG 9
Female	4-pole, PG 9
Note	

Type	QTY	Order No.
SAISM-4/8S-M12 4P D-ZF	1	1892120001
SAIBM-4/8S-M12 4P D-ZF	1	1892130001

Type	QTY	Order No.
SAISW-4/8S-M12 4P D-ZF	1	1803930001
SAIBW-4/8S-M12 4P D-ZF	1	1139330000

Accessories

Type	QTY	Order No.

Type	QTY	Order No.

Type	QTY	Order No.

Note

Note

Note

M12 crimp connection
with shield connection
D-coded

Industrial Ethernet

C

SAISC / SAISWC



SAISM



Ordering data

Male	
	4-pole. straight
	4-pole. angled
Note	

Technical data

Type of connection	
Housing main material	
connection thread	
Cable diameter	
Wire cross-section, min. / max.	
Rated current	
Rated voltage (acc. to VDE standard 0110 ISO Group C)	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

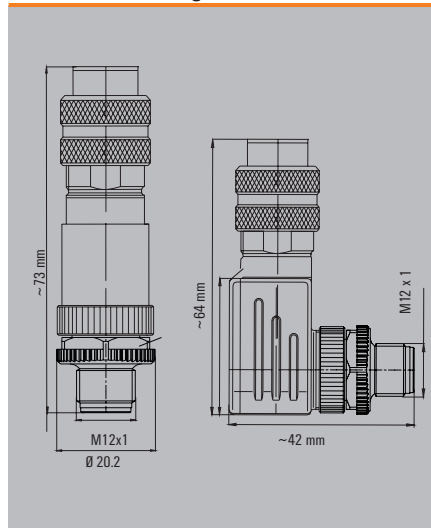
Type	QTY	Order No.
SAISC-M-4/8S-M12-D-COD	1	1467840000
SAISWC-M-4/8S-M12-D-COD	1	1467850000
Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000		

Crimp connection	
CuZn	
M12	
5...8 mm	
0.34...0.5 mm ²	
4 A	
250 V	
-40 ... +85 °C	
IP67	
Gold-plated	
Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000	

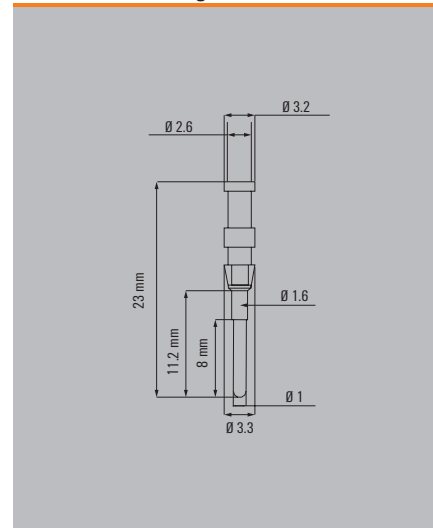
Type	QTY	Order No.
SAI-M12-KSC-0.34/0.5	100	1468860000

Crimp connection	
4 A	
Gold-plated	
Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000	

Dimensioned drawing

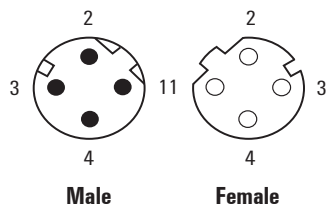


Dimensioned drawing



M12 crimp connection
D-coded

Industrial Ethernet



SAISC



Ordering data

Ethernet cables	
Male	SAISC-D-RR-6.6-C5
Female	SAIBC-D-RR-6.6-C5
Male	SAISC-D-RR-7.3-C5
Female	SAIBC-D-RR-7.3-C5
Male	SAISC-D-RR-8.3-C5
Female	SAIBC-D-RR-8.3-C5
PROFINET cables	
Male	SAISC-D-PN-6.5-C5
Female	SAIBC-D-PN-6.5-C5

Note

Technical data

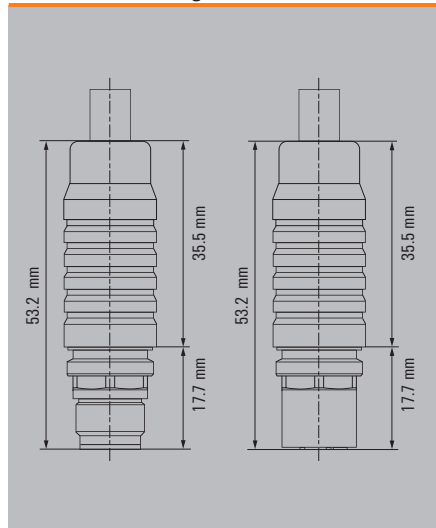
Cable gland	M 12
Coding	D
Protection degree	IP67
No. of poles	4
Rated voltage	50 V
Rated current	4 A
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Connection cross-section min. / max.	0.34...0.5 mm ²
Cable diameter, max.	6.5 mm
Temperature range of housing	-40 ... +85 °C
Plugging cycles	≥ 200

Note

Type	QTY	Order No.
SAISC-D-RR-6.6-C5	1	1380560000
SAIBC-D-RR-6.6-C5	1	1380570000
SAISC-D-RR-7.3-C5	1	1380540000
SAIBC-D-RR-7.3-C5	1	1380550000
SAISC-D-RR-8.3-C5	1	1380580000
SAIBC-D-RR-8.3-C5	1	1380590000
SAISC-D-PN-6.5-C5	1	1380610000
SAIBC-D-PN-6.5-C5	1	1380620000

Female Order No.	Male Order No.	Coding	Cable type	HUBER + SUHNER Order No.
1380550000	1380540000	D	Radox Railcat Databus CAT5 7.3 mm	12568935
1380570000	1380560000	D	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380590000	1380580000	D	Radox Railcat CAT5 4 x 0.5 mm ² XCS 8.3 mm	12585489
1380620000	1380610000	D	PROFINET 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

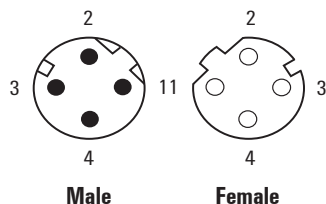
Dimensioned drawing



Customisable connectors

M12 crimp connection
Panel feed-through
D-coded

Industrial Ethernet



SAIBC



Ordering data

Ethernet cables	
	Female
	Female
	Female
PROFINET cables	
	Female
Note	

Type	QTY	Order No.
SAIBC-WDF-DRR-6.6-C5	1	1380640000
SAIBC-WDF-DRR-7.3-C5	1	1380630000
SAIBC-WDF-DRR-8.3-C5	1	1380650000
SAIBC-WDF-D-PN-6.5-C5	1	1380670000

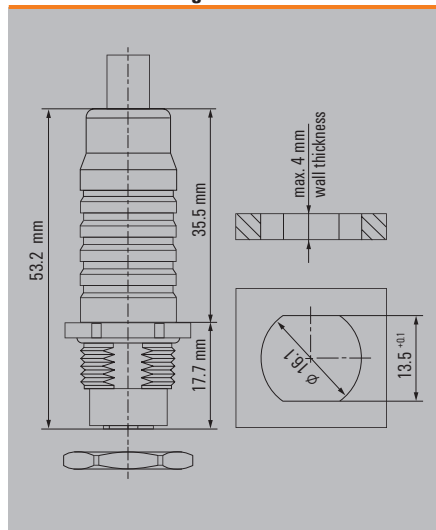
Technical data

Cable gland
Coding
Protection degree
No. of poles
Rated voltage
Rated current
Category
Connection cross-section min. / max.
Cable diameter, max.
Temperature range of housing
Plugging cycles
Note

M 16
D
IP67
4
50 V
4 A
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
0.34...0.5 mm ²
-40 ... +85 °C
≥ 200

Female Order No.	Coding	Cable type	HUBER + SUHNER Order No.
1380630000	D	Radox Railcat Databus CAT5, 7.3 mm	12568935
1380640000	D	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380650000	D	Radox Railcat CAT5 4 x 0.5 mm ² XCS 8.3 mm	12585489
1380670000	D	PROFINET, 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

Dimensioned drawing



M8 screw connection

SAIS / SAIB

Straight



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

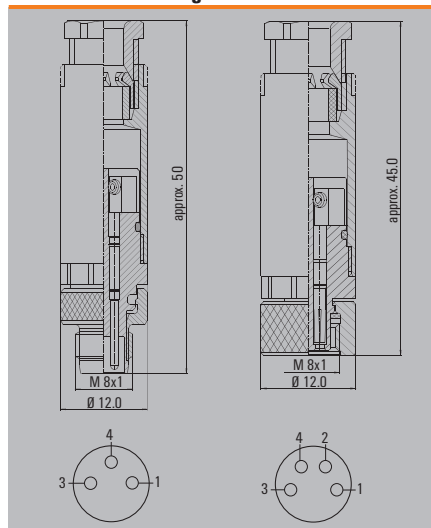
Type	QTY	Order No.
SAIS-M8-3P	1	1803860000
SAIS-M8-4P	1	1803850000
SAIB-M8-3P	1	1803870000
SAIB-M8-4P	1	1803880000
Other versions on request		

Technical data

Type of connection	Screw connection
Housing main material	PA
connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	PA
connection thread	M8
Cable diameter	3.5...5 mm
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8 screw connection, shielded

SAISM / SAIBM



Ordering data

Male	3-pole
	4-pole
Female	3-pole
	4-pole
Note	

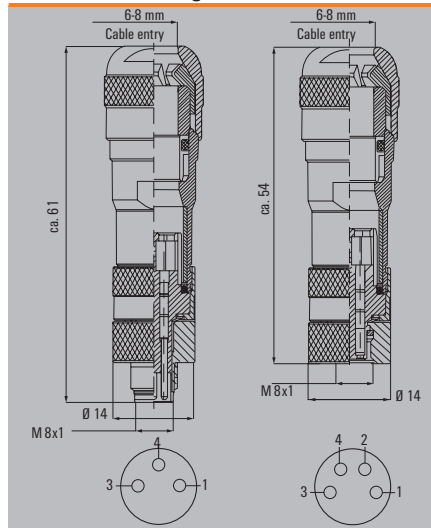
Type	QTY	Order No.
SAISM-3/9S-M8	1	1467550000
SAISM-4/9S-M8	1	1467570000
SAIBM-3/9S-M8	1	1467560000
SAIBM-4/9S-M8	1	1467580000

Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M8
Cable diameter	6...8 mm
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M8
Cable diameter	6...8 mm
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8 solder connection
with shield connection
M8 screw connection
with shield connection

SAISM / SAIBM

Straight



SAISM / SAIBM

Straight



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

Type	QTY	Order No.
SAISM-M8-3P(TL)	1	1921030000
SAISM-M8-4P(TL)	1	1921040000
SAIBM-M8-3P(TL)	1	1921010000
SAIBM-M8-4P(TL)	1	1921020000

Type	QTY	Order No.
SAISM-M8-3P(IF)	1	1010060000
SAISM-M8-4P(IF)	1	1010070000
SAIBM-M8-3P(IF)	1	1010080000
SAIBM-M8-4P(IF)	1	1010090000

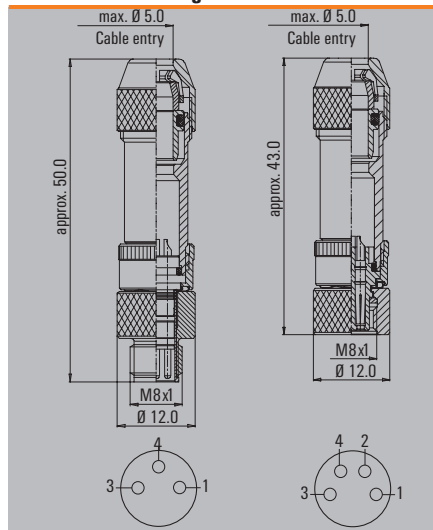
Technical data

Type of connection	Solder connection
Housing main material	CuZn
connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.25...0.25 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

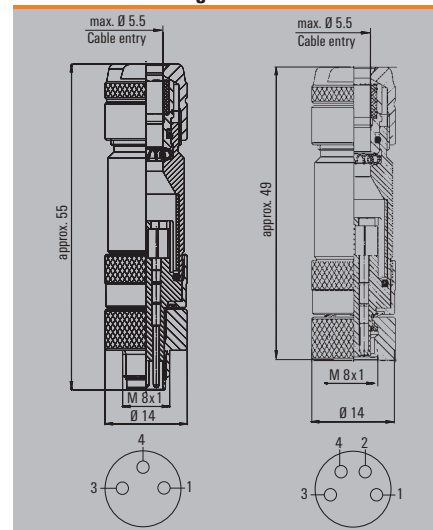
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
IF = iris-type spring	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.14...0.5 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
IF = iris-type spring	

Dimensioned drawing



Dimensioned drawing



Solder connection M8

SAISW / SAIBW

Angled



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

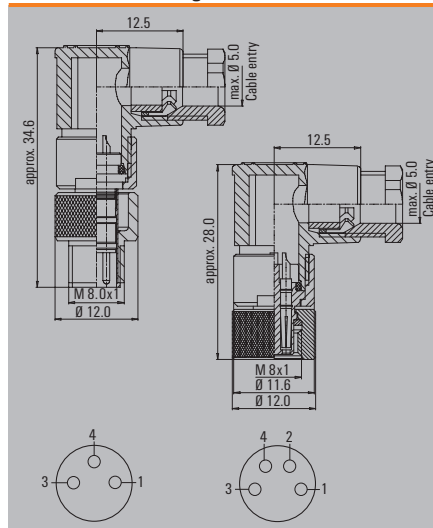
Type	QTY	Order No.
SAISW-M8-3P(TL)	1	1920990000
SAISW-M8-4P(TL)	1	1921000000
SAIBW-M8-3P(TL)	1	1920970000
SAIBW-M8-4P(TL)	1	1920980000

Technical data

Type of connection	Solder connection
Housing main material	CuZn
connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.25...0.25 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Solder connection
Housing main material	CuZn
connection thread	M8
Cable diameter	3.5...5.5 mm
Wire cross-section, min. / max.	0.25...0.25 mm ²
Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



M8 and M12 insulation displacement connection (IDC)

M8



The assembly of round plugs is very time consuming. The cable has to be stripped and possibly, also fitted with a wire end ferrule.

Weidmüller's IDC plug in connector systems offers a quick fit connection system that saves both time and money.

The IDC quick fit, quick connection system is available for M12 and M8 connectors.

M12



Screwty®



This is the perfect tool for all common cable glands on sensor and actuator cables.

The Screwty® fits M12 and M8 round plugs. Both types can be used for plugs and sockets on custom cables.

The handle of every Screwty® has a conventional 1/4 inch fitting and can be used for all sizes. Simply turn the tool to tighten or release a round plug.

The Screwty® is also available with a torque fitting. This adjustable attachment can be used for all sizes.

The torque can be infinitely adjusted between 0.5 and 1.7 Nm.

Insulation-displacement connection M12
A-coded

SAIS IDC / SAIB IDC

Straight



SAIS IDC / SAIB IDC

Straight



Ordering data

Male	4-pole
Female	4-pole
Note	

Type	QTY	Order No.
SAIS-4-IDC M12 small	1	1781550001
SAIB-4-IDC-M12 small	1	1781540001
Other versions on request		

Type	QTY	Order No.
SAIS-4-IDC M12	1	1781550000
SAIB-4-IDC M12	1	1781540000
Other versions on request		

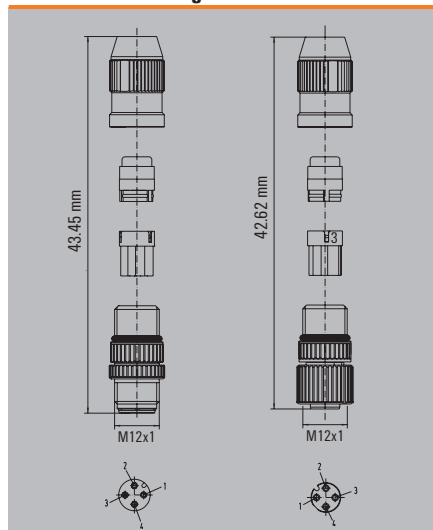
Technical data

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...5.1 mm
Wire cross-section, min. / max.	0.14...0.34 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

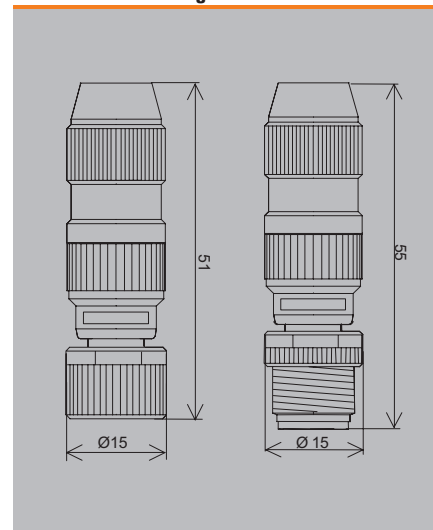
Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...5.1 mm
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...5.1 mm
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Dimensioned drawing



Dimensioned drawing



Insulation-displacement connection M12 (0.75)
A-coded

SAIS IDC / SAIB IDC (0.75)

Straight



SAISW IDC / SAIBW IDC

Angled



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

Type	QTY	Order No.
SAIS-3-4-5-IDC(0.75)M12	1	1852720000
SAIS-4-IDC (0,75) M12	1	1852740000
SAIB-3-4-5-IDC(0.75)M12	1	1852730000
SAIB-4-IDC (0,75) M12	1	1852750000
Other versions on request		

Type	QTY	Order No.
SAISW-4-IDC M12	1	1812870000
SAIBW-4-IDC M12	1	1812890000
Other versions on request		

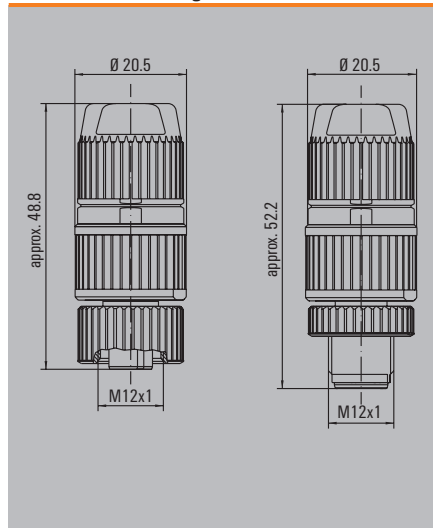
Technical data

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	5.5...8 mm
Wire cross-section, min. / max.	0.34...0.75 mm ²
Rated current	6 A
Rated voltage	50 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

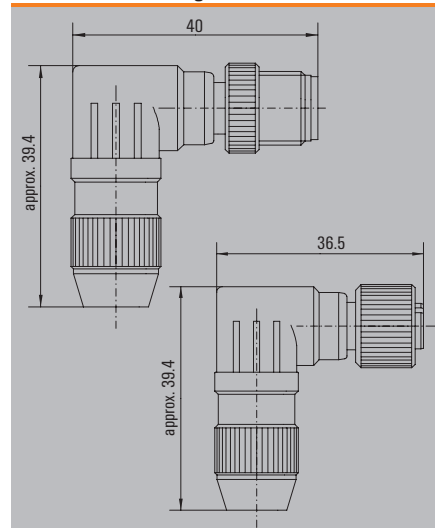
Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...5.1 mm
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...5.1 mm
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Dimensioned drawing



Dimensioned drawing



Insulation-displacement connection M8

SAIS IDC / SAIB IDC

Straight



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

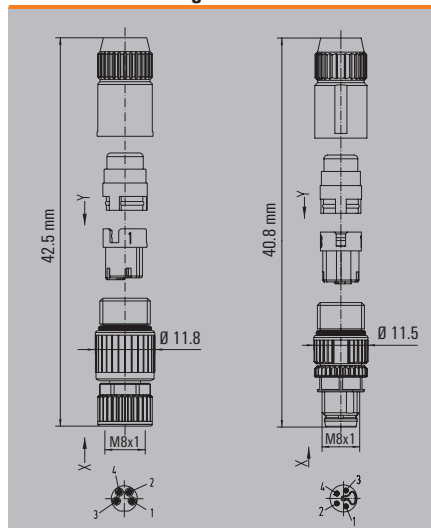
Type	QTY	Order No.
SAIS-3-IDC M8 small	1	1784040001
SAIS-4-IDC M8 small	1	1784060001
SAIB-3-IDC-M8 small	1	1784030001
SAIB-4-IDC-M8 small	1	1784050001
Other versions on request		

Technical data

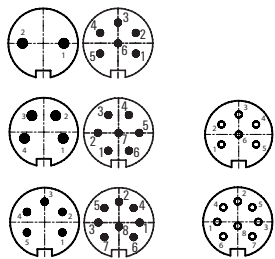
Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M8
Cable diameter	3.2...5.4 mm
Wire cross-section, min. / max.	0.14...0.34 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M8
Cable diameter	3.2...5.4 mm
Wire cross-section, min. / max.	0.14...0.34 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	

Dimensioned drawing



M16 solder connection



Male

Female

Ordering data

Male	
2-pole, PG 9	SAIS-M16-2/9
4-pole, PG 9	SAIS-M16-4/9
5-pole, PG 9	SAIS-M16-5/9
6-pole, PG 9	SAIS-M16-6/9
7-pole, PG 9	SAIS-M16-7/9
8-pole, PG 9	SAIS-M16-8/9
Female	
6-pole, PG 9	SAIB-M16-6/9
8-pole, PG 9	SAIB-M16-8/9
Note	

Technical data

Type of connection	Solder connection
Housing main material	PA
connection thread	M16
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole)
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP40
Contact surface	Ag (silver)
Note	

SAIS



SAIB



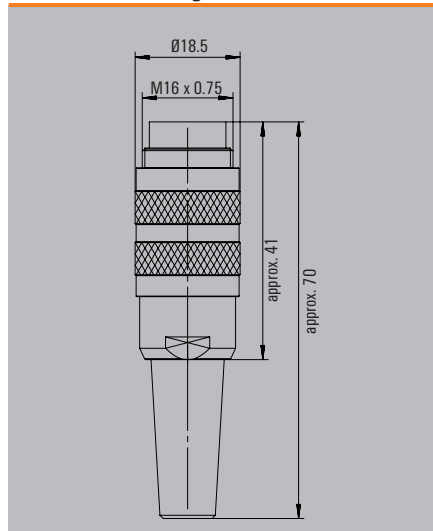
Type	QTY	Order No.
SAIS-M16-2/9	1	1321700000
SAIS-M16-4/9	1	1117970000
SAIS-M16-5/9	1	1117990000
SAIS-M16-6/9	1	1304390000
SAIS-M16-7/9	1	1118010000
SAIS-M16-8/9	1	1304430000
Note		

Type of connection	Solder connection
Housing main material	PA
connection thread	M16
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole)
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP40
Contact surface	Ag (silver)
Note	

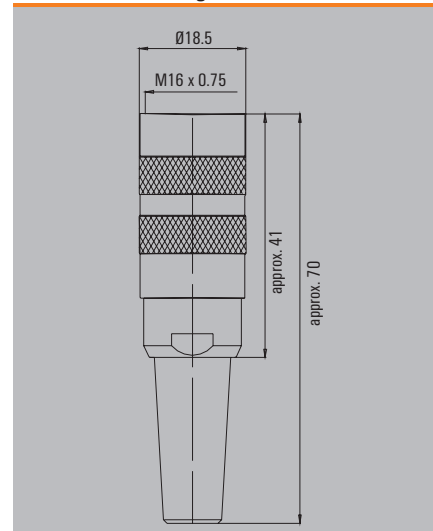
Type	QTY	Order No.
SAIB-M16-6/9	1	1304400000
SAIB-M16-8/9	1	1304450000
Note		

Type of connection	Solder connection
Housing main material	PA
connection thread	M16
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	7 A (2-pole) / 6 A (4- and 5-pole) / 5 A (6-, 7- and 8-pole)
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (2-, 4-, 5- and 6-pole) / 125 V (7-pole) / 60 V (8-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP40
Contact surface	Ag (silver)
Note	

Dimensioned drawing



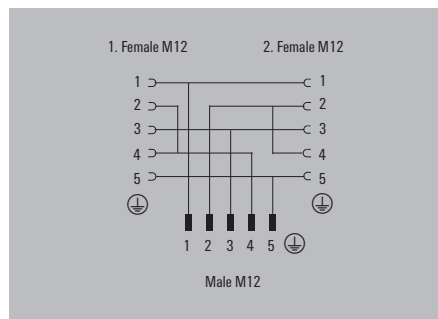
Dimensioned drawing



Y-distributor

M12/M12

Mounting screw M3, Distribution, pin 2 + 4 bridged

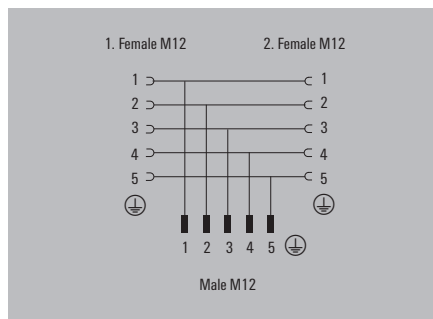


Ordering data

Type	QTY	Order No.
SAI-Y-5S B2-4 2M12	1	1783410000
Other versions on request		

M12/M12

Mounting screw M3, Parallel distribution

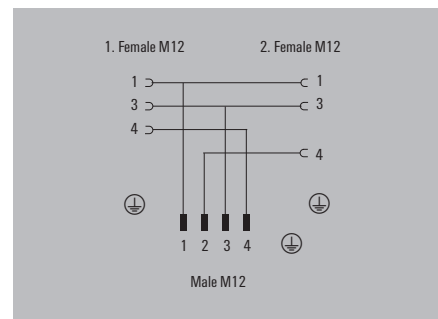


Ordering data

Type	QTY	Order No.
SAI-Y-5S PARA 2M12	1	1783430000
Other versions on request		

M12/M12

Mounting screw M3

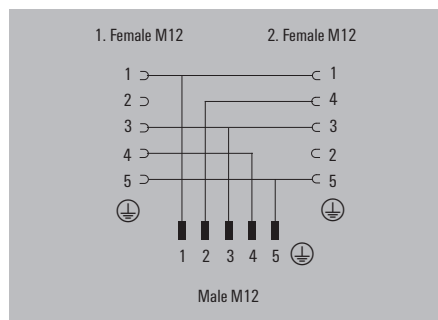


Ordering data

Type	QTY	Order No.
SAI-Y-4S-M12/M12	1	1060730000
Other versions on request		

M12/M12

Mounting screw M3, Individual distribution

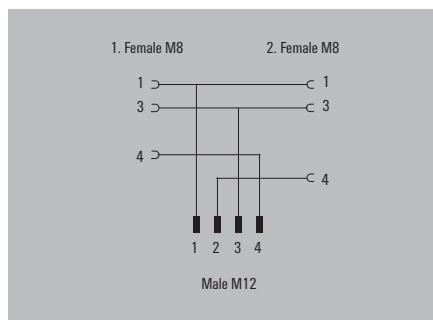


Ordering data

Type	QTY	Order No.
SAI-Y-5S-M12/M12	1	1826880000
Other versions on request		

M12/M8

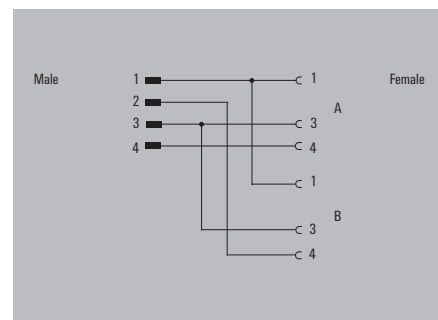
Mounting screw M3, Individual distribution



Ordering data

Type	QTY	Order No.
SAI-Y-4-4/2-4 M12/8	1	1783420000
Other versions on request		

M8/M8



Ordering data

Type	QTY	Order No.
SAI-Y-4S M8-M8	1	1805660000
Other versions on request		

C

Connectors – accessories

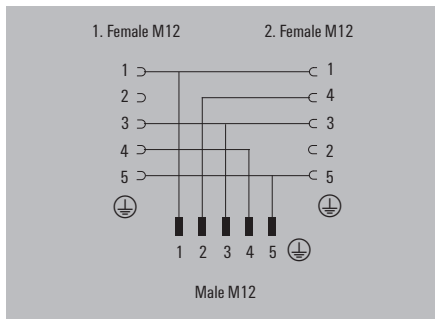
Y-distributor

M12/M12

Mounting screw M4



C



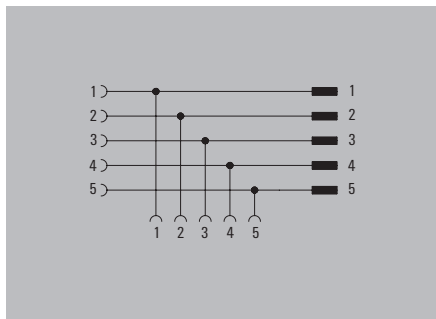
Ordering data

Type	QTY	Order No.
SAI-Y-5S M12/M12 2Bo	1	1881710000
Other versions on request		

T distributor

M12/M12

CANopen

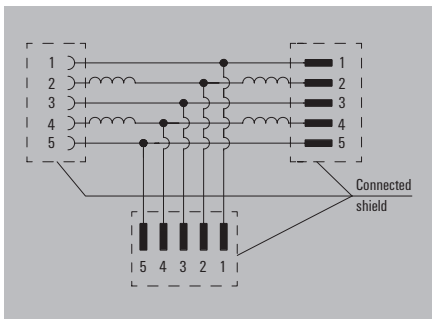


Ordering data

Type	QTY	Order No.
SAI-T-5S-PARA	1	1009370000

M12/M12

PROFIBUS



Ordering data

Type	QTY	Order No.
SAI-T-5-M12/M12 B-COD	1	1057940000

C

Panel feed-through
A-coded
B-coded

SAI-WDF

A-coded



SAI-WDF

B-coded



Ordering data

Note

Type	QTY	Order No.
SAI-WDF 5P M12 K	1	2427060000

Type	QTY	Order No.
SAI-WDF 5P B M12 K	1	2485310000

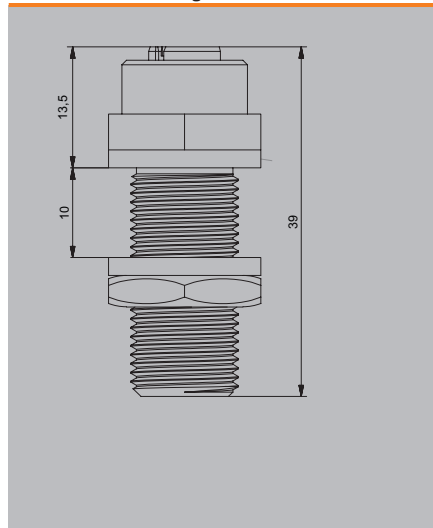
Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12 / M12
Cable diameter	
Wire cross-section, min. / max.	
Rated current	2 A
Rated voltage	70 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

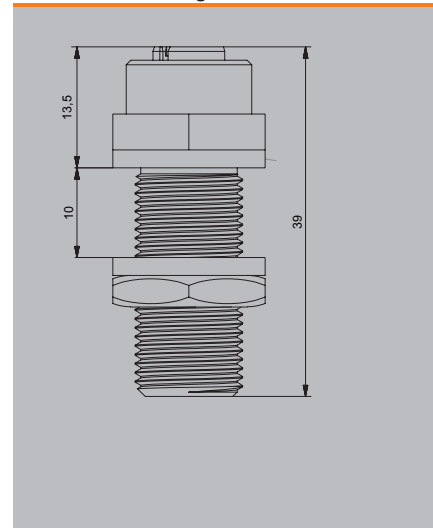
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12 / M12
Cable diameter	
Wire cross-section, min. / max.	
Rated current	2 A
Rated voltage	70 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12 / M12
Cable diameter	
Wire cross-section, min. / max.	
Rated current	2 A
Rated voltage	70 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



Dimensioned drawing



Protective caps for SAI distributors

Protects against external effects when the I/O is not in use.
The level of protection is only valid in screwed condition and was tested on the distributor indicated.

Protective cap M5

For SAI M5 distributors.
IP 67

**Ordering data**

Type	QTY	Order No.
SAI-SK M5	50	1855310000

Protective cap M8

For SAI M8 distributors.
IP 68

**Ordering data**

Type	QTY	Order No.
SAI-SK M8	50	1802760000

Protective cap M12

For SAI M12 distributors.
IP 68

**Ordering data**

Type	QTY	Order No.
SAI-SK-M12	30	9456050000

Protective cap M12

For SAI metal distributors.
IP 68

**Ordering data**

Type	QTY	Order No.
SAI-SK M12 MT	30	1802750000

Protective cap M12 IDC

For SAI distributors with IDC connection.
IP 67

**Ordering data**

Type	QTY	Order No.
SAI-SK-M12 IDC	10	1794850000

Protective cap M12 Universal

Suitable for SAI M12 - universal distributor and appropriate M12 cables.
IP 67

**Ordering data**

Type	QTY	Order No.
SAI-SK-M12-UNI	20	2330260000

Protective cap M12 connector

Protection from external influences. For open plugs.
For attaching to cable
IP 67

**Ordering data**

Type	QTY	Order No.
SAI-SK-M12 BU	1	8425960000

Protective cap M12 connector

Protects against external effects. For open plugs or sockets.
IP 20

**Ordering data**

Type	QTY	Order No.
SAI-SK Stecker M12	50	1781520000

M12, M8, M5 built-in plugs

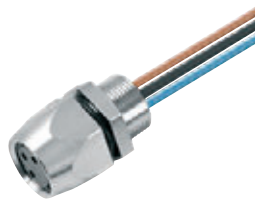
For connection of cables to sensors and actuators, different built-in connectors are needed at the device end.

M12



M12 plug in connectors are available with the following numbers of poles: 4 to 5-pole and 8-pole. Built-in connectors for M12 connections are all A-coded and have individual leads of 0.5 m. Fixing of the FP version is achieved with the supplied locknut. Also available are built-in connectors that can be screwed in from the front.

M8



M8 connector requirements are covered by the 3 and 4 pole built-in male and female connectors. Like the M12 built-in connectors, these have a locknut for fastening into a housing wall. These connectors have 0.5m long leads attached.

M5



Weidmüller also offers corresponding built-in connectors for the smallest of the plug in connectors, the M5. The M5 built-in connector is available in 3 and 4 pole versions. This plug in connector also has a locknut. The individual lead length with M5 built-in connectors is 0.2 m.

The cross sections of the individually attached leads are available from the technical data of the various families of plug in connectors.

A-coded

M12 (M16)

SAIE-M12



M12 (M16)

SAIE-M12 FP



Ordering data

Male	
4-pole	
5-pole	
8-pole	
12-pole	
Female	
4-pole	
5-pole	
8-pole	
12-pole	
Note	

Type	QTY	Order No.
SAIE-M12S-4-0.5U-M16	1	1861090000
SAIE-M12S-5-0.5U-M16	1	1861230000
SAIE-M12S-8-0.5U-M16	1	1861110000
SAIE-M12B-4-0.5U-M16	1	1861120000
SAIE-M12B-5-0.5U-M16	1	1836910000
SAIE-M12B-8-0.5U-M16	1	1861140000
Other versions on request		

Type	QTY	Order No.
SAIE-M12S-4-0.5U-FP-M16	1	1861160000
SAIE-M12S-5-0.5U-FP-M16	1	1861170000
SAIE-M12S-8-0.5U-FP-M16	1	1861180000
SAIE-M12S-12-0.5U-FP-M16	1	1283550000
SAIE-M12B-4-0.5U-FP-M16	1	1861190000
SAIE-M12B-5-0.5U-FP-M16	1	1856110000
SAIE-M12B-8-0.5U-FP-M16	1	1861210000
SAIE-M12B-12-0.5U-FP-M16	1	1289140000
FP with M16 cable gland FP = can be positioned as required		

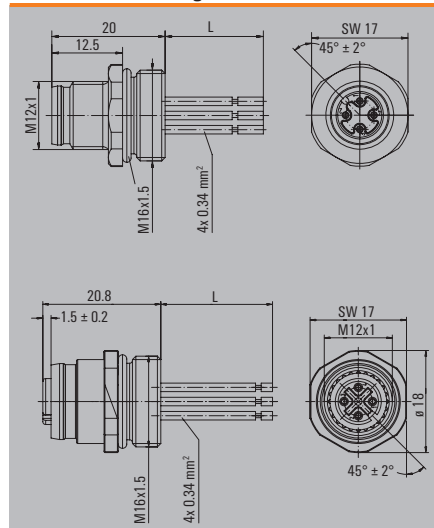
Technical data

Cable gland	
Housing main material	
connection thread	
Wire cross section	
Rated current	
Rated voltage (acc. to VDE standard 0110 ISO Group C)	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

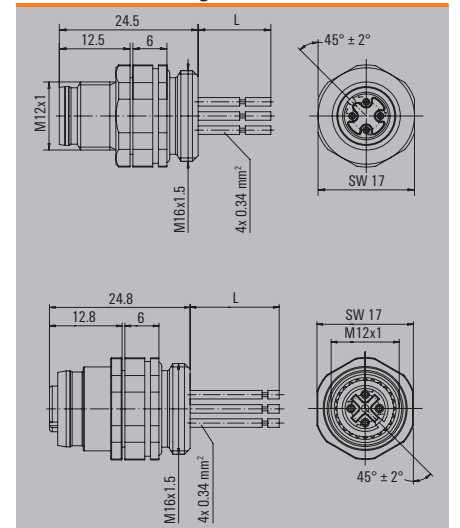
M 16
CuZn, nickel-plated
M12
0.34 (4- and 5-pole)/ 0.25 (8-pole)/ 0.14 (12-pole)
4 A (4- and 5-pole)/ 2 A (8-pole)/ 1.5 A (12-pole)
250 V (4-pole)/ 60 V (5-pole)/ 30 V (8 and 12-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

M 16
CuZn, nickel-plated
M12
0.34 (4- and 5-pole)/ 0.25 (8-pole)/ 0.14 (12-pole)
4 A (4- and 5-pole)/ 2 A (8-pole)/ 1.5 A (12-pole)
250 V (4-pole)/ 60 V (5-pole)/ 30 V (8 and 12-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



Dimensioned drawing



Built-in plugs

A-coded

M12 (PG 9)

SAIE-M12 PG



Ordering data

Male	
	4-pole
	5-pole
	8-pole
Female	
	4-pole
	5-pole
	8-pole
Note	

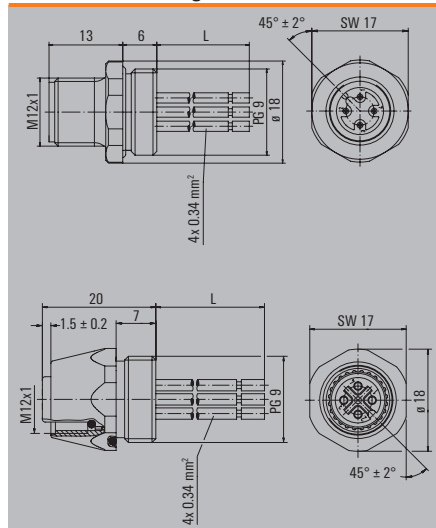
Type	QTY	Order No.
SAIE-M12S-4-0.5U-PG9	1	1861220000
SAIE-M12S-5-0.5U-PG9	1	1856120000
SAIE-M12S-8-0.5U-PG9	1	1861240000
with PG cable gland		
SAIE-M12B-4-0.5U-PG9	1	1861250000
SAIE-M12B-5-0.5U-PG9	1	1814890000
SAIE-M12B-8-0.5U-PG9	1	1861270000

Technical data

Cable gland	
Housing main material	
connection thread	
Wire cross section	
Rated current	
Rated voltage (acc. to VDE standard 0110 ISO Group C)	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

PG 9
CuZn, nickel-plated
M12
0.34 (4- and 5-pole) / 0.25 (8-pole)
4 A (4- and 5-pole) / 2 A (8-pole)
250 V (4-pole) / 125 V (5-pole) / 60 V (8-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



M8 (FP)

SAIE-M8S



M8 (HW)

SAIE-M8S



Ordering data

Male	8-pole
Female	8-pole
Note	

Type	QTY	Order No.
SAIE-M8S-8-0.2U-FP	1	1467590000
SAIE-M8B-8-0.2U-FP	1	1467630000

Type	QTY	Order No.
SAIE-M8S-8-0.2U-HW	1	1467620000
SAIE-M8B-8-0.2U-HW	1	1467640000

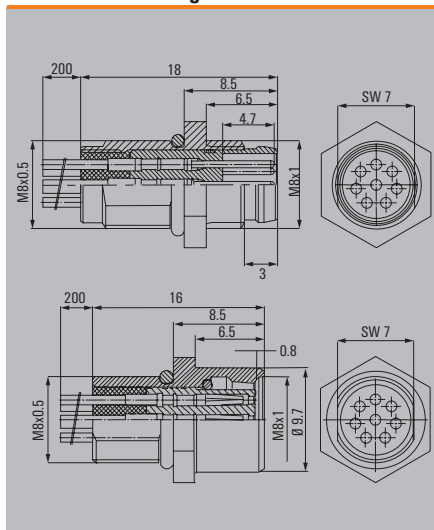
Technical data

Cable gland	
Housing main material	
connection thread	
Core cross-section	
Rated current	
Rated voltage (acc. to VDE standard 0110 ISO Group C)	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

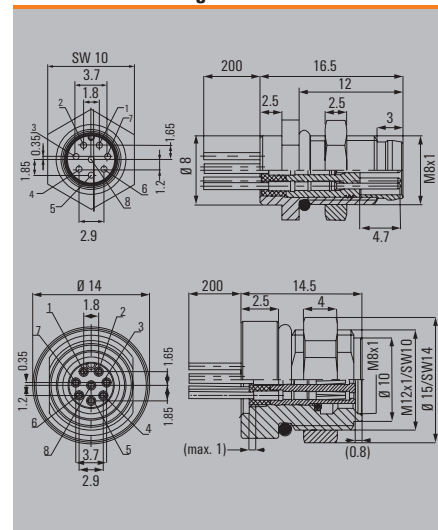
M 8
CuZn, nickel-plated
M8 thread
0.14 mm ²
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

M 8
CuZn, nickel-plated
M8 thread
0.14 mm ²
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



Dimensioned drawing



M8 (LP)

SAIE-M8S



Ordering data

Male	8-pole
Female	8-pole
Note	

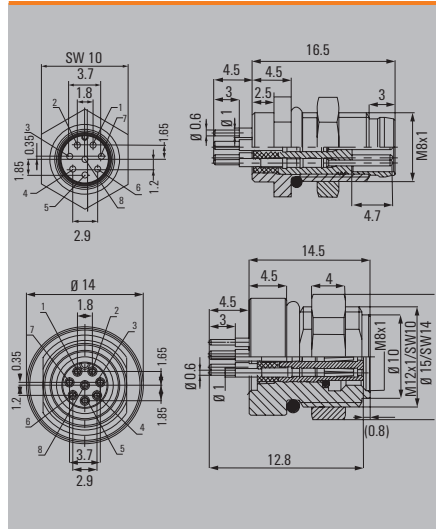
Type	QTY	Order No.
SAIE-M8S-8-TL-HW	20	1467610000
SAIE-M8B-8-TL-HW	1	1467650000

Technical data

Cable gland	
Housing main material	
connection thread	
Core cross-section	
Rated current	
Rated voltage (acc. to VDE standard 0110 ISO Group C)	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

M 8
CuZn, nickel-plated
M8 thread
1.5 A
30 V
-25...+85 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



M8

SAIE-M8R FP (snap-on interlock)



M8

SAIE-M8 FP



Ordering data

Male	
	3-pole
	4-pole
Female	
	3-pole
	4-pole
Note	

Type	QTY	Order No.
SAIE-M8R-3-0.5U-FP-M8	1	1861280000
SAIE-M8R-4-0.5U-FP-M8	1	1861290000
Fixing nut included FP = can be positioned as required		

Type	QTY	Order No.
SAIE-M8S-3-0.5U-FP-M8	1	1078730000
SAIE-M8S-4-0.5U-FP-M8	1	1078720000
SAIE-M8B-3-0.5U-FP-M8	1	1856130000
SAIE-M8B-4-0.5U-FP-M8	1	1856140000
Fixing nut included FP = can be positioned as needed		

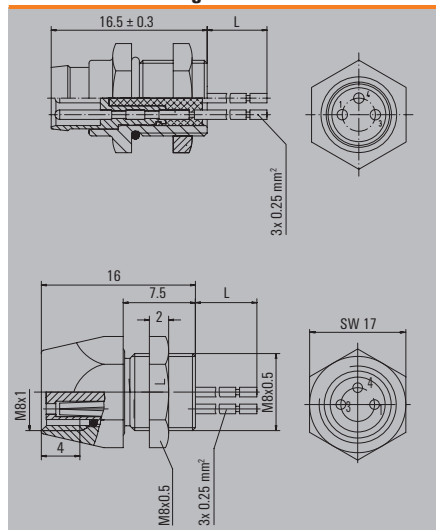
Technical data

Cable gland	
Housing main material	
connection thread	
Core cross-section	
Rated current	
Rated voltage (acc. to VDE standard 0110 ISO Group C)	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

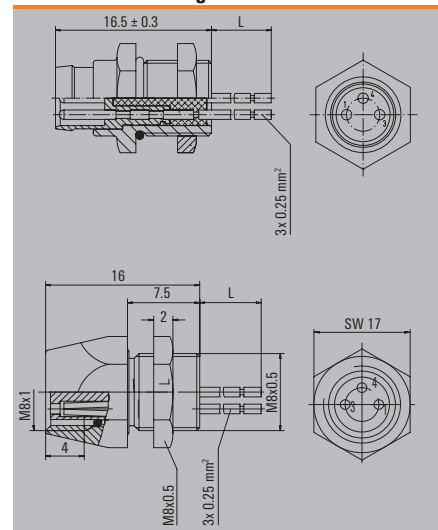
M 8
CuZn, nickel-plated
M8 snap
0.25 mm ²
4 A
60 V (3-pole) / 30 V (4-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

M 8
CuZn, nickel-plated
M8 thread
0.25 mm ²
4 A
60 V (3-pole) / 30 V (4-pole)
-30...+90 °C
IP67, when screwed in
Gold-plated

Dimensioned drawing



Dimensioned drawing



Built-in plugs

C

M5

SAIE-M5



Ordering data

Male	3-pole
	4-pole
Female	3-pole
	4-pole
Note	

Type	QTY	Order No.
SAIE-M5S-3-0.2U	1	1873050000
SAIE-M5S-4-0.2U	1	1873030000
SAIE-M5B-3-0.2U	1	1873060000
SAIE-M5B-4-0.2U	1	1873040000

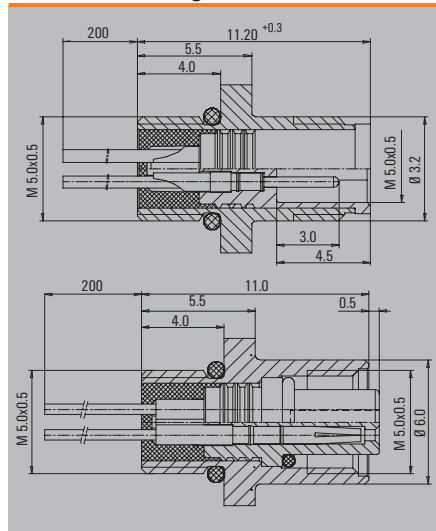
Fixing nut included

Technical data

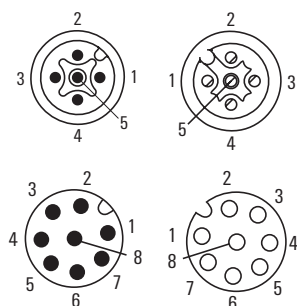
Cable gland	M 5
Housing main material	CuZn, nickel-plated
connection thread	M5
Core cross-section	0.14 mm ²
Rated current	1 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V
Temperature range of housing	-25...+80 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Approvals	EAC
Note	

Cable gland	M 5
Housing main material	CuZn, nickel-plated
connection thread	M5
Core cross-section	0.14 mm ²
Rated current	1 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V
Temperature range of housing	-25...+80 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Approvals	EAC
Note	

Dimensioned drawing

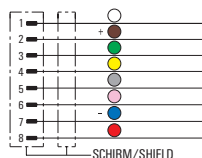
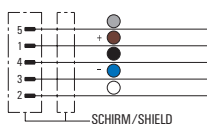


M12, open on one side
A-coded
shielded
Back panel mounting



Male

Female



Ordering data

Male, straight	
PUR	0.5 m
PUR	2.0 m
Female, straight	
PUR	0.5 m
PUR	2.0 m
Note	

	5-pole
SAIE-M12S-5S0.5U HW	1341230050
SAIE-M12S-5S2.0U HW	1341230200
SAIE-M12B-5S0.5U HW	1222270050
SAIE-M12B-5S2.0U HW	1222270000

	8-pole
SAIE-M12S-8S0.5U HW	1341240050
SAIE-M12S-8S2.0U HW	1341240200
SAIE-M12B-8S0.5U HW	1223650050
SAIE-M12B-8S2.0U HW	1223650000

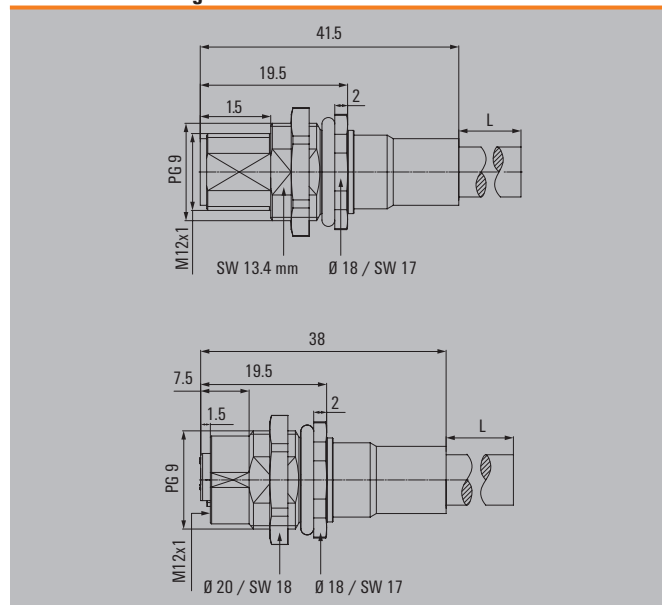
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Cable gland	PG 9
Housing main material	Zinc diecast, nickel-plated
connection thread	M12
Core cross-section	0.25 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-5 ... +70 °C
Protection degree	IP68
Contact surface	Gold-plated

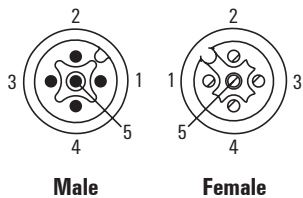
Dimensioned drawing



Built-in plugs

A-coded

M12



C

Ordering data

Male	5-pole
Female	5-pole
Note	

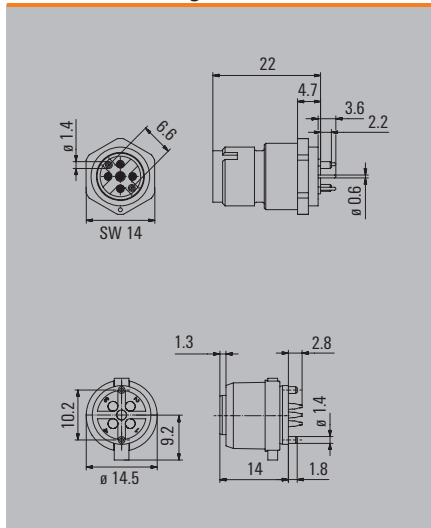
Type	QTY	Order No.
SAIE-M12S-5-TL	500	1312980000
SAIE-M12B-5-TL	500	1312970000

Technical data

Housing main material	Zinc diecast
connection thread	M12
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-20 ... +90 °C
Protection degree	IP68
Contact surface	Gold-plated
Approvals	EAC
Note	

Housing main material	Zinc diecast
connection thread	M12
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-20 ... +90 °C
Protection degree	IP68
Contact surface	Gold-plated
Approvals	EAC
Note	

Dimensioned drawing



A-coded

M12

SAIE-M12S



M12

SAIE-M12S



Ordering data

Male	
	4-pole
	5-pole
	8-pole
	12-pole
Female	
	4-pole
	5-pole
	8-pole
	12-pole
Note	

Type	QTY	Order No.
SAIE-M12S-4S-TL-HW-PG9	20	1467710000
SAIE-M12S-5S-TL-HW-PG9	20	1467720000
SAIE-M12S-8S-TL-HW-PG9	20	1467730000
SAIE-M12S-12S-TL-HW-PG9	20	1467740000
SAIE-M12B-4S-TL-HW-PG9	20	1467770000
SAIE-M12B-5S-TL-HW-PG9	20	1467780000
SAIE-M12B-8S-TL-HW-PG9	20	1467790000
SAIE-M12B-12S-TL-HW-PG9	20	1467810000

Type	QTY	Order No.
SAIEW-M12S-4S-TL-HW-PG9	1	1467750000
SAIEW-M12S-5S-TL-HW-PG9	15	1467760000
SAIEW-M12B-4S-TL-HW-PG9	15	1467820000
SAIEW-M12B-5S-TL-HW-PG9	15	1467830000

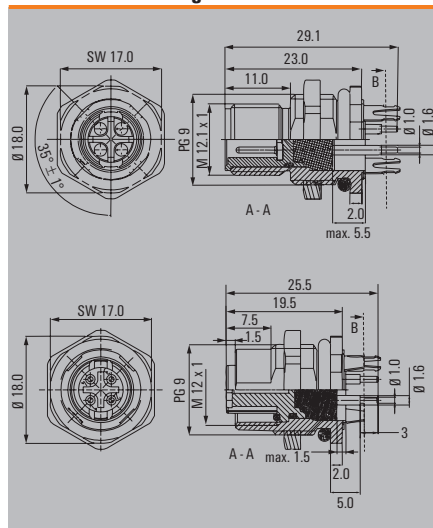
Technical data

Housing main material	Zinc diecast
connection thread	M12
Rated current	2 A
Rated voltage	30 V
Temperature range of housing	-20 ... +90 °C
Protection degree	IP67, when fully mounted
Contact surface	Gold-plated
Approvals	EAC
Note	

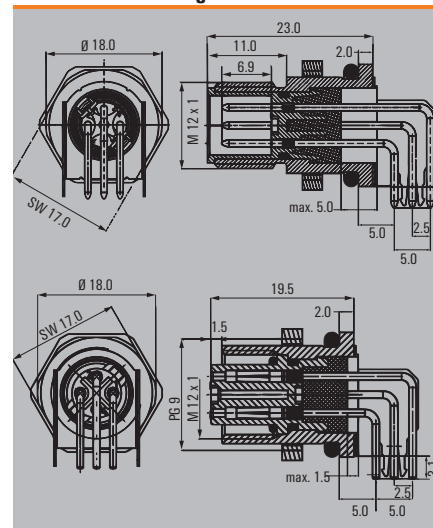
Housing main material	Zinc diecast
connection thread	M12
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-20 ... +90 °C
Protection degree	IP67, when fully mounted
Contact surface	Gold-plated
Approvals	EAC
Note	

Housing main material	Zinc diecast
connection thread	M12
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-20 ... +90 °C
Protection degree	IP67, when fully mounted
Contact surface	Gold-plated
Approvals	EAC
Note	

Dimensioned drawing

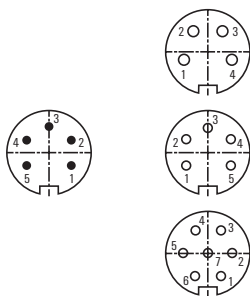


Dimensioned drawing



Built-in plugs

M16 solder connection



Male

Female

Ordering data

Male	
	5-pole, PG 9
Female	
	4-pole
	5-pole
	7-pole
Note	

Technical data

Cable gland	
Type of connection	
Housing main material	
connection thread	
Wire cross-section, min. / max.	
Rated current	
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

SAIE



SAIE



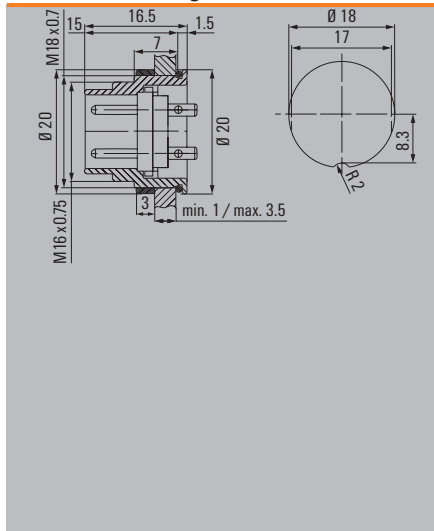
Type	QTY	Order No.
SAIE-M16S-5-HWM	1	1269790000
Note		

M 18
Solder connection
Zinc diecast, nickel-plated
M16
0.14...0.75 mm ²
6 A
250 V
-30...+90 °C
IP67, when screwed in
Ag (silver)
Note

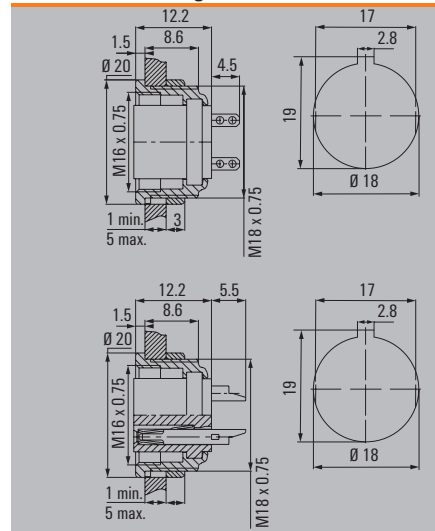
Type	QTY	Order No.
SAIE-M16B-4-L	20	1326720000
SAIE-M16B-5-L	20	1326730000
SAIE-M16B-7-L	20	1326740000
Note		

M 18
Solder connection
Zinc diecast, nickel-plated
M16
0.14...0.75 mm ²
6 A
250 V
-40 ... +85 °C
IP40
Ag (silver)
Note

Dimensioned drawing



Dimensioned drawing



Introduction



Valve plugs for custom cables are often incorporated when designing special machines. Such plugs are used to connect solenoid valves.

Weidmüller valve plugs are available in all customary forms. The range includes form A, form B and form C to industry standards and to DIN.

These valve plugs are available without circuitry in 3-pole and 4-pole versions. A flat gasket seal is included which, when screwed on, guarantees IP 65 protection.

Legend

Designation code	
VS-	Valve plug
OB-	Without cables
3P, 4P-	No. of poles
7, 9, 11-	Cable entry (PG)
H	High form
T	Transparent housing
3P	2 + PE
4P	3 + PE
LD	Light-emitting diode (LED)

Type of valve plug	Contact gap	
A	18.0 mm	
B	11.0 mm	to industry standard
BD	10.0 mm	to DIN
C	9.4 mm	to industry standard
CD	8.0 mm	to DIN

Design type A

SAIB-VSA

SAIB-VSA



Ordering data

PG9 cable passage	
	3-pole
	4-pole
PG11 cable passage	
	3-pole
	4-pole
Note	

Type	QTY	Order No.
SAIB-VSA-3P/250/9-OB	1	1873070000
SAIB-VSA-4P/250/9-OB	1	1873080000
SAIB-VSA-3P/250/11-OB	1	1873090000
SAIB-VSA-4P/250/11-OB	1	1873100000
Note		

Type	QTY	Order No.
SAIB-VSA-3P/230/9-H/0B	1	1873130000
SAIB-VSA-4P/230/9-H/0B	1	1873140000
SAIB-VSA-3P/230/11-H/0B	1	1873150000
SAIB-VSA-4P/230/11-H/0B	1	1873160000
Note		

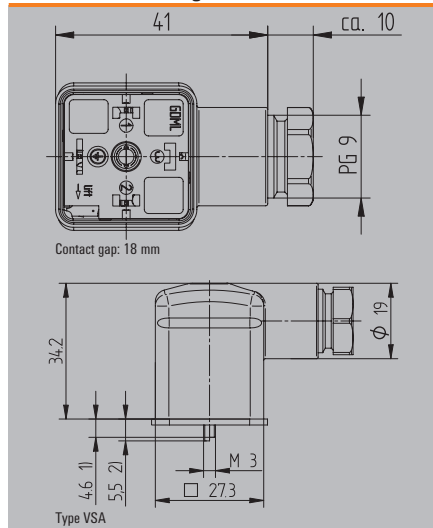
Technical data

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

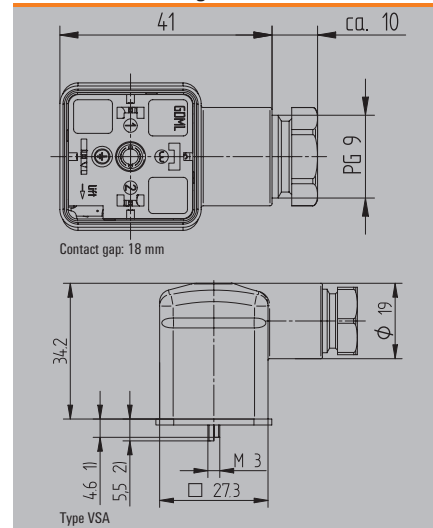
Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	230 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	230 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Dimensioned drawing



Dimensioned drawing



Design type A

SAIB-VSA

SAIB-VSA



Ordering data

PG9 cable passage	3-pole
	4-pole
PG11 cable passage	3-pole
	4-pole
Note	

Type	QTY	Order No.
SAIB-VSA-3P/24/9/LD	1	1873120000

Type	QTY	Order No.
SAIB-VSA-3P/230/9/LD	1	1873110000

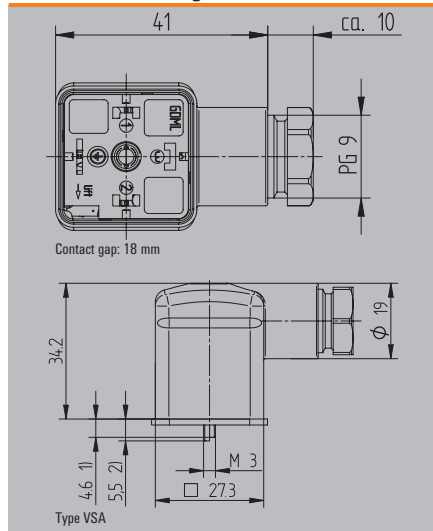
Technical data

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	230 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

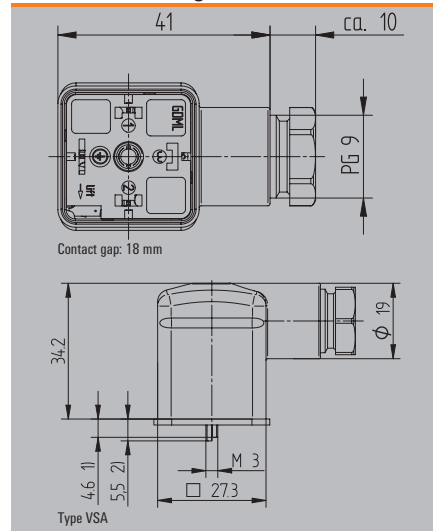
Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	230 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Design A (18 mm)
Cable diameter	6...8 mm (PG9) / 8...10 mm (PG11)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	230 V
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Dimensioned drawing



Dimensioned drawing



Design type B

SAIB-VSB

SAIB-VSB



Ordering data

PG9 cable passage	3-pole
Note	

Type	QTY	Order No.
SAIB-VSB-3P/250/9-0B	1	1873170000

Type	QTY	Order No.
SAIB-VSB-3P/24/9/LD	1	1873180000

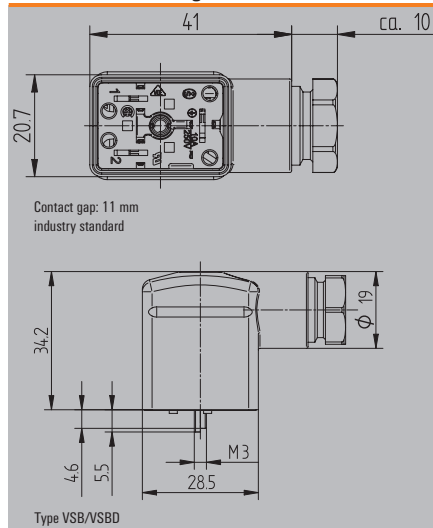
Technical data

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Industrial design B (11 mm)
Cable diameter	6...8 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

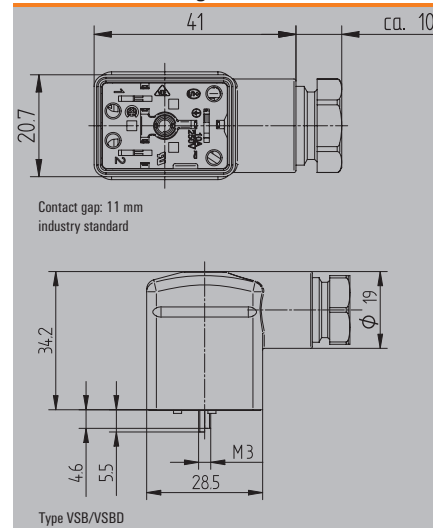
Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Industrial design B (11 mm)
Cable diameter	6...8 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Industrial design B (11 mm)
Cable diameter	6...8 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Dimensioned drawing



Dimensioned drawing



Design type BD

SAIB-VSBD



Ordering data

PG9 cable passage	3-pole
Note	

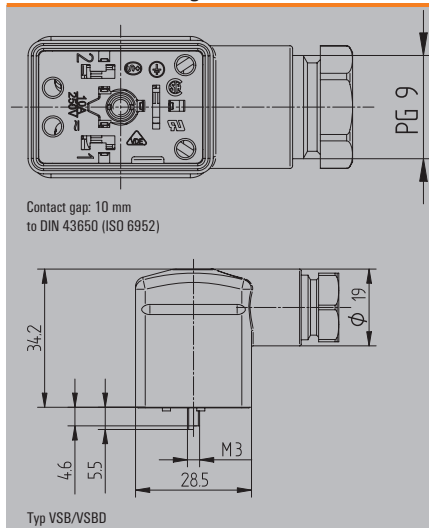
Type	QTY	Order No.
SAIB-VSBD-3P/250/9-0B	1	1873190000

Technical data

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	DIN design B (10 mm)
Cable diameter	6...8 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	DIN design B (10 mm)
Cable diameter	6...8 mm (PG9)
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Dimensioned drawing



Design type C/CD

SAIB-VSC

SAIB-VSCD



Ordering data

PG7 cable passage	
	3-pole
	4-pole
Note	

Type	QTY	Order No.
SAIB-VSC-3P/250/7-0B	1	1873200000
SAIB-VSC-4P/250/7-0B	1	1873210000
Note		

Type	QTY	Order No.
SAIB-VSCD-3P/250/7-0B	1	1873220000
SAIB-VSCD-4P/250/7-0B	1	1873230000
Note		

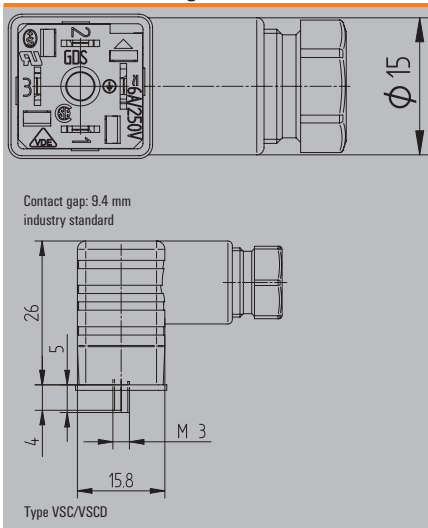
Technical data

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Industrial design C (9.4 mm)
Cable diameter	4...6 mm
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

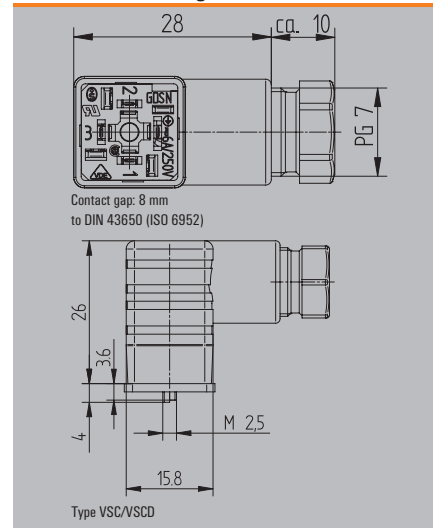
Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	Industrial design C (8 mm)
Cable diameter	4...6 mm
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Type of connection	Screw connection
Housing main material	PA 6 GF
Coding	DIN design C (8 mm)
Cable diameter	4...6 mm
Connection cross-section min. / max.	0.34...1.5 mm ²
Rated current	10 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-25...+85 °C
Protection degree	IP65
Contact surface	Ni
Note	

Dimensioned drawing



Dimensioned drawing



Protective sleeve adapter



In machine construction, it is very common for cables to be run in the open air. To be able to protect cables from damage through a wide range of causes such as rodents, it is some-times necessary to protect the cable with a protective sleeve.

To fasten the protective sleeve to a plug in connector designed for custom assembly, Weidmüller offers a protective sleeve adapter. This adapter is used instead of the PG7 cable gland. The protective sleeve is quick to fit, protecting the cable straight away.

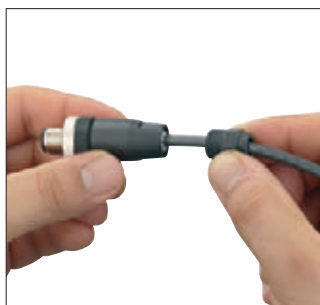
Ordering data

Type	Qty.	Order No.
SAI-SSA-PG7	10	1938300000

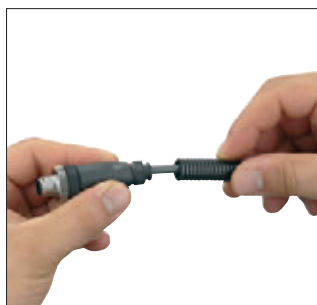
Fitting a protective sleeve adapter



1. Unscrewing the PG7 cable gland



2. Screwing on the protective sleeve adapter

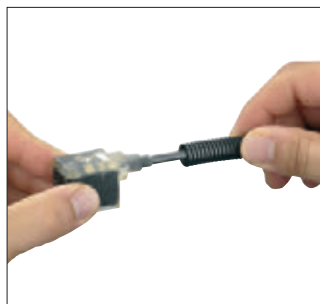


3. Fitting a PG7 protective sleeve

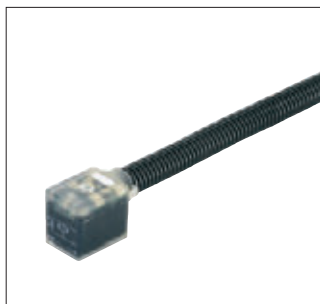


4. Finished

Connection of protective sleeve adapter to other plug connectors



1. Connect the protective tubing to the tube union



2. Finished

The protective sleeve is also suitable for protecting cables with valve plugs. A corresponding connecting piece is already present on valve plugs with moulded seal.

Device connectors

Device connectors	Introduction	D.2
	Quick finder	D.4
	Built-in plugs	D.6

Convenient design and assembly of reliable device solutions

Innovative M8 and M12 PCB connectors

In many areas of machine construction, M8 or M12 PCB connectors are the standard connectors used today. Not only have they been tried and tested in our SAI distributors, they are also used anywhere where harsh environmental conditions require a device design with especially reliable connections.

In addition to excellent connection quality, our M8 and M12 built-in connectors also offer very convenient installation. Certain M8 and M12 types may be soldered to the installation wall at the same distance. The PCB and housing can also be assembled separately before the nut and plug-in insert are combined in the end device.

The new M8 and M12 built-in connectors optimise proven standards while making it extremely easy and convenient to configure IP6x devices. They are suitable for reflow soldering and are available in a number of different variants for different soldering methods.



In the field of equipment manufacturing for the IP6x world, the smart M8 and M12 plug-in connectors offer the perfect solutions. They ensure reliable connections with a convenient device design and efficient final assembly.

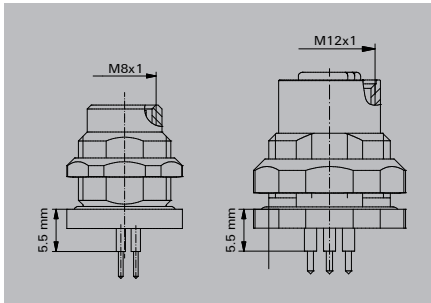
Your special advantages:

Standardised concept

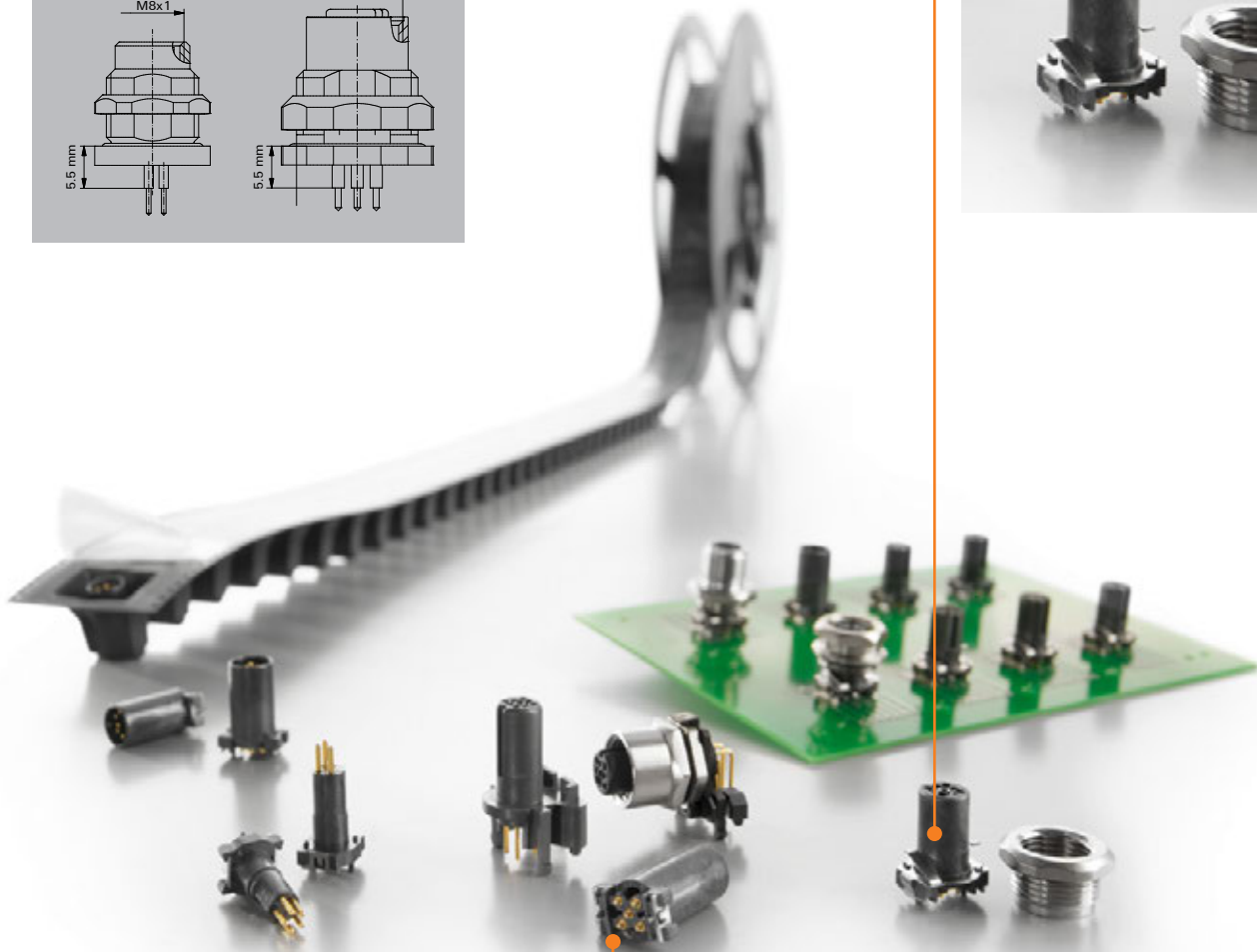
All of the components in the entire M8 or M12 plug-in connector series are perfectly coordinated to one another, making design and assembly significantly easier.

Sophisticated system

Regardless of whether it's an M8 or M12, both plug-in connector types are characterised by a uniform distance from the PCB to the metal housing.

**Two-component plug-in connector**

Plug-in insert for the PCB; metal nut for the housing. These create the finished M-plug when assembled.

**Reflow-suitable solution**

The implementation of reflow solutions for SMD and THR assembly means that the M8 or M12 inserts can be handled in any soldering process.

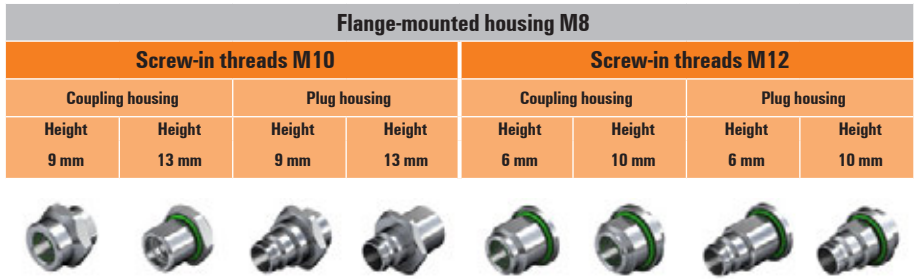
**SAI lines are the perfect complement**

At Weidmüller, you will find a wide range of complementary products in the form of lines and customisable plug-in connectors for field wiring.



Quick finder

Quick finder for dome and Flange-mounted housing



	Mating profile	No. of poles	M8 Dom	Flange-mounted housing M8							
				Screw-in threads M10				Screw-in threads M12			
				Coupling housing		Plug housing		Coupling housing		Plug housing	
Height	Height	Height	Height	Height	Height	Height	Height				
				9 mm	13 mm	9 mm	13 mm	6 mm	10 mm	6 mm	10 mm
MB plug		3-pole	2421750000			X	X			X	X
		3-pole with shielding	2421810000			X	X			X	X
		4-pole	2421870000			X	X			X	X
		4-pole with shielding	2421930000			X	X			X	X
		B-coded, 5-pole	2421990000			X	X			X	X
		B-coded, 5-pole with shielding	2422050000			X	X			X	X
		8-pole	2422110000			X	X			X	X
		8-pole with shielding	2422170000			X	X			X	X
MB socket		3-pole	2421720000	X	X			X	X		
		3-pole with shielding	2421780000	X	X			X	X		
		4-pole	2421840000	X	X			X	X		
		4-pole with shielding	2421900000	X	X			X	X		
		B-coded, 5-pole	2421960000	X	X			X	X		
		B-coded, 5-pole with shielding	2422020000	X	X			X	X		
		8-pole	2422080000	X	X			X	X		
		8-pole with shielding	2422140000	X	X			X	X		
Possible locknut				2424560000				2424570000			

Note: The M8/M12 flange-mounted housing and dome can be found on the following pages.

Flange-mounted housing M12		
Screw-in threads M14		
Coupling housing		Plug housing
Height	Height	Height
9 mm	13 mm	9 mm



Mating profile	No. of poles	M12 Dom	2423920000	2423950000	2423980000
----------------	--------------	---------	------------	------------	------------

M12 plug		4-pole	2422540000		X
		4-pole with shielding	2423500000		X
		B-coded, 4-pole with shielding	2422720000		X
					X
		5-pole	2422600000		X
	5-pole with shielding	2422560000		X	
		B-coded, 5-pole with shielding	2422780000		X
					X
		8-pole	2422420000		X
	8-pole with shielding	2423620000			X

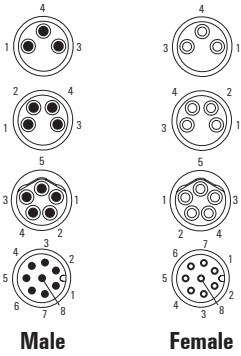
M12 socket		4-pole	2422060000	X	X
		4-pole with shielding	2422180000	X	X
		B-coded, 4-pole with shielding	2422840000	X	X
				X	X
		D-coded, 4-pole with shielding	2422960000	X	X
				X	X
		5-pole	2422120000	X	X
	5-pole with shielding	2422240000	X	X	
		B-coded, 5-pole with shielding	2422900000	X	X
			X	X	
		8-pole	2422480000	X	X
	8-pole with shielding	2423380000	X	X	

Possible locknut	2424560000
------------------	------------

Note: The M8/M12 flange-mounted housing and dome can be found on the following pages.

Built-in plugs

**M8
Dip solder
one-piece**



Rear panel mounting

Board-to-board distance: 5.5 mm



Ordering data

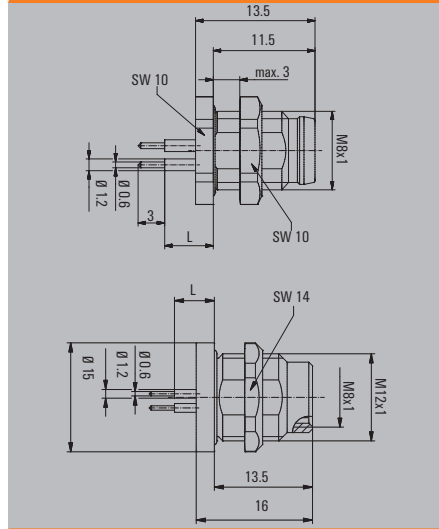
Male, straight	
	3-pole
	4-pole
	B-coded, 5-pole
	8-pole
Female, straight	
	4-pole
	B-coded, 5-pole
	8-pole
Note	

Type	QTY	Order No.
SAIE-M8S-3-H5.5TL	10	2421570000
SAIE-M8S-4-H5.5TL	10	2421580000
SAIE-M8S-5B-H5.5TL	10	2421590000
SAIE-M8S-8-H5.5TL	10	2421690000
SAIE-M8B-4-H5.5TL	10	2421610000
SAIE-M8B-5B-H5.5TL	10	2421630000
SAIE-M8B-8-H5.5TL	10	2421650000

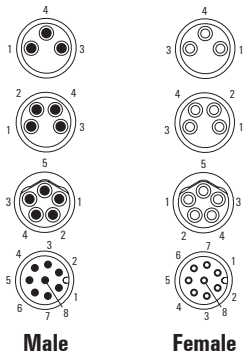
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	Pin: M8 / Socket: M12
Mounting torque range	0.8 Nm
Note	

Dimensioned drawing



**M8, dip solder
two-piece
shielded**



Male

Female

Ordering data

Male, straight	
	3-pole
	4-pole
Female, straight	
	4-pole
	5-pole
	8-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	
Rated current	
Temperature range	
Protection degree	
Contact surface	
Housing main material	
connection thread	
Tightening torque	
Mounting thread	
Mounting torque range	
Note	

Rear panel mounting

Board-to-board distance: 6 mm



Type	QTY	Order No.
SAIE-M8S-3S-H6TL	25	2423490000
SAIE-M8S-4S-H6TL	25	2423610000
SAIE-M8B-5S-H6TL	25	2423700000
SAIE-M8B-8S-H6TL	25	2423400000
Note		

Rated voltage (3-pole) / 30 V (4,5- and 8-pole)	
Rated current	
Temperature range	
Protection degree	
Contact surface	
Housing main material	
connection thread	
Tightening torque	
Mounting thread	
Mounting torque range	
Note	

Rear panel mounting

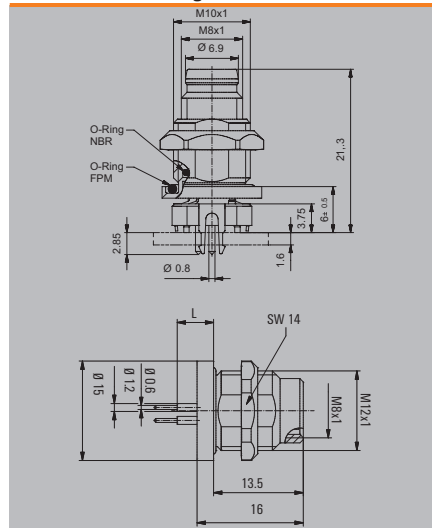
Board-to-board distance: 10 mm



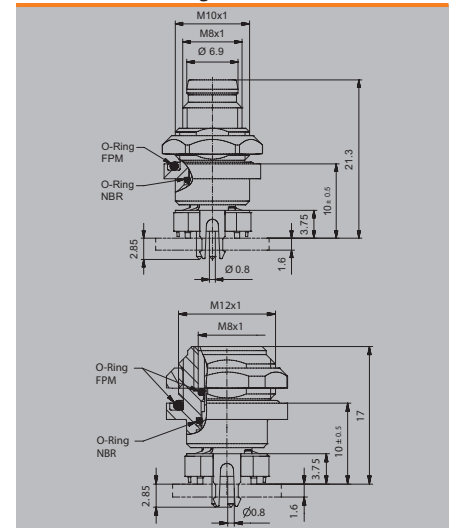
Type	QTY	Order No.
SAIE-M8S-3S-H10TL	25	2423520000
SAIE-M8S-4S-H10TL	25	2423640000
SAIE-M8B-4S-H10TL	25	2423580000
SAIE-M8B-8S-H10TL	25	2423730000
Note		

Rated voltage (3-pole) / 30 V (4,5- and 8-pole)	
Rated current	
Temperature range	
Protection degree	
Contact surface	
Housing main material	
connection thread	
Tightening torque	
Mounting thread	
Mounting torque range	
Note	

Dimensioned drawing

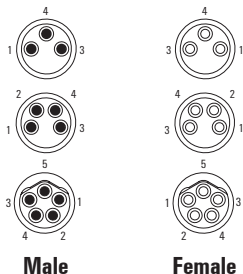


Dimensioned drawing



Built-in plugs

M8, dip solder two-piece shielded



Front mounting

Board-to-board distance: 9 mm



Similar to illustration

Front mounting

Board-to-board distance: 13 mm



Similar to illustration

Ordering data

Male, straight	3-pole
Female, straight	4-pole
	5-pole
Note	

Type	QTY	Order No.
SAIE-M8S-3S-F9TL	25	2423430000
SAIE-M8B-4S-F9TL	25	2423550000

Type	QTY	Order No.
SAIE-M8S-3S-F13TL	25	2423460000
SAIE-M8B-5S-F13TL	25	2423670000

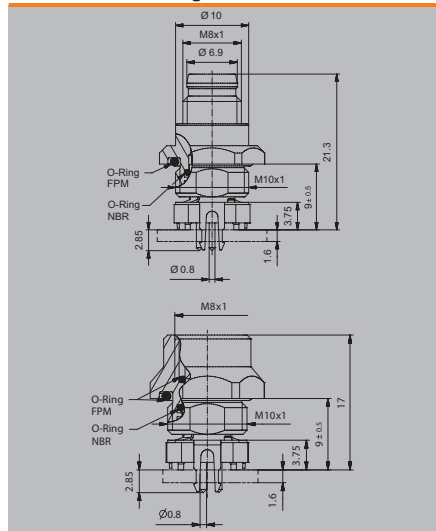
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

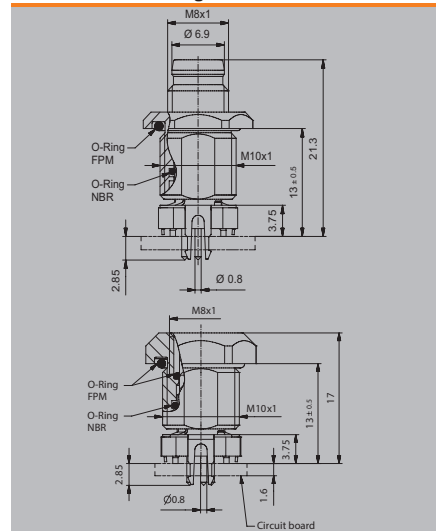
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

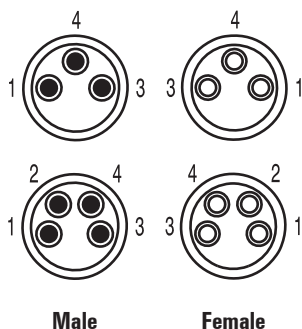
Dimensioned drawing



Dimensioned drawing



M8
Dip solder
two-piece
shielded



Ordering data

Male, angled	
3-pole	
4-pole	
Female, angled	
3-pole	
4-pole	
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	Pin: M8 / Socket: M12
Mounting torque range	0.8 Nm
Note	

Rear panel mounting

Board-to-board distance: 8 mm



Rear panel mounting

Board-to-board distance: 12 mm



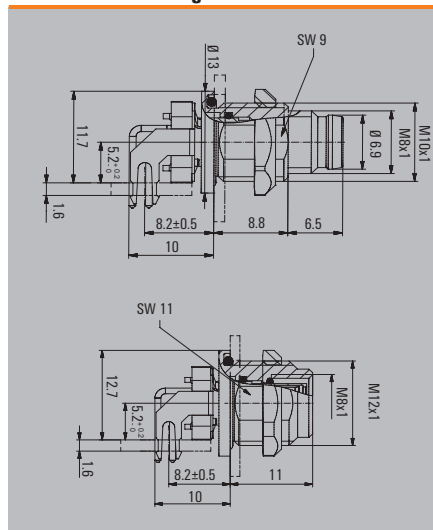
Type	QTY	Order No.
SAIEW-M8S-3S-H8TL	10	2424300000
SAIEW-M8S-4S-H8TL	10	2424420000
SAIEW-M8B-3S-H8TL	10	2424250000
SAIEW-M8B-4S-H8TL	10	2424360000

Type	QTY	Order No.
SAIEW-M8S-3S-H12TL	10	2424330000
SAIEW-M8S-4S-H12TL	10	2424450000
SAIEW-M8B-3S-H12TL	10	2424280000
SAIEW-M8B-4S-H12TL	10	2424390000

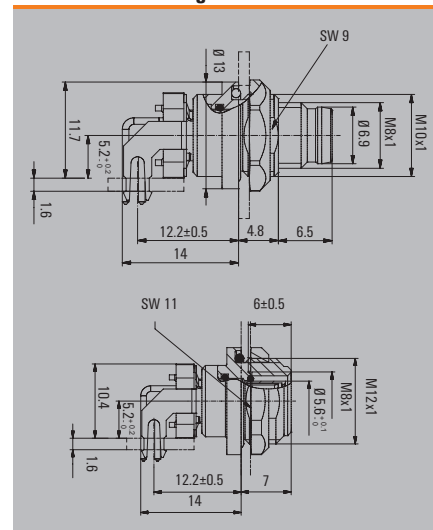
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	Pin: M8 / Socket: M12
Mounting torque range	0.8 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	Pin: M8 / Socket: M12
Mounting torque range	0.8 Nm
Note	

Dimensioned drawing

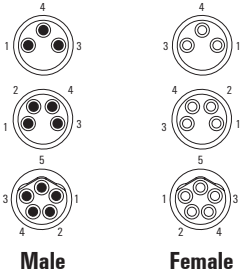


Dimensioned drawing



Built-in plugs

**M8
THR
two-piece**



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

Male, straight	
	3-pole
	4-pole
Female, straight	
	3-pole
	5-pole
Note	

Type	QTY	Order No.
SAIE-M8S-3-F9THR	25	2422860000
SAIE-M8S-4-F9THR	25	2423070000
SAIE-M8B-3-F9THR	25	2422800000
SAIE-M8B-5-F9THR	25	2423250000

Type	QTY	Order No.
SAIE-M8S-3-F13THR	25	2422890000
SAIE-M8S-4-F13THR	25	2423100000
SAIE-M8B-3-F13THR	25	2422830000
SAIE-M8B-5-F13THR	25	2423280000

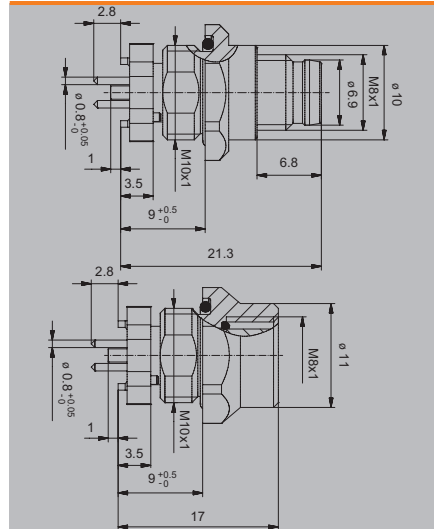
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

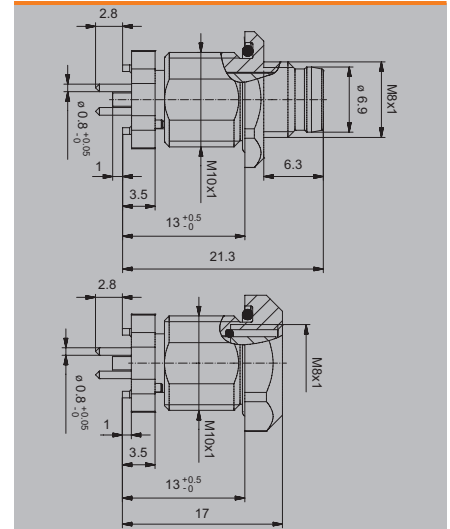
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

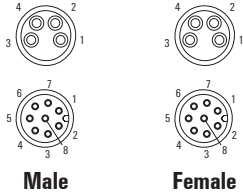
Dimensioned drawing



Dimensioned drawing



**M8
THR**
two-piece



Rear panel mounting

Board-to-board distance: 6 mm



Rear panel mounting, shielded

Board-to-board distance: 10 mm



Ordering data

Male, straight	4-pole
Female, straight	4-pole 8-pole
Note	

Type	QTY	Order No.
SAIE-M8S-4-H6THR	25	2423130000
SAIE-M8B-4-H6THR	25	2422980000

Type	QTY	Order No.
SAIE-M8S-4S-H10THR	25	2423220000
SAIE-M8B-8S-H10THR	25	2423370000

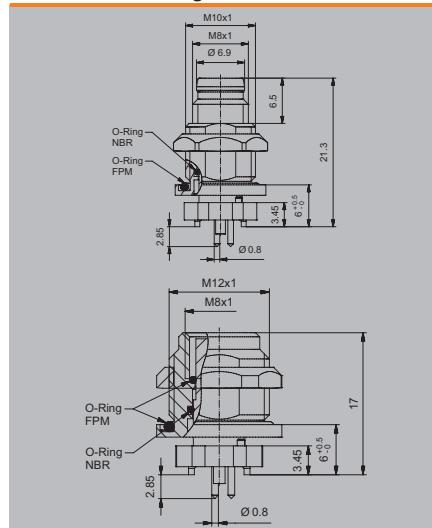
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

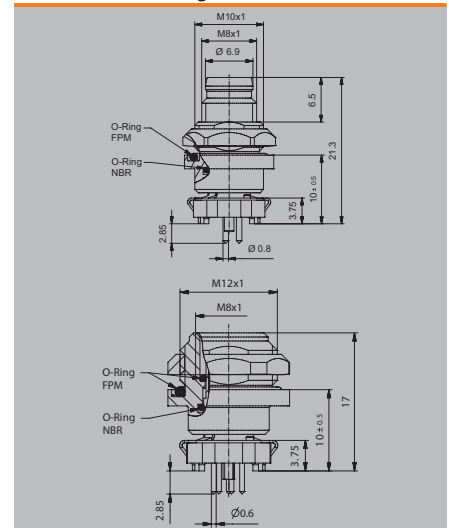
30 V
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M10 / Socket: M12
0.8 Nm

30 V
4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M8
M8: 0.5 Nm
Pin: M10 / Socket: M12
0.8 Nm

Dimensioned drawing

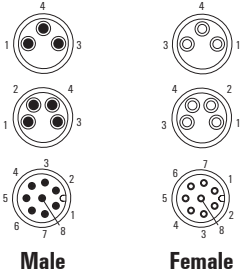


Dimensioned drawing



Built-in plugs

**M8
THR
two-piece
shielded**



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

Male, straight	
	3-pole
	4-pole
Female, straight	
	4-pole
	8-pole
Note	

Type	QTY	Order No.
SAIE-M8S-3S-F9THR	25	2422920000
SAIE-M8S-4S-F9THR	25	2423160000
SAIE-M8B-4S-F9THR	25	2423010000
SAIE-M8B-8S-F9THR	25	2423310000

Type	QTY	Order No.
SAIE-M8S-3S-F13THR	25	2422950000
SAIE-M8B-4S-F13THR	25	2423040000
SAIE-M8B-8S-F13THR	25	2423340000

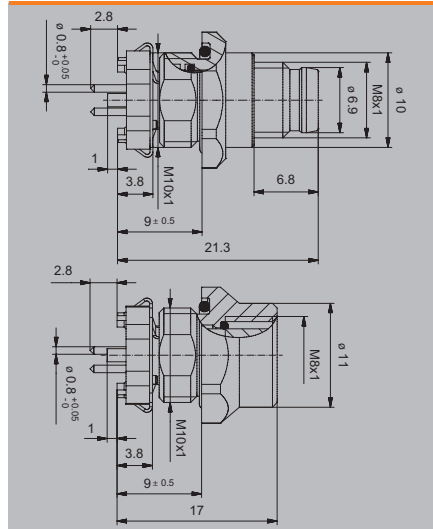
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-, 5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

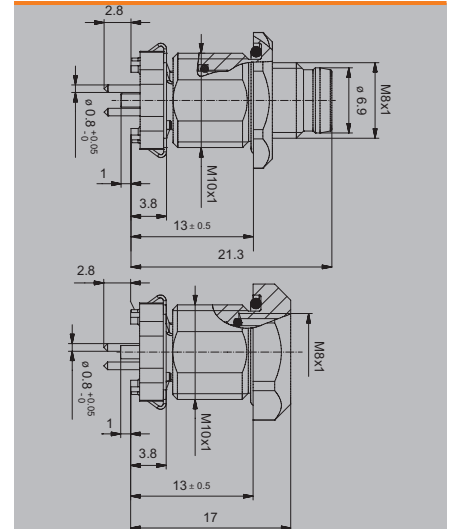
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-, 5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-, 5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

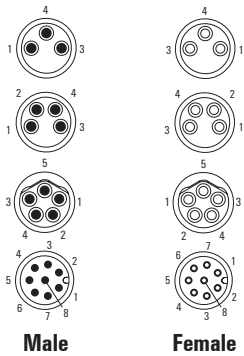
Dimensioned drawing



Dimensioned drawing



M8
THR
DOM



Male

Female

Ordering data

Male, straight	
3-pole	SAID-M8S-3-THR
4-pole	SAID-M8S-4-THR
5-pole	SAID-M8S-5-THR
8-pole	SAID-M8S-8-THR
Female, straight	
3-pole	SAID-M8B-3-THR
4-pole	SAID-M8B-4-THR
5-pole	SAID-M8B-5-THR
8-pole	SAID-M8B-8-THR

Note

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
 Rated current
 Temperature range
 Protection degree
 Contact surface
 Housing main material
 connection thread
 Tightening torque
 Mounting thread
 Mounting torque range

Note

Unshielded



Shielded



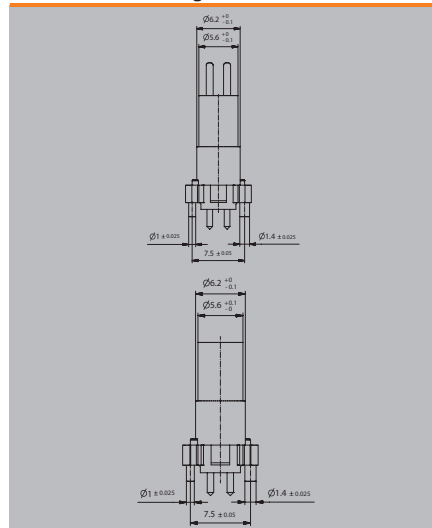
Type	QTY	Order No.
SAID-M8S-3-THR	25	2423790000
SAID-M8S-4-THR	25	2423910000
SAID-M8S-5-THR	25	2424030000
SAID-M8S-8-THR	25	2424150000
SAID-M8B-3-THR	25	2423760000
SAID-M8B-4-THR	25	2423880000
SAID-M8B-5-THR	25	2424000000
SAID-M8B-8-THR	25	2424130000

60 V (3-pole) / 30 V (4-,5- and 8-pole)
 4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
 -25...95 °C
 IP67
 Au (Gold)
 LCP
 M8
 M8: 0.5 Nm

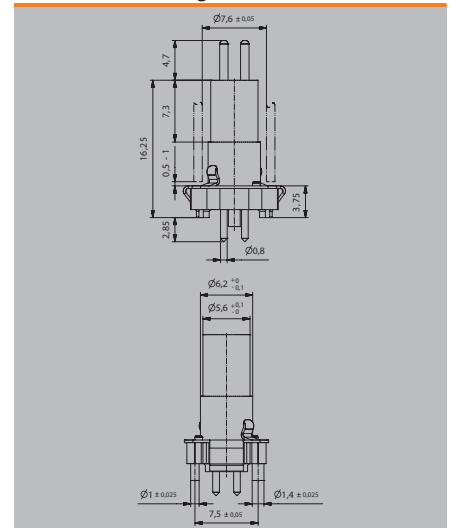
Type	QTY	Order No.
SAID-M8S-3S-THR	25	2423850000
SAID-M8S-4S-THR	25	2423970000
SAID-M8S-5S-THR	25	2424090000
SAID-M8S-8S-THR	25	2424220000
SAID-M8B-3S-THR	25	2423820000
SAID-M8B-4S-THR	25	2423940000
SAID-M8B-5S-THR	25	2424060000
SAID-M8B-8S-THR	25	2424190000

60 V (3-pole) / 30 V (4-,5- and 8-pole)
 4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
 -25...95 °C
 IP67
 Au (Gold)
 LCP
 M8
 M8: 0.5 Nm

Dimensioned drawing

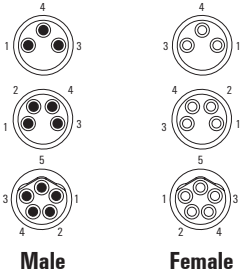


Dimensioned drawing



Built-in plugs

**M8
SMT
two-piece**



Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



Ordering data

Male, straight	
	3-pole
	4-pole
Female, straight	
	3-pole
	5-pole
Note	

Type	QTY	Order No.
SAIE-M8S-3-F9SMT	25	2422260000
SAIE-M8S-4-F9SMT	25	2422470000
SAIE-M8B-3-F9SMT	25	2422200000
SAIE-M8B-5-F9SMT	25	2422650000

Type	QTY	Order No.
SAIE-M8S-3-F13SMT	25	2422290000
SAIE-M8S-4-F13SMT	25	2422500000
SAIE-M8B-3-F13SMT	25	2422230000
SAIE-M8B-5-F13SMT	25	2422680000

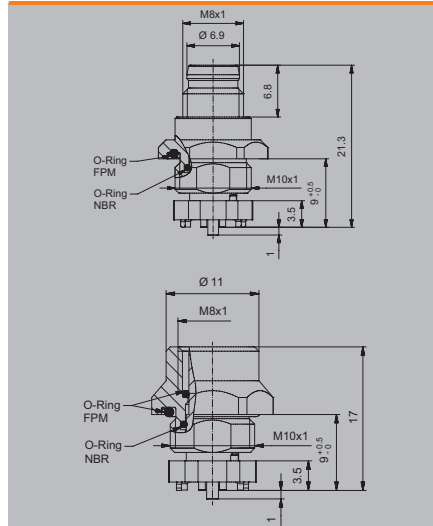
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

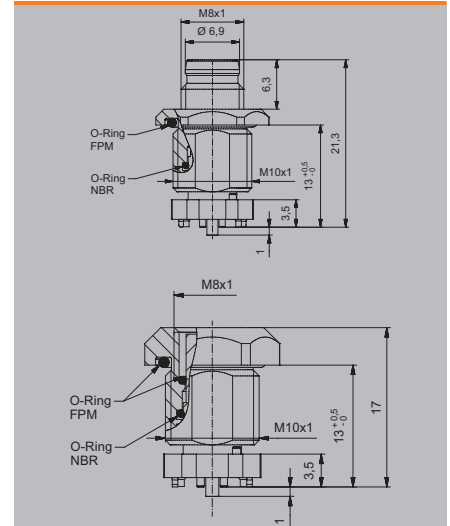
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

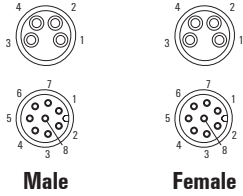
Dimensioned drawing



Dimensioned drawing



**M8
SMT
two-piece**



Rear panel mounting

Board-to-board distance: 6 mm



Rear panel mounting, shielded

Board-to-board distance: 10 mm



Ordering data

Male, straight	4-pole
Female, straight	4-pole 8-pole
Note	

Type	QTY	Order No.
SAIE-M8S-4-H6SMT	25	2422530000
SAIE-M8B-4-H6SMT	25	2422380000
Note		

Type	QTY	Order No.
SAIE-M8S-4S-H10SMT	25	2422620000
SAIE-M8B-8S-H10SMT	25	2422770000
Note		

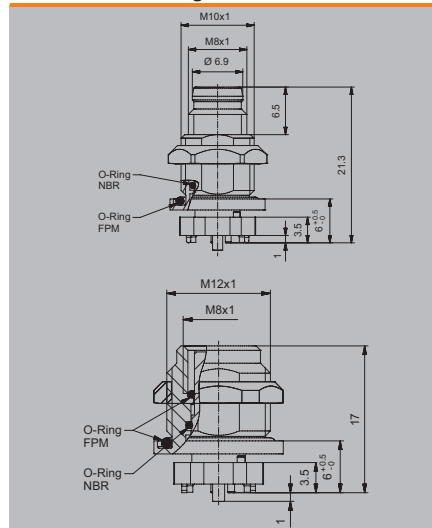
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	30 V
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

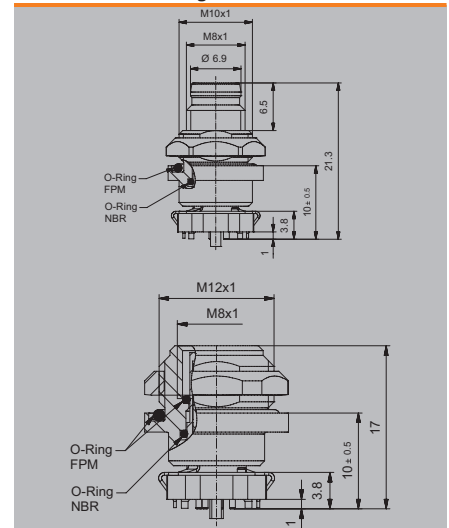
Rated voltage (acc. to VDE standard 0110 ISO Group C)	30 V
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	30 V
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Dimensioned drawing

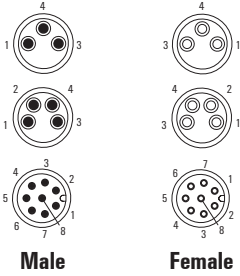


Dimensioned drawing



Built-in plugs

**M8
SMT
two-piece
shielded**



Male

Female

Ordering data

Male, straight	
	3-pole
	4-pole
Female, straight	
	4-pole
	8-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Front mounting

Board-to-board distance: 9 mm



Front mounting

Board-to-board distance: 13 mm



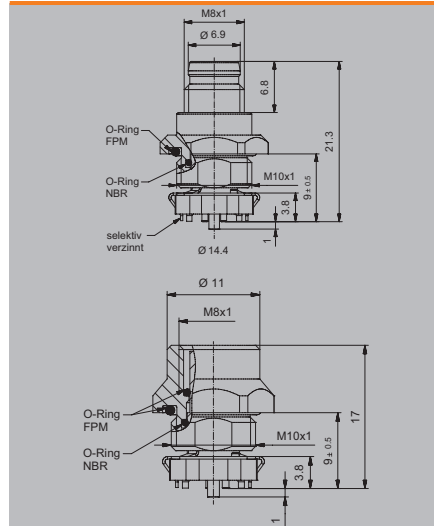
Type	QTY	Order No.
SAIE-M8S-3S-F9SMT	25	2422320000
SAIE-M8S-4S-F9SMT	25	2422560000
SAIE-M8B-4S-F9SMT	25	2422410000
SAIE-M8B-8S-F9SMT	25	2422710000

Type	QTY	Order No.
SAIE-M8S-3S-F13SMT	25	2422350000
SAIE-M8S-4S-F13SMT	25	2422590000
SAIE-M8B-4S-F13SMT	25	2422440000
SAIE-M8B-8S-F13SMT	25	2422740000

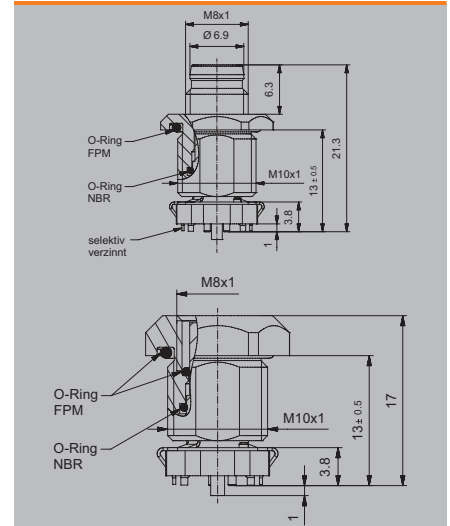
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-,5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	M10
Mounting torque range	0.8 Nm
Note	

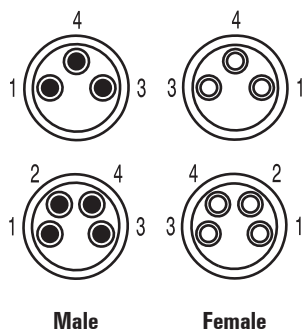
Dimensioned drawing



Dimensioned drawing



M8
SMT
DOM



Unshielded



Shielded



Ordering data

Male, straight	
3-pole	SAID-M8S-3-SMT
4-pole	SAID-M8S-4-SMT
5-pole	SAID-M8S-5-SMT
8-pole	SAID-M8S-8-SMT
Female, straight	
3-pole	SAID-M8B-3-SMT
4-pole	SAID-M8B-4-SMT
5-pole	SAID-M8B-5-SMT
8-pole	SAID-M8B-8-SMT
Note	

Type	QTY	Order No.
SAID-M8S-3-SMT	25	2421750000
SAID-M8S-4-SMT	25	2421870000
SAID-M8S-5-SMT	25	2421990000
SAID-M8S-8-SMT	25	2422110000
SAID-M8B-3-SMT	25	2421720000
SAID-M8B-4-SMT	25	2421840000
SAID-M8B-5-SMT	25	2421960000
SAID-M8B-8-SMT	25	2422080000

Type	QTY	Order No.
SAID-M8S-3S-SMT	25	2421810000
SAID-M8S-4S-SMT	25	2421930000
SAID-M8S-5S-SMT	25	2422050000
SAID-M8S-8S-SMT	25	2422170000
SAID-M8B-3S-SMT	25	2421780000
SAID-M8B-4S-SMT	25	2421900000
SAID-M8B-5S-SMT	25	2422020000
SAID-M8B-8S-SMT	25	2422140000

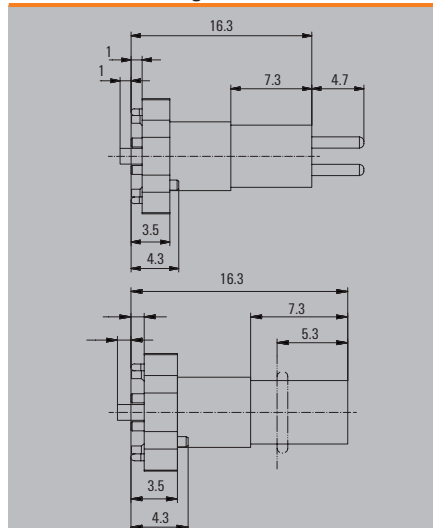
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-, 5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	
Mounting torque range	
Note	

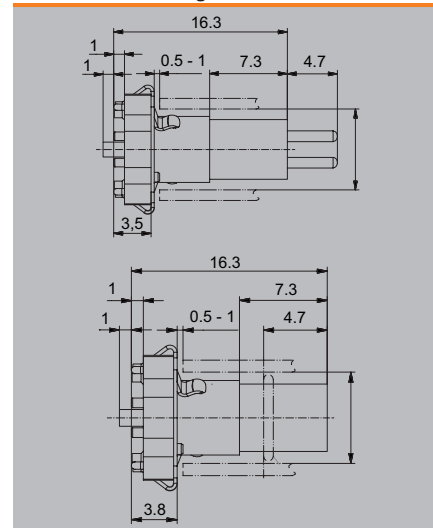
Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-, 5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	
Mounting torque range	
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	60 V (3-pole) / 30 V (4-, 5- and 8-pole)
Rated current	4 A (3-, 4- and 5-pole) / 1.5 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M8
Tightening torque	M8: 0.5 Nm
Mounting thread	
Mounting torque range	
Note	

Dimensioned drawing



Dimensioned drawing

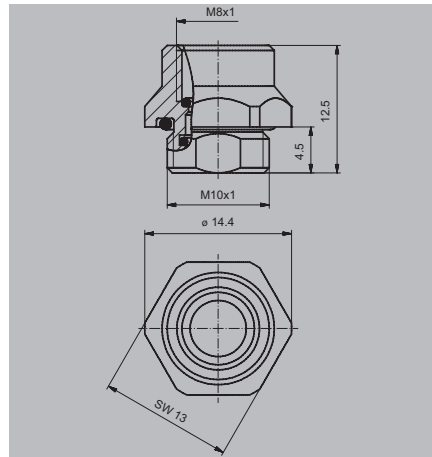


Built-in plugs

M8
Flange-mounted housing
Hexagon nut

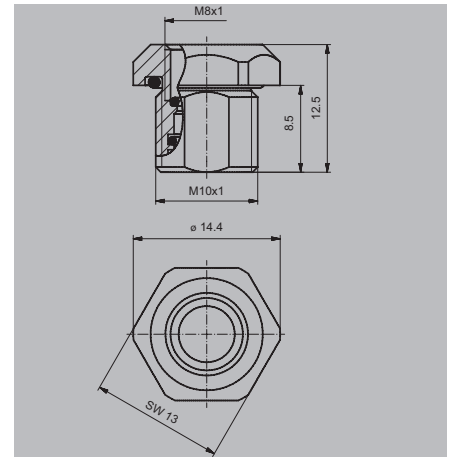
Coupling

M10 height: 9 mm



Coupling

M10 height: 13 mm



Technical data

Housing main material
 Housing surface
 Seal material

CuZn
 nickel-plated
 FPM, NBR

CuZn
 nickel-plated
 FPM, NBR

Note

Ordering data

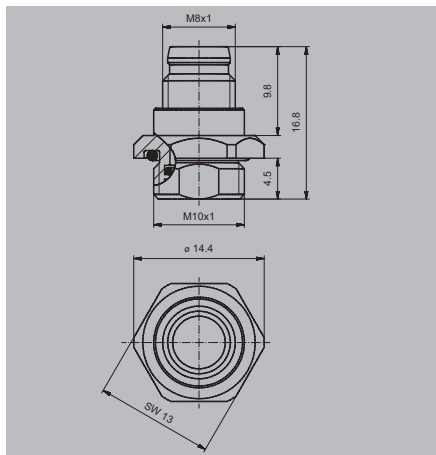
Type	QTY	Order No.
SAIFG-M8B-M10-9	25	2424430000

Type	QTY	Order No.
SAIFG-M8B-M10-13	25	2424460000

Note

Plug connector

M10 height: 9 mm

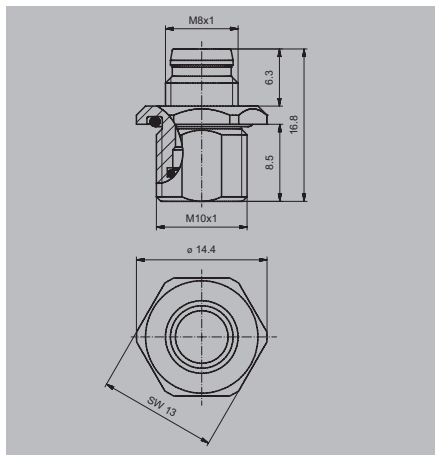


CuZn
nickel-plated
FPM, NBR

Type	QTY	Order No.
SAIFG-M8S-M10-9	25	2424520000

Plug connector

M10 height: 13 mm

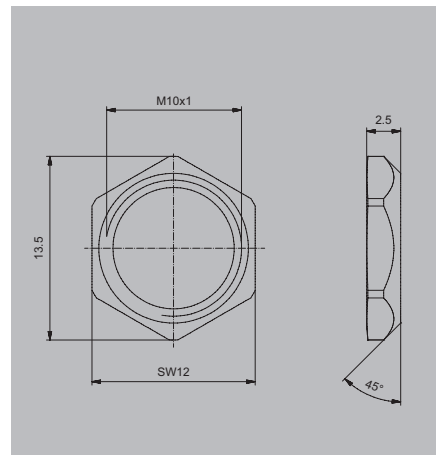


CuZn
nickel-plated
FPM, NBR

Type	QTY	Order No.
SAIFG-M8S-M10-13	25	2424530000

Hexagon nut

M10 distance across flat: 12



CuZn
nickel-plated

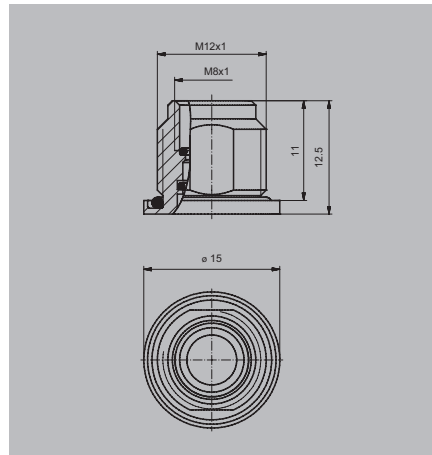
Type	QTY	Order No.
SAIE-KMM10X1-SW12	25	2424560000

Built-in plugs

M8
Flange-mounted housing
Hexagon nut

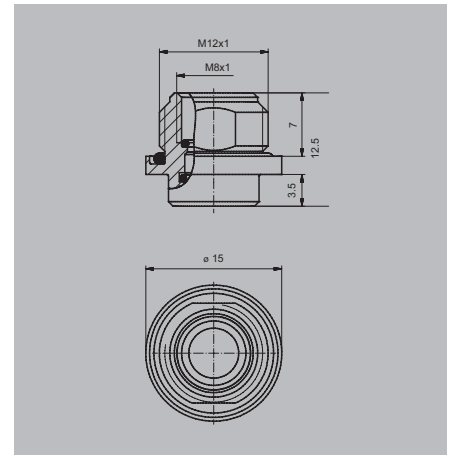
Coupling

M12 height: 6 mm



Coupling

M12 height: 10 mm



Technical data

Housing main material	CuZn	CuZn
Housing surface	nickel-plated	nickel-plated
Seal material	FPM, NBR	FPM, NBR

Note		
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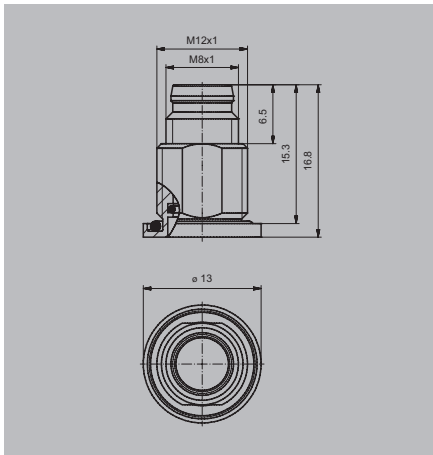
Ordering data

Type	QTY	Order No.	Type	QTY	Order No.
SAIHG-M8B-M12-6	25	2424480000	SAIHG-M8B-M12-10	25	2424500000

Note		
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Plug connector

M12 height: 6 mm

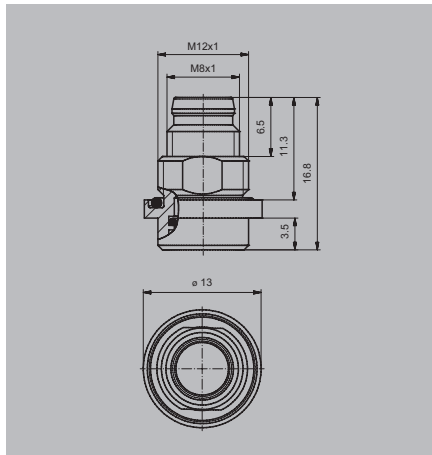


CuZn
nickel-plated
FPM, NBR

Type	QTY	Order No.
SAIHG-M8S-M12-6	25	2424540000

Plug connector

M12 height: 10 mm

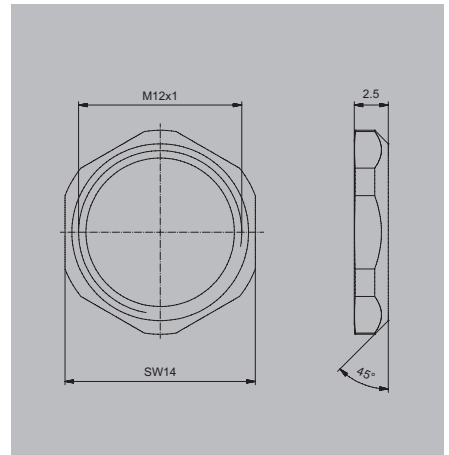


CuZn
nickel-plated
FPM, NBR

Type	QTY	Order No.
SAIHG-M8S-M12-10	25	2424550000

Hexagon nut

M12 distance across flat: 14

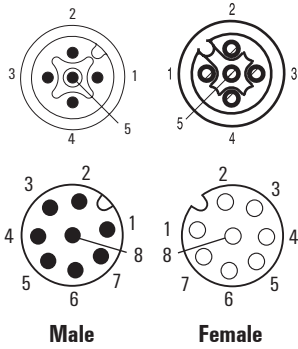


CuZn
nickel-plated

Type	QTY	Order No.
SAIE-KMM12X1-SW14	25	2424570000

Built-in plugs

**M12
Dip solder
one-piece
A-coded**



Back panel mounting, M16

Board-to-board distance: 5.5 mm



Back panel mounting, M16

Board-to-board distance: 12 mm



Ordering data

Male, straight	
4-pole	SAIE-M12S-4-H5.5TL-M16
5-pole	SAIE-M12S-5-H5.5TL-M16
8-pole	SAIE-M12S-8-H5.5TL-M16
Female, straight	
4-pole	SAIE-M12B-4-H5.5TL-M16
5-pole	SAIE-M12B-5-H5.5TL-M16
8-pole	SAIE-M12B-8-H5.5TL-M16
Note	

Type	QTY	Order No.
SAIE-M12S-4-H5.5TL-M16	10	2421740000
SAIE-M12S-5-H5.5TL-M16	10	2421770000
SAIE-M12S-8-H5.5TL-M16	10	2421800000
SAIE-M12B-4-H5.5TL-M16	10	2421600000
SAIE-M12B-5-H5.5TL-M16	10	2421620000
SAIE-M12B-8-H5.5TL-M16	10	2421640000

Type	QTY	Order No.
SAIE-M12S-4-H12TL-M16	10	2421830000
SAIE-M12S-5-H12TL-M16	10	2421860000
SAIE-M12S-8-H12TL-M16	10	2421890000
SAIE-M12B-4-H12TL-M16	10	2421660000
SAIE-M12B-5-H12TL-M16	10	2421680000
SAIE-M12B-8-H12TL-M16	10	2421710000

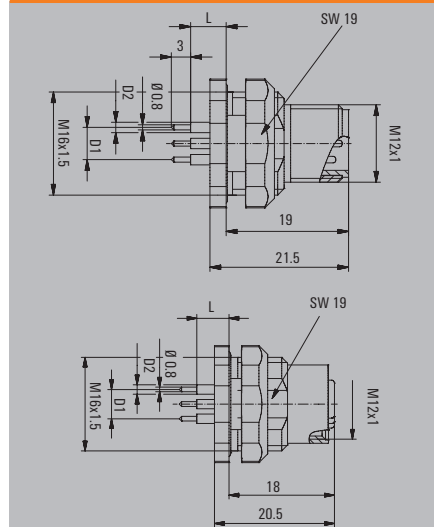
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

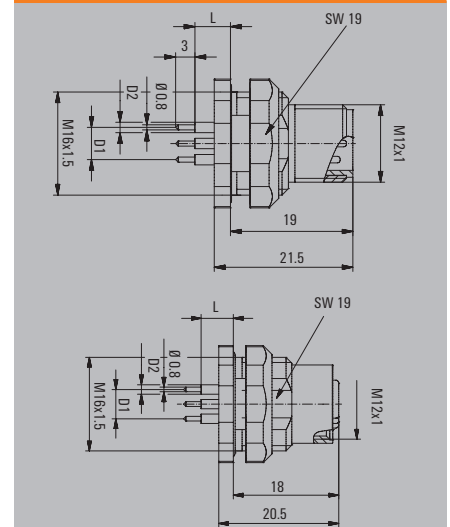
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

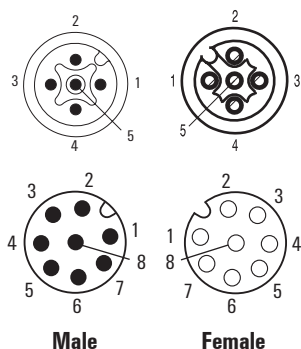
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
one-piece
A-coded



Ordering data

Male, straight	
4-pole	SAIE-M12S-4-H5.5TL-PG9
5-pole	SAIE-M12S-5-H5.5TL-PG9
8-pole	SAIE-M12S-8-H5.5TL-PG9
Female, straight	
4-pole	SAIE-M12B-4-H5.5TL-PG9
5-pole	SAIE-M12B-5-H5.5TL-PG9
8-pole	SAIE-M12B-8-H5.5TL-PG9
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	PG9
Mounting torque range	1.2 Nm
Note	

Back panel mounting, PG9

Board-to-board distance: 5.5 mm



Back panel mounting, PG9

Board-to-board distance: 12 mm



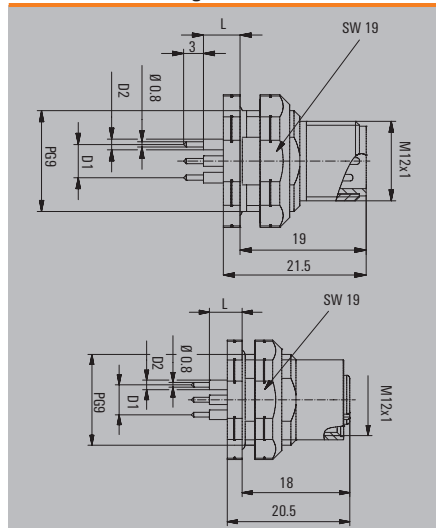
Type	QTY	Order No.
SAIE-M12S-4-H5.5TL-PG9	10	2422100000
SAIE-M12S-5-H5.5TL-PG9	10	2422160000
SAIE-M12S-8-H5.5TL-PG9	10	2422220000
SAIE-M12B-4-H5.5TL-PG9	10	2421920000
SAIE-M12B-5-H5.5TL-PG9	10	2421980000
SAIE-M12B-8-H5.5TL-PG9	10	2422040000
Note		

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	PG9
Mounting torque range	1.2 Nm
Note	

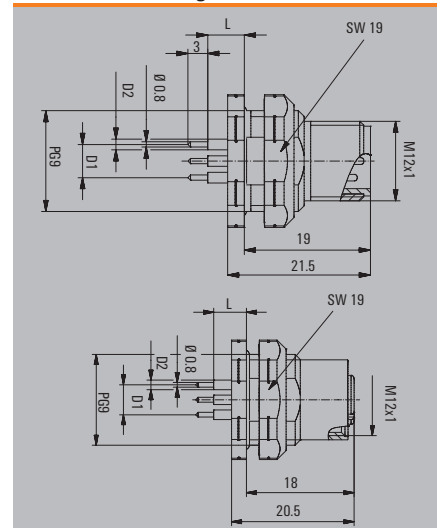
Type	QTY	Order No.
SAIE-M12S-4-H12TL-PG9	10	2422130000
SAIE-M12S-5-H12TL-PG9	10	2422190000
SAIE-M12S-8-H12TL-PG9	10	2422250000
SAIE-M12B-4-H12TL-PG9	10	2421950000
SAIE-M12B-5-H12TL-PG9	10	2422010000
SAIE-M12B-8-H12TL-PG9	10	2422070000
Note		

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	PG9
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

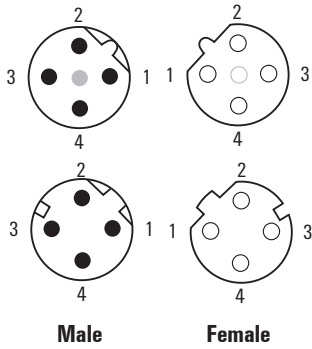


Dimensioned drawing



Built-in plugs

**M12
Dip solder
one-piece**



Back panel mounting, M16

Board-to-board distance: 5.5 mm



Back panel mounting, M16

Board-to-board distance: 12 mm



Ordering data

Male, straight	B-coded, 4-pole
Female, straight	B-coded, 4-pole D-coded, 4-pole
Note	

Type	QTY	Order No.
SAIE-M12S-4B-H5.5TL-M16	10	2422370000
SAIE-M12B-4B-H5.5TL-M16	10	2422310000
SAIE-M12B-4D-H5.5TL-M16	10	2422430000

Type	QTY	Order No.
SAIE-M12S-4B-H12TL-M16	10	2422400000
SAIE-M12B-4B-H12TL-M16	10	2422340000
SAIE-M12B-4D-H12TL-M16	10	2422280000

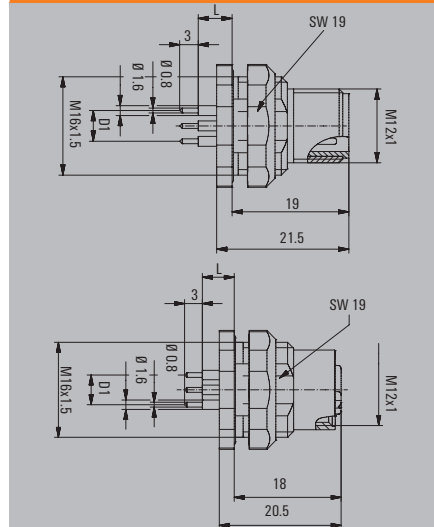
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

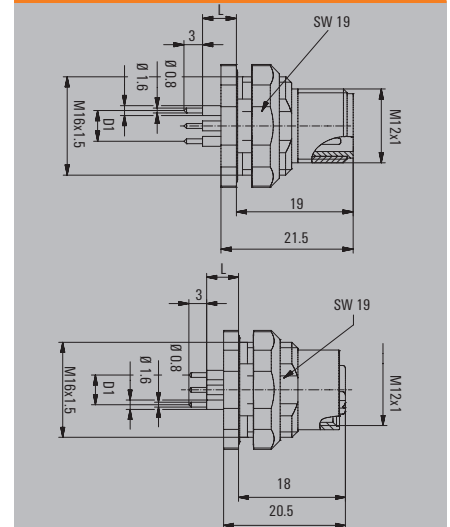
250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

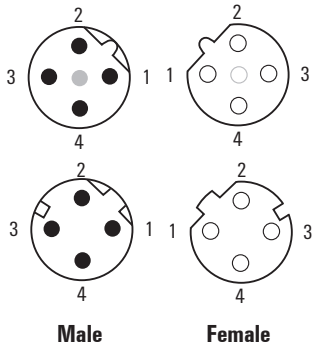
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
one-piece



Ordering data

Male, straight	B-coded, 4-pole
Female, straight	B-coded, 4-pole D-coded, 4-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	PG9
Mounting torque range	1.2 Nm
Note	

Back panel mounting, PG9

Board-to-board distance: 5.5 mm



Back panel mounting, PG9

Board-to-board distance: 12 mm



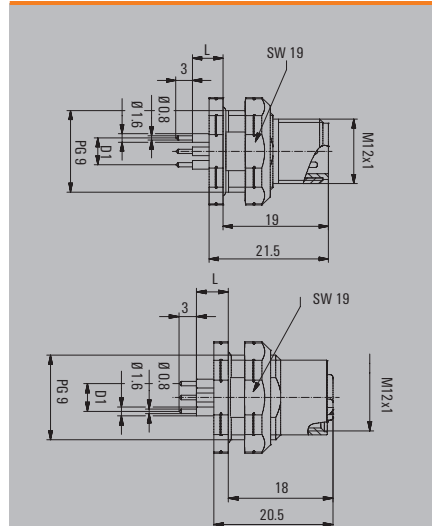
Type	QTY	Order No.
SAIE-M12SB-4-H5.5TL-PG9	10	2421700000
SAIE-M12BB-4-H5.5TL-PG9	10	2424490000
SAIE-M12BD-4-H5.5TL-PG9	10	2424440000

Type	QTY	Order No.
SAIE-M12SB-4-H12TL-PG9	10	2421730000
SAIE-M12BB-4-H12TL-PG9	10	2424510000
SAIE-M12BD-4-H12TL-PG9	10	2424470000

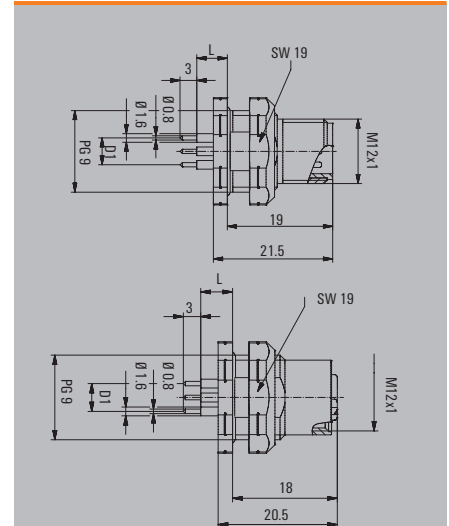
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	PG9
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	PG9
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

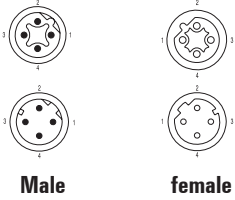


Dimensioned drawing



Built-in plugs

**M12
Dip solder
one-piece
shielded**



Rear panel mounting, M16

Board-to-board distance: 6.75 mm



Ordering data

Male, straight	
A-coded, 4-pole	SAIE-M12S-4AS-H6.75TL
A-coded, 5-pole	SAIE-M12S-5AS-H6.75TL
B-coded, 4-pole	SAIE-M12S-4BS-H6.75TL
D-coded, 4-pole	SAIE-M12S-4DS-H6.75TL
Female, straight	
A-coded, 4-pole	SAIE-M12B-4S-H6.75TL
A-coded, 5-pole	SAIE-M12B-5S-H6.75TL
A-coded, 8-pole	SAIE-M12B-8S-H6.75TL
B-coded, 4-pole	SAIE-M12BB-4S-H6.75TL
D-coded, 4-pole	SAIE-M12BD-4S-H6.75TL
Note	

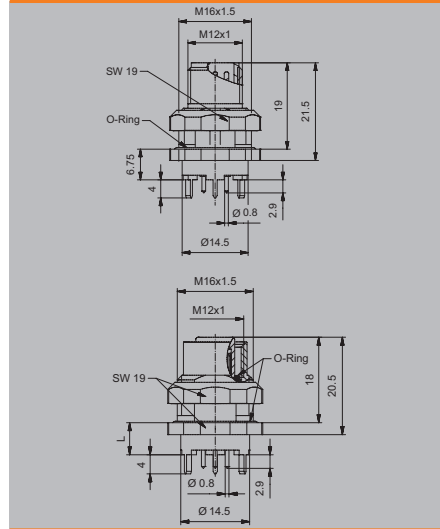
Type	QTY	Order No.
SAIE-M12S-4AS-H6.75TL	10	2424040000
SAIE-M12S-5AS-H6.75TL	10	2424070000
SAIE-M12S-4BS-H6.75TL	10	2424120000
SAIE-M12S-4DS-H6.75TL	10	2424100000
SAIE-M12B-4S-H6.75TL	10	2421880000
SAIE-M12B-5S-H6.75TL	10	2421910000
SAIE-M12B-8S-H6.75TL	10	2421940000
SAIE-M12BB-4S-H6.75TL	10	2421970000
SAIE-M12BD-4S-H6.75TL	10	2422000000
Note		

Technical data

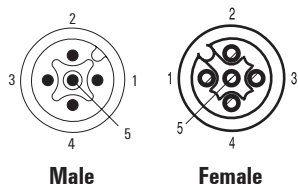
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M16
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing



M12
Dip solder
two-piece
A-coded



Rear panel mounting

Board-to-board distance: 5.5 mm



Front mounting

Board-to-board distance: 5.5 mm



Ordering data

Male, straight	
	4-pole
	5-pole
Female, straight	
	4-pole
	5-pole
Note	

Type	QTY	Order No.
SAIE-M12S-4-H5.5TL	10	2423300000
SAIE-M12S-5-H5.5TL	10	2423360000
SAIE-M12B-4-H5.5TL	10	2423180000
SAIE-M12B-5-H5.5TL	10	2423240000
Note		

Type	QTY	Order No.
SAIE-M12S-4-F5.5TL	10	2423060000
SAIE-M12S-5-F5.5TL	10	2423120000
SAIE-M12B-4-F5.5TL	10	2422940000
SAIE-M12B-5-F5.5TL	10	2423000000
Note		

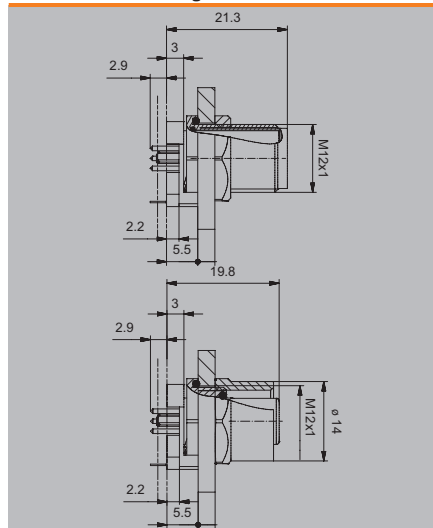
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

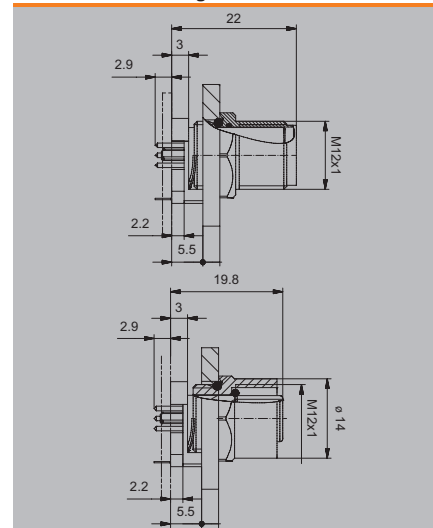
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

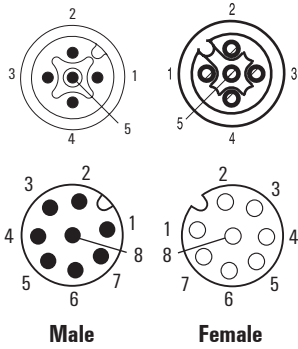


Dimensioned drawing



Built-in plugs

M12
Dip solder
two-piece
A-coded



Rear panel mounting

Board-to-board distance: 10 mm



Front mounting

Board-to-board distance: 10 mm



Ordering data

Male, straight	
4-pole	SAIE-M12S-4-H10TL
5-pole	SAIE-M12S-5-H10TL
Female, straight	
4-pole	SAIE-M12B-4-H10TL
5-pole	SAIE-M12B-5-H10TL
8-pole	SAIE-M12B-8-H10TL
Note	

Type	QTY	Order No.
SAIE-M12S-4-H10TL	10	2422820000
SAIE-M12S-5-H10TL	10	2422880000
SAIE-M12B-4-H10TL	10	2422700000
SAIE-M12B-5-H10TL	10	2422760000
SAIE-M12B-8-H10TL	10	2421820000
Note		

Type	QTY	Order No.
SAIE-M12S-4-F10TL	10	2422580000
SAIE-M12S-5-F10TL	10	2422640000
SAIE-M12B-4-F10TL	10	2422460000
SAIE-M12B-5-F10TL	10	2422520000
SAIE-M12B-8-F10TL	10	2421760000
Note		

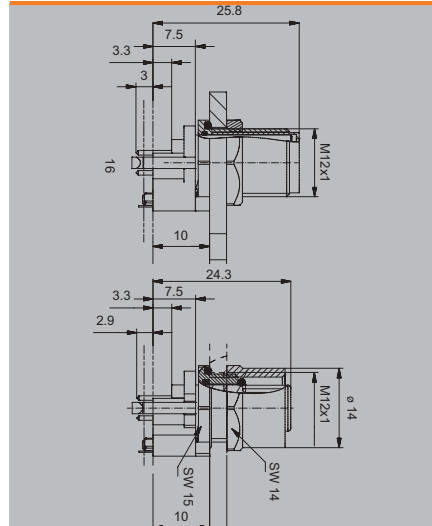
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

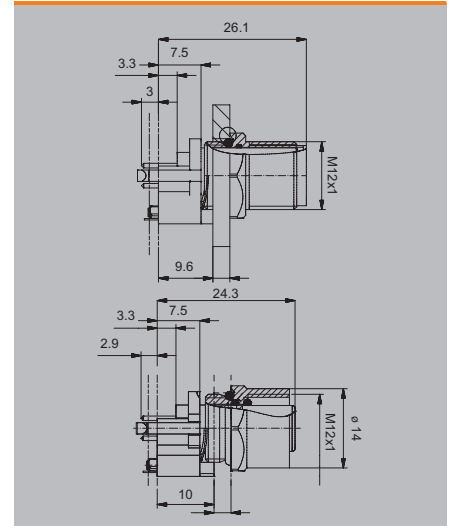
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

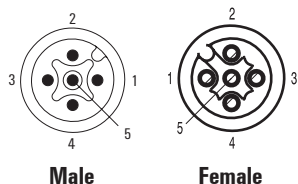
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
A-coded



Rear panel mounting



Front mounting



Ordering data

Male, angled	
	4-pole
	5-pole
Female, angled	
	4-pole
	5-pole
Note	

Type	QTY	Order No.
SAIEW-M12S-4-HTL	10	2423660000
SAIEW-M12S-5-HTL	10	2423720000
SAIEW-M12B-4-HTL	10	2423420000
SAIEW-M12B-5-HTL	10	2423480000

Type	QTY	Order No.
SAIEW-M12S-4-FTL	10	2423780000
SAIEW-M12S-5-FTL	10	2423840000
SAIEW-M12B-4-FTL	10	2423540000
SAIEW-M12B-5-FTL	10	2423600000

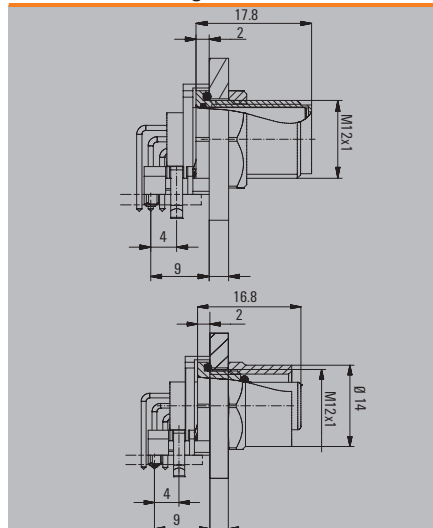
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

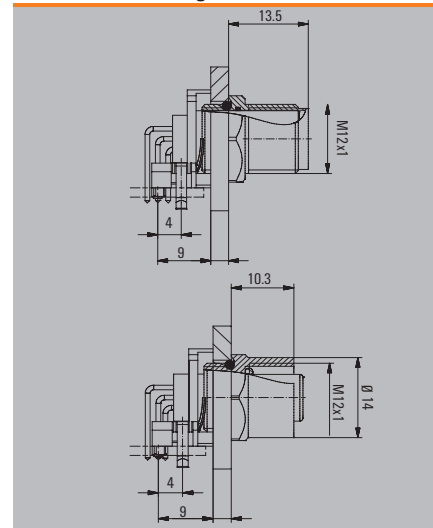
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

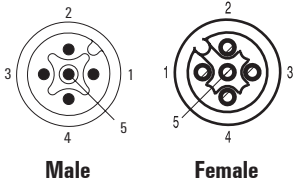


Dimensioned drawing



Built-in plugs

M12
Dip solder
two-piece
shielded
A-coded



Rear panel mounting

Front mounting



Ordering data

Male, angled	
	4-pole
	5-pole
Female, angled	
	4-pole
	5-pole
Note	

Type	QTY	Order No.
SAIEW-M12S-4S-HTL	10	2423690000
SAIEW-M12S-5S-HTL	10	2423750000
SAIEW-M12B-4S-HTL	10	2423450000
SAIEW-M12B-5S-HTL	10	2423510000

Type	QTY	Order No.
SAIEW-M12S-4S-FTL	10	2423810000
SAIEW-M12S-5S-FTL	10	2423870000
SAIEW-M12B-4S-FTL	10	2423570000
SAIEW-M12B-5S-FTL	10	2423630000

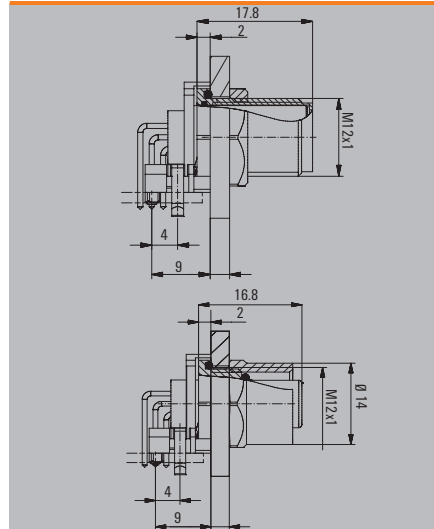
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

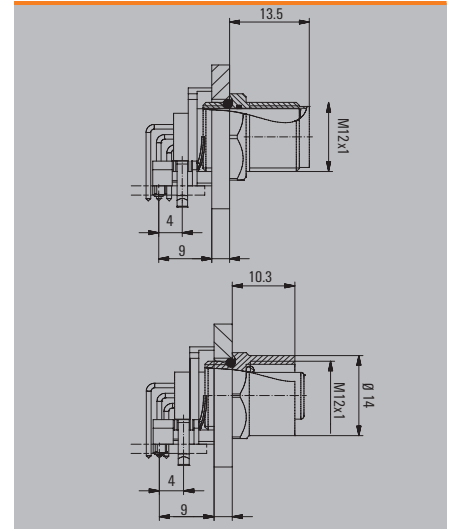
250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

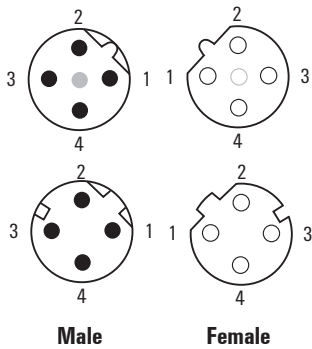
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded



Rear panel mounting



Front mounting



Ordering data

Male, angled	B-coded, 4-pole
Female, angled	B-coded, 4-pole D-coded, 4-pole
Note	

Type	QTY	Order No.
SAIEW-M12SB-4-HTL	10	2424350000
SAIEW-M12BB-4-HTL	10	2424290000
SAIEW-M12BD-4-HTL	10	2424410000

Type	QTY	Order No.
SAIEW-M12SB-4-FTL	10	2424320000
SAIEW-M12BB-4-FTL	10	2424260000
SAIEW-M12BD-4-FTL	10	2424380000

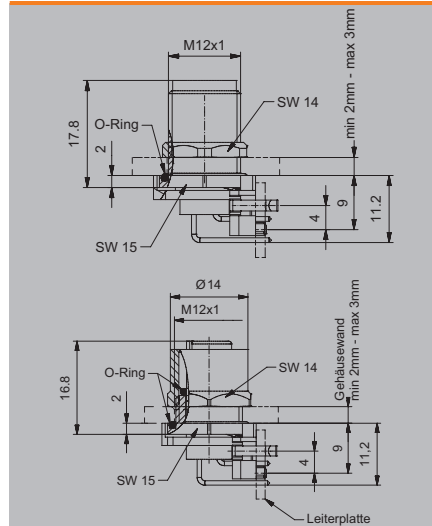
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

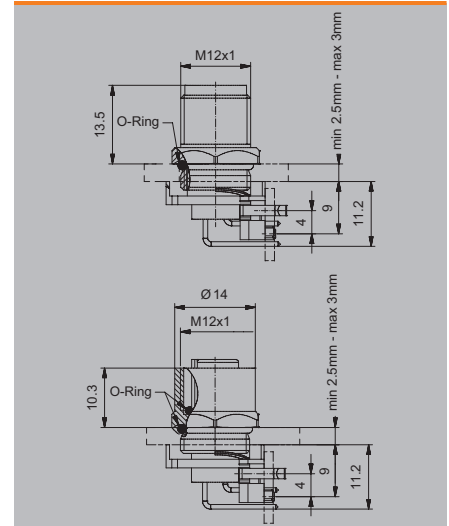
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

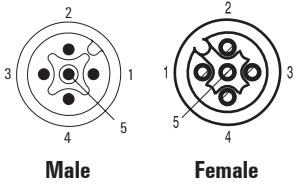


Dimensioned drawing



Built-in plugs

M12
Dip solder
two-piece
shielded
A-coded



Rear panel mounting

Board-to-board distance: 5.5 mm



Front mounting

Board-to-board distance: 5.5 mm



Ordering data

Male, straight	
	4-pole
	5-pole
Female, straight	
	4-pole
	5-pole
Note	

Type	QTY	Order No.
SAIE-M12S-4S-H5.5TL	10	2423330000
SAIE-M12S-5S-H5.5TL	10	2423390000
SAIE-M12B-4S-H5.5TL	10	2423210000
SAIE-M12B-5S-H5.5TL	10	2423270000
Note		

Type	QTY	Order No.
SAIE-M12S-4S-F5.5TL	10	2423090000
SAIE-M12S-5S-F5.5TL	10	2423150000
SAIE-M12B-4S-F5.5TL	10	2422970000
SAIE-M12B-5S-F5.5TL	10	2423030000
Note		

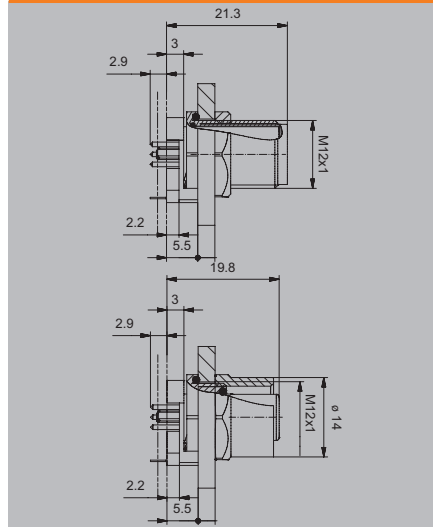
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

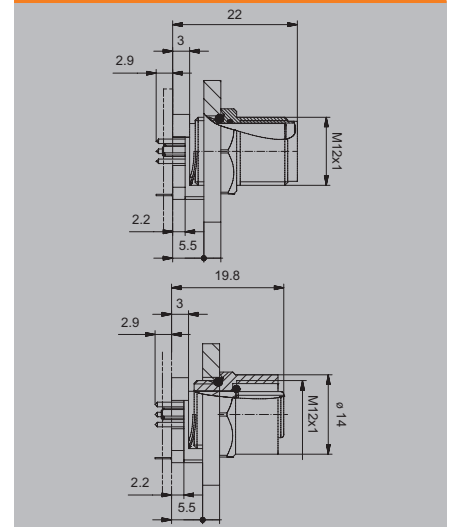
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

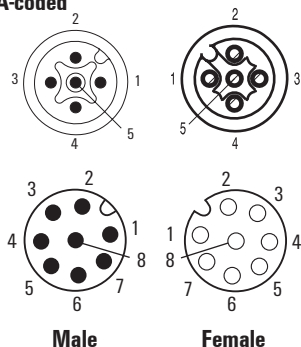
Dimensioned drawing



Dimensioned drawing



M12
Dip solder
two-piece
shielded
A-coded



Ordering data

Male, straight	
	4-pole
	5-pole
Female, straight	
	4-pole
	5-pole
	8-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Rear panel mounting

Board-to-board distance: 10 mm



Front mounting

Board-to-board distance: 10 mm



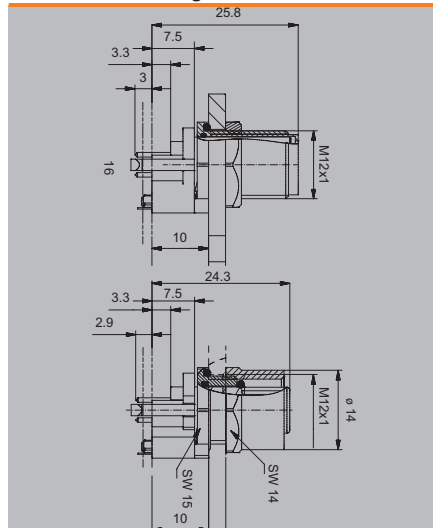
Type	QTY	Order No.
SAIE-M12S-4S-H10TL	10	2422850000
SAIE-M12S-5S-H10TL	10	2422910000
SAIE-M12B-4S-H10TL	10	2422730000
SAIE-M12B-5S-H10TL	10	2422790000
SAIE-M12B-8S-H10TL	10	2421850000

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

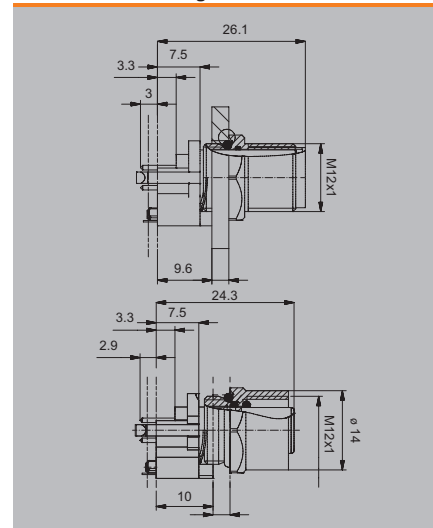
Type	QTY	Order No.
SAIE-M12S-4S-F10TL	10	2422610000
SAIE-M12S-5S-F10TL	10	2422670000
SAIE-M12B-4S-F10TL	10	2422490000
SAIE-M12B-5S-F10TL	10	2422550000
SAIE-M12B-8S-F10TL	10	2421790000

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M12
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

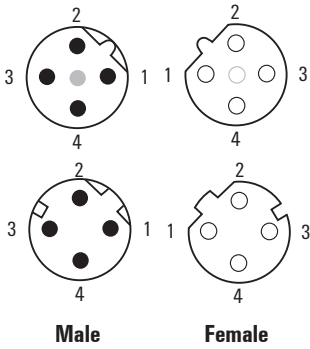


Dimensioned drawing



Built-in plugs

**M12
Dip solder
two-piece
shielded**



Ordering data

Male, straight	B-coded, 4-pole
Female, straight	B-coded, 4-pole D-coded, 4-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting

Board-to-board distance: 5.5 mm



Rear panel mounting

Board-to-board distance: 10 mm



Similar to illustration

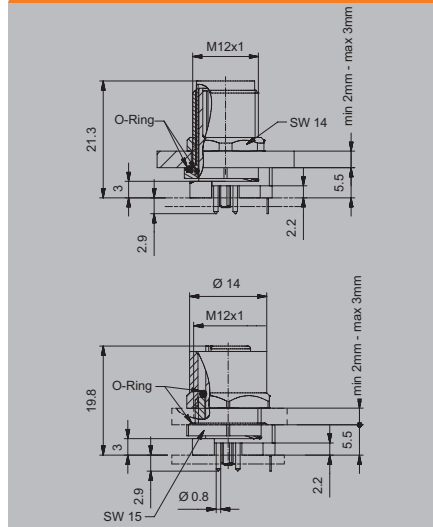
Type	QTY	Order No.
SAIE-M12SB-4-H5.5TL	10	2424110000
SAIE-M12BB-4-H5.5TL	10	2424050000
SAIE-M12BD-4-H5.5TL	10	2424230000

Type	QTY	Order No.
SAIE-M12SB-4-H10TL	10	2423990000
SAIE-M12BB-4-H10TL	10	2423930000
SAIE-M12BD-4-H10TL	10	2424170000

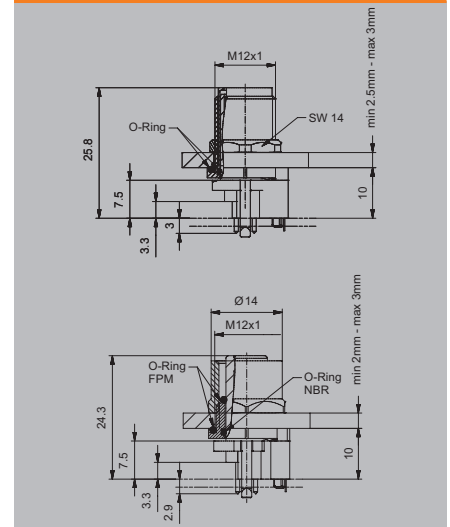
250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Dimensioned drawing

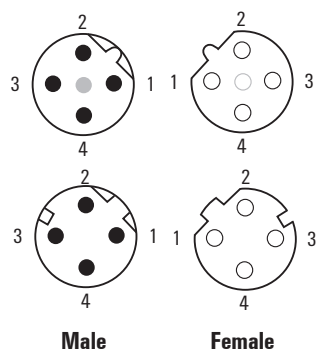


Dimensioned drawing



M12

Dip solder
two-piece
shielded



Ordering data

Male, straight	B-coded, 4-pole
Female, straight	B-coded, 4-pole D-coded, 4-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range

Note

Front mounting

Board-to-board distance: 5.5 mm



Front mounting

Board-to-board distance: 10 mm



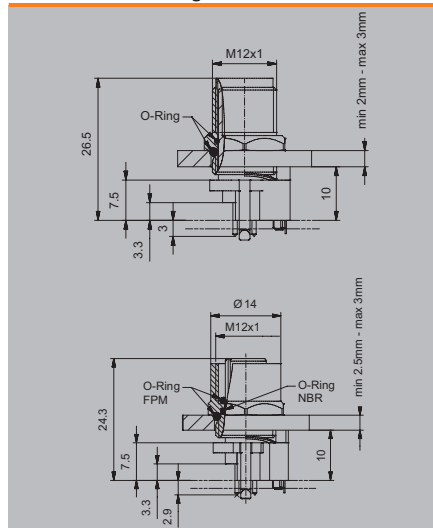
Type	QTY	Order No.
SAIE-M12SB-4-F5.5TL	10	2424080000
SAIE-M12BB-4-F5.5TL	10	2424020000
SAIE-M12BD-4-F5.5TL	10	2424200000

Type	QTY	Order No.
SAIE-M12SB-4-F10TL	10	2423960000
SAIE-M12BB-4-F10TL	10	2423900000
SAIE-M12BD-4-F10TL	10	2424140000

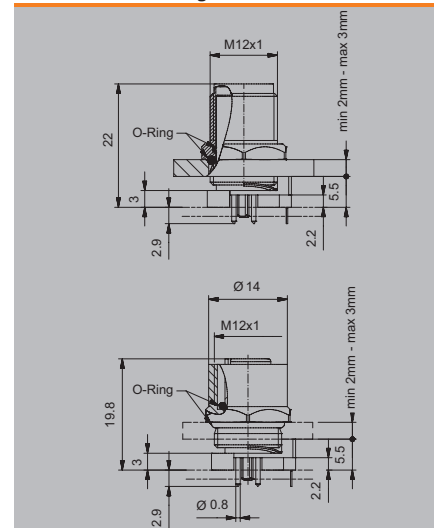
250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

250 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M12
1.2 Nm

Dimensioned drawing

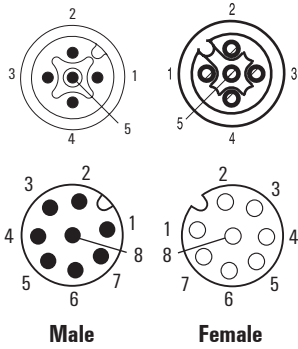


Dimensioned drawing



Built-in plugs

**M12
SMT
two-piece
A-coded**



Mounting thread, M14

Board-to-board distance: 9 mm



Mounting thread, M14

Board-to-board distance: 13 mm



Ordering data

Male, straight	
4-pole	SAIE-M12S-4-9/14SMT
5-pole	SAIE-M12S-5-9/14SMT
8-pole	SAIE-M12S-8-9/14SMT
Female, straight	
4-pole	SAIE-M12B-4-9SMT
5-pole	SAIE-M12B-5-9SMT
8-pole	SAIE-M12B-8-9/14SMT
Note	

Type	QTY	Order No.
SAIE-M12S-4-9/14SMT	25	2423200000
SAIE-M12S-5-9/14SMT	25	2423230000
SAIE-M12S-8-9/14SMT	25	2423260000
SAIE-M12B-4-9SMT	25	2422300000
SAIE-M12B-5-9SMT	25	2422330000
SAIE-M12B-8-9/14SMT	25	2423440000

Type	QTY	Order No.
SAIE-M12B-4-13/14SMT	25	2423020000
SAIE-M12B-5-13/14SMT	25	2423050000
SAIE-M12B-8-13/14SMT	25	2423080000

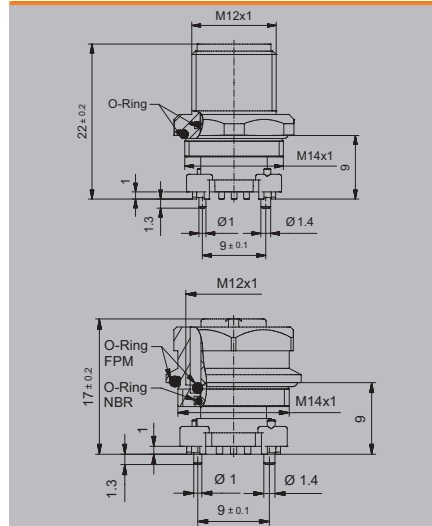
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

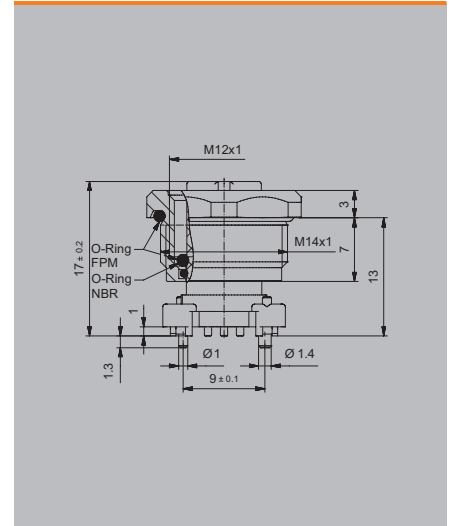
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

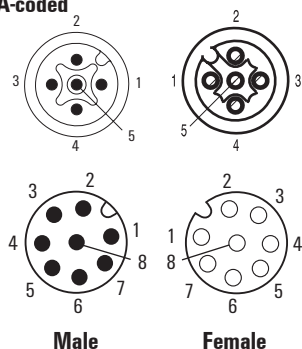
Dimensioned drawing



Dimensioned drawing



**M12
SMT
two-piece
shielded
A-coded**



Ordering data

Male, straight	
4-pole	SAIE-M12S-4S-9/14SMT
5-pole	SAIE-M12S-5S-9/14SMT
8-pole	SAIE-M12S-8S-9/14SMT
Female, straight	
4-pole	SAIE-M12B-4S-9SMT
5-pole	SAIE-M12B-5S-9SMT
8-pole	SAIE-M12B-8S-9/14SMT
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

Mounting thread, M14

Board-to-board distance: 9 mm



Mounting thread, M14

Board-to-board distance: 13 mm



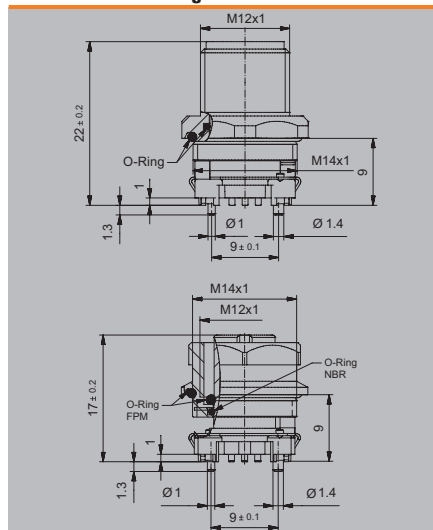
Type	QTY	Order No.
SAIE-M12S-4S-9/14SMT	25	2423290000
SAIE-M12S-5S-9/14SMT	25	2423320000
SAIE-M12S-8S-9/14SMT	25	2423350000
SAIE-M12B-4S-9SMT	25	2422360000
SAIE-M12B-5S-9SMT	25	2422390000
SAIE-M12B-8S-9/14SMT	25	2423470000
Note		

Type	QTY	Order No.
SAIE-M12B-4S-13/14SMT	25	2423110000
SAIE-M12B-5S-13/14SMT	25	2423140000
SAIE-M12B-8S-13/14SMT	25	2423170000
Note		

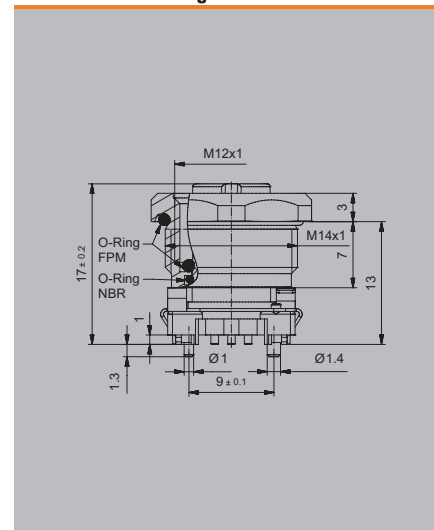
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

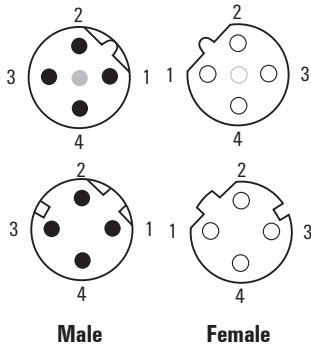


Dimensioned drawing



Built-in plugs

**M12
SMT
two-piece
shielded**



Male

Female

Ordering data

Male, straight	
	B-coded, 4-pole
	B-coded, 5-pole
Female, straight	
	B-coded, 4-pole
	B-coded, 5-pole
	D-coded, 8-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Mounting thread, M14

Board-to-board distance: 9 mm



Mounting thread, M14

Board-to-board distance: 13 mm



Similar to illustration

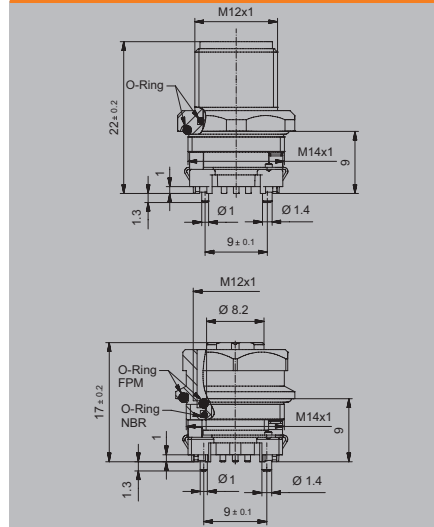
Type	QTY	Order No.
SAIE-M12SB-4S-9SMT	25	2423800000
SAIE-M12SB-5S-9SMT	25	2423830000
SAIE-M12BB-4S-9/14SMT	25	2423680000
SAIE-M12BB-5S-9/14SMT	25	2423710000
SAIE-M12BD-4S-9/14SMT	25	2423860000

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

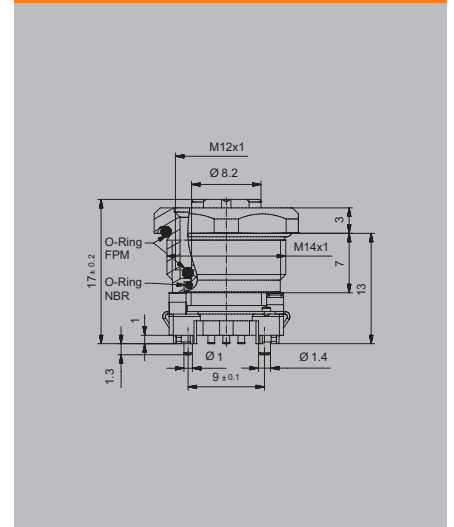
Type	QTY	Order No.
SAIE-M12BB-4S-13/14SMT	25	2423740000
SAIE-M12BB-5S-13/14SMT	25	2423770000
SAIE-M12BD-4S-13/14SMT	25	2423890000

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-30...80 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	CuZn, nickel-plated
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	M14
Mounting torque range	1.2 Nm
Note	

Dimensioned drawing

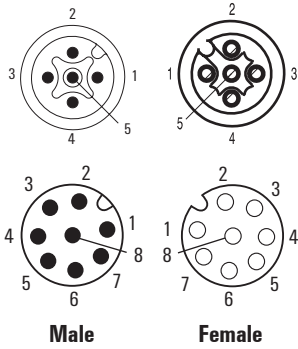


Dimensioned drawing





M12
SMT
DOM



Ordering data

Male, straight	
4-pole	SAID-M12S-4-9SMT
5-pole	SAID-M12S-5-9SMT
8-pole	SAID-M12S-8-9SMT
Female, straight	
4-pole	SAID-M12B-4-9SMT
5-pole	SAID-M12B-5-9SMT
8-pole	SAID-M12B-8-9SMT
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Unshielded



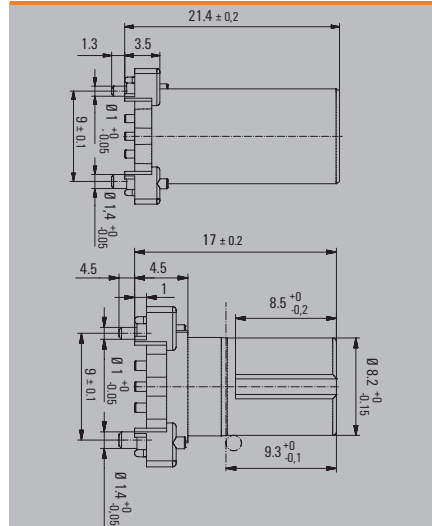
Shielded



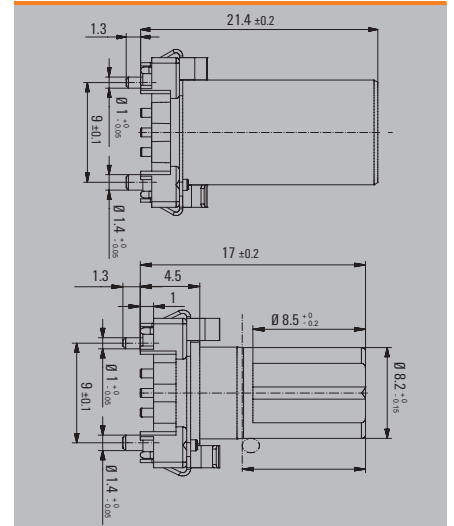
Type	QTY	Order No.
SAID-M12S-4-9SMT	25	2422540000
SAID-M12S-5-9SMT	25	2422600000
SAID-M12S-8-9SMT	25	2422420000
SAID-M12B-4-9SMT	25	2422060000
SAID-M12B-5-9SMT	25	2422120000
SAID-M12B-8-9SMT	25	2422480000
Note		

Type	QTY	Order No.
SAID-M12S-4S-9SMT	25	2423500000
SAID-M12S-5S-9SMT	25	2423560000
SAID-M12S-8S-9SMT	25	2423620000
SAID-M12B-4S-9SMT	25	2422180000
SAID-M12B-5S-9SMT	25	2422240000
SAID-M12B-8S-9SMT	25	2423380000
Note		

Dimensioned drawing



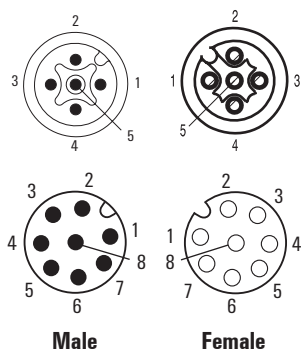
Dimensioned drawing



Built-in plugs



**M12
SMT
DOM
A-coded**



Unshielded

Tape-on-Reel



Shielded

Tape-on-Reel



Ordering data

Male, straight	
4-pole	SAID-M12S-4-9SMT-TR
5-pole	SAID-M12S-5-9SMT-TR
8-pole	SAID-M12S-8-9SMT-TR
Female, straight	
4-pole	SAID-M12B-4-9SMT-TR
5-pole	SAID-M12B-5-9SMT-TR
8-pole	SAID-M12B-8-9SMT-TR
Note	

Type	QTY	Order No.
SAID-M12S-4-9SMT-TR	75	2422570000
SAID-M12S-5-9SMT-TR	75	2422630000
SAID-M12S-8-9SMT-TR	75	2422450000
SAID-M12B-4-9SMT-TR	75	2422090000
SAID-M12B-5-9SMT-TR	75	2422150000
SAID-M12B-8-9SMT-TR	75	2422510000

Type	QTY	Order No.
SAID-M12S-4S-9SMT-TR	75	2423530000
SAID-M12S-5S-9SMT-TR	75	2423590000
SAID-M12S-8S-9SMT-TR	75	2423650000
SAID-M12B-4S-9SMT-TR	75	2422210000
SAID-M12B-5S-9SMT-TR	75	2422270000
SAID-M12B-8S-9SMT-TR	75	2423410000

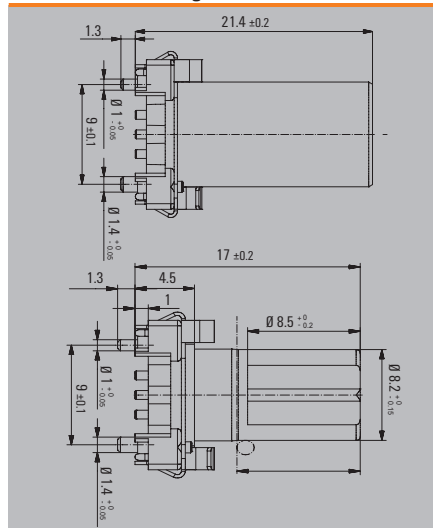
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

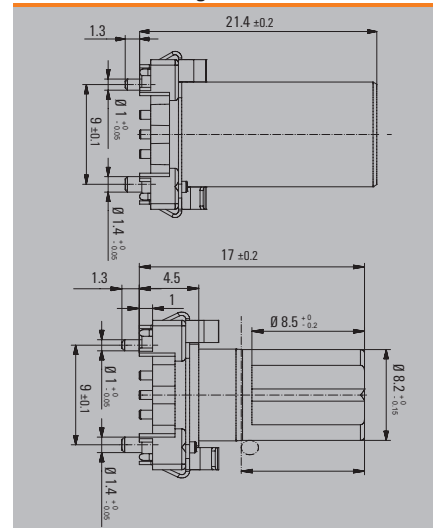
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
Rated current	4 A (4- and 5-pole) / 2 A (8-pole)
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Dimensioned drawing



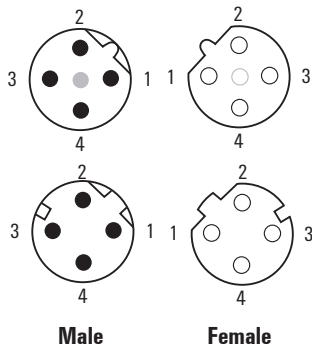
Dimensioned drawing





M12
SMT
DOM
shielded

Shielded



Ordering data

Male, straight	
	B-coded, 4-pole
	B-coded, 5-pole
Female, straight	
	B-coded, 4-pole
	D-coded, 4-pole
	B-coded, 5-pole
Note	

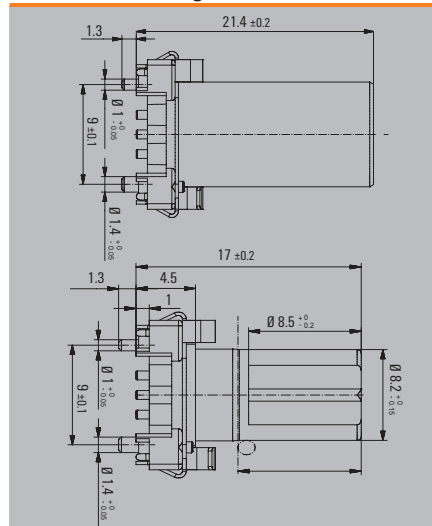
Type	QTY	Order No.
SAID-M12SB-4S-9SMT	25	2422720000
SAID-M12SB-5S-9SMT	25	2422780000
SAID-M12BB-4S-9SMT	25	2422840000
SAID-M12BD-4S-9SMT	25	2422960000
SAID-M12BB-5S-9SMT	25	2422900000

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

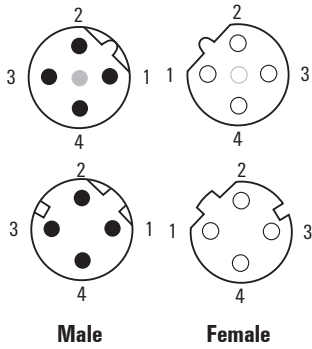
Dimensioned drawing



Built-in plugs



**M12
SMT
DOM
shielded**



Tape-on-reel



Ordering data

Male, straight	
	B-coded, 4-pole
	B-coded, 5-pole
Female, straight	
	B-coded, 4-pole
	D-coded, 4-pole
	B-coded, 5-pole
Note	

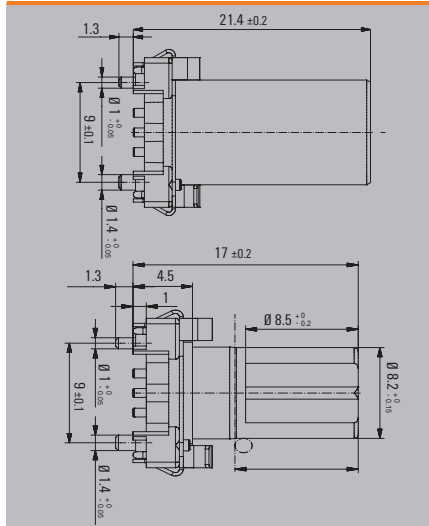
Type	QTY	Order No.
SAID-M12SB-4S-9SMT-TR	75	2422750000
SAID-M12SB-5S-9SMT-TR	75	2422810000
SAID-M12BB-4S-9SMT-TR	75	2422870000
SAID-M12BD-4S-9SMT-TR	75	2422990000
SAID-M12BB-5S-9SMT-TR	75	2422930000

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 60 V (5-pole)
Rated current	4 A
Temperature range	-25...95 °C
Protection degree	IP67
Contact surface	Au (Gold)
Housing main material	LCP
connection thread	M12
Tightening torque	M12: 0.8 Nm
Mounting thread	
Mounting torque range	
Note	

Dimensioned drawing

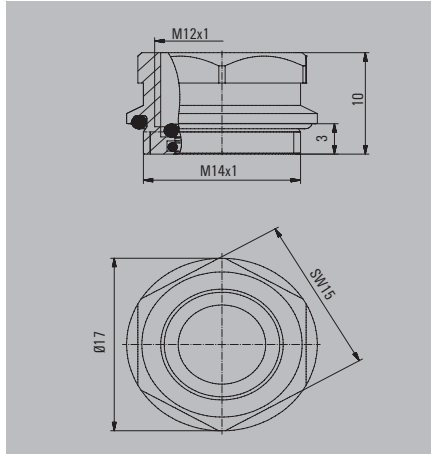


Built-in plugs

M12
Flange-mounted housing
Hexagon nut

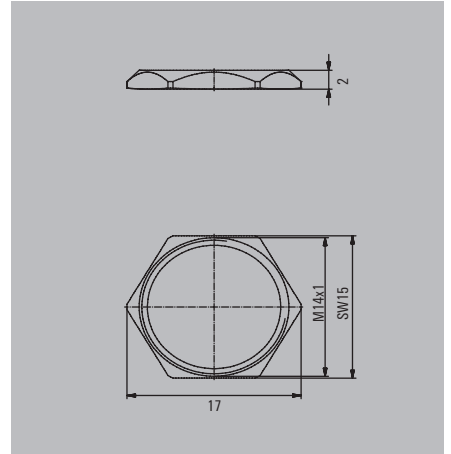
Plug connector

M14 height: 9 mm



Hexagon nut

M14 distance across flat: 15



Technical data

Housing main material
 Housing surface
 Seal material

CuZn
 nickel-plated
 FKM

CuZn
 nickel-plated

Note

Ordering data

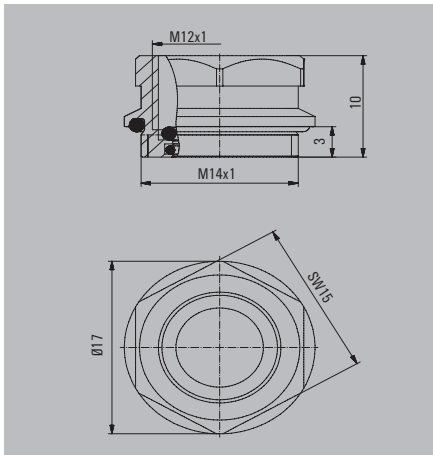
Type	QTY	Order No.
SAIFG-M14X1-S-1	25	2423980000

Type	QTY	Order No.
SAIE-KMM14X1-SW15	25	2424010000

Note

Coupling

M14 height: 9 mm



CuZn
nickel-plated
FKM

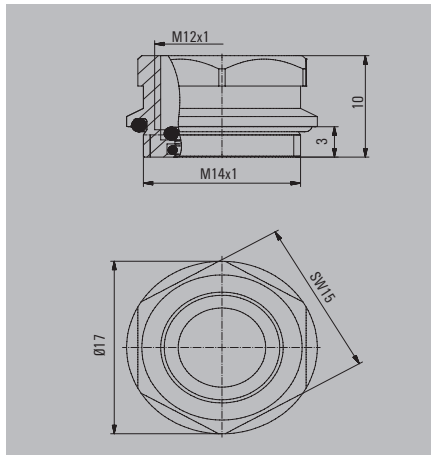


Type	QTY	Order No.
SAIFG-M14X1-B-1	25	2423920000



Coupling

M14 height: 13 mm



CuZn
nickel-plated
FKM

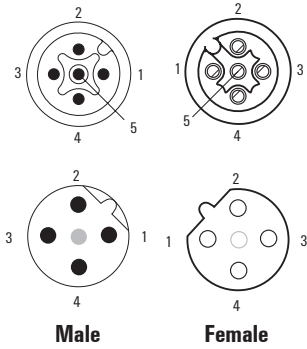


Type	QTY	Order No.
SAIFG-M14X1-B-2	25	2423950000



Built-in plugs

**M12
Solder cup**



Male

Female

Ordering data

Male, straight	
	A-coded, 5-pole
	B-coded, 4-pole
	B-coded, 5-pole
Note	

Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

Rear panel mounting



Front mounting



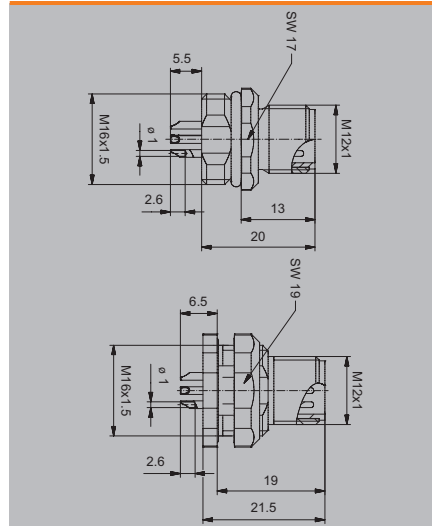
Type	QTY	Order No.
SAIE-M12S-5A-H-LK	10	2424210000
SAIE-M12S-5B-H-LK	10	2424240000

60 V
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

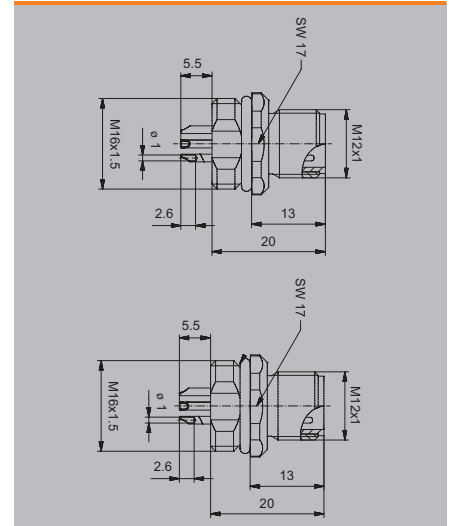
Type	QTY	Order No.
SAIE-M12S-5A-F-LK	10	2424160000
SAIE-M12S-4B-F-LK	10	2424180000

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
M16
1.2 Nm

Dimensioned drawing



Dimensioned drawing



M12
Solder cup
Square flange

Enclosure size 20 mm

Enclosure size 26 mm



Ordering data

Male, straight	
	A-coded, 4-pole
	A-coded, 5-pole
	B-coded, 4-pole
Note	

Type	QTY	Order No.
SAIE-M12S-5A-FV-20-LK	10	2424270000
SAIE-M12S-4B-FV-20-LK	10	2424310000
Note		

Type	QTY	Order No.
SAIE-M12S-4A-FV-26-LK	10	2424340000
SAIE-M12S-5A-FV-26-LK	10	2424370000
SAIE-M12S-4B-FV-26-LK	10	2424400000
Note		

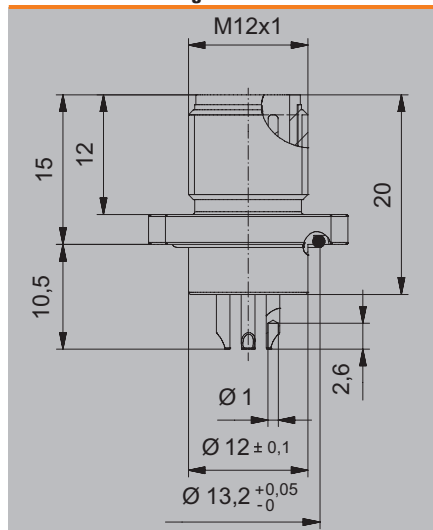
Technical data

Rated voltage (acc. to VDE standard 0110 ISO Group C)
Rated current
Temperature range
Protection degree
Contact surface
Housing main material
connection thread
Tightening torque
Mounting thread
Mounting torque range
Note

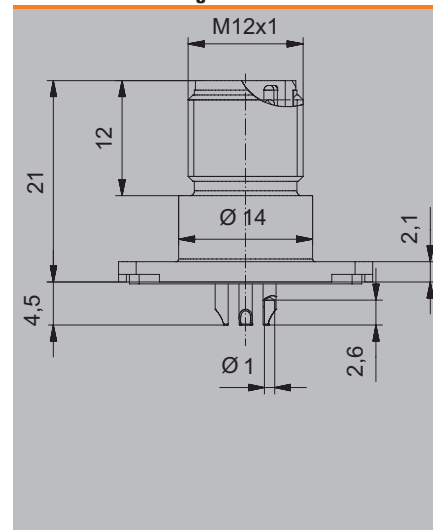
250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
Note

250 V (4-pole) / 60 V (5-pole)
4 A
-30...80 °C
IP67
Au (Gold)
CuZn, nickel-plated
M12
M12: 0.8 Nm
Note

Dimensioned drawing



Dimensioned drawing



7/8" connectors

7/8" connectors	Introduction	E.2
	7/8" plug-in connectors	E.6
	7/8" built-in plug	E.8
	7/8" sensor cables	E.13

Product description

Connectors with threads measured in inches have been used for many years, mainly outside Europe. The 7/8" thread types are the main group found within this group of products. They are essentially used in bus systems like Fieldbus Foundation or DeviceNet. In recent years these connectors also have become popular as supply ports for I/O nodes, due to the low number of pins and their sturdy construction.

Weidmüller now offers this product range in the following versions:

- Customisable connectors
- Built-in connectors
- Moulded cables



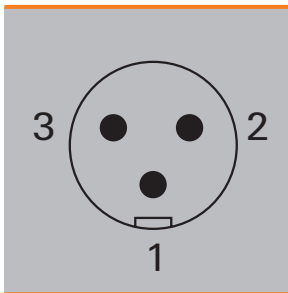
Customisable connectors

In certain circumstances it may be required to be able to assemble cables yourself. This may be for various reasons. For example, the length of the cable cannot be determined in advance, or during servicing, there may be a requirement to produce connections yourself. So that this can be easily achieved, simple connection solutions are required. With 7/8" connectors the screw connection provides the best solution due to its small dimensions and easy assembly. These customisable connectors also have sufficient space for the stranded wire ends. Weidmüller offers versions with differently sized cable glands to properly fit larger and smaller cable diameters. The contacts are gold-plated, for higher contact reliability.

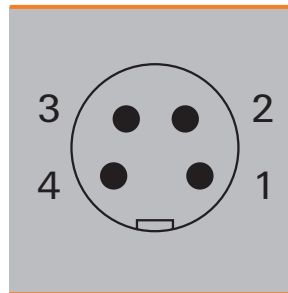


Pin out

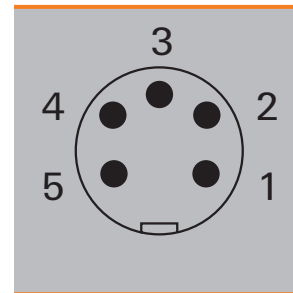
Male insert (mating side) 2+PE-pole



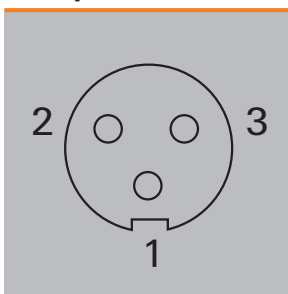
3 + PE-pole



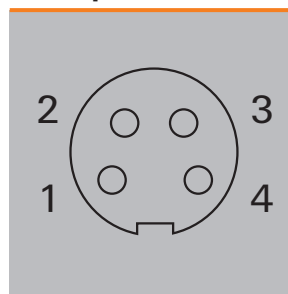
4+PE-pole



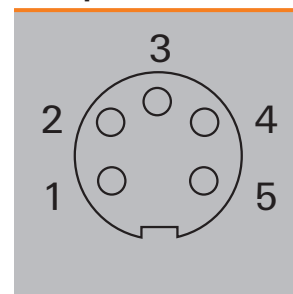
Female insert (mating side) 2+PE-pole



3 + PE-pole

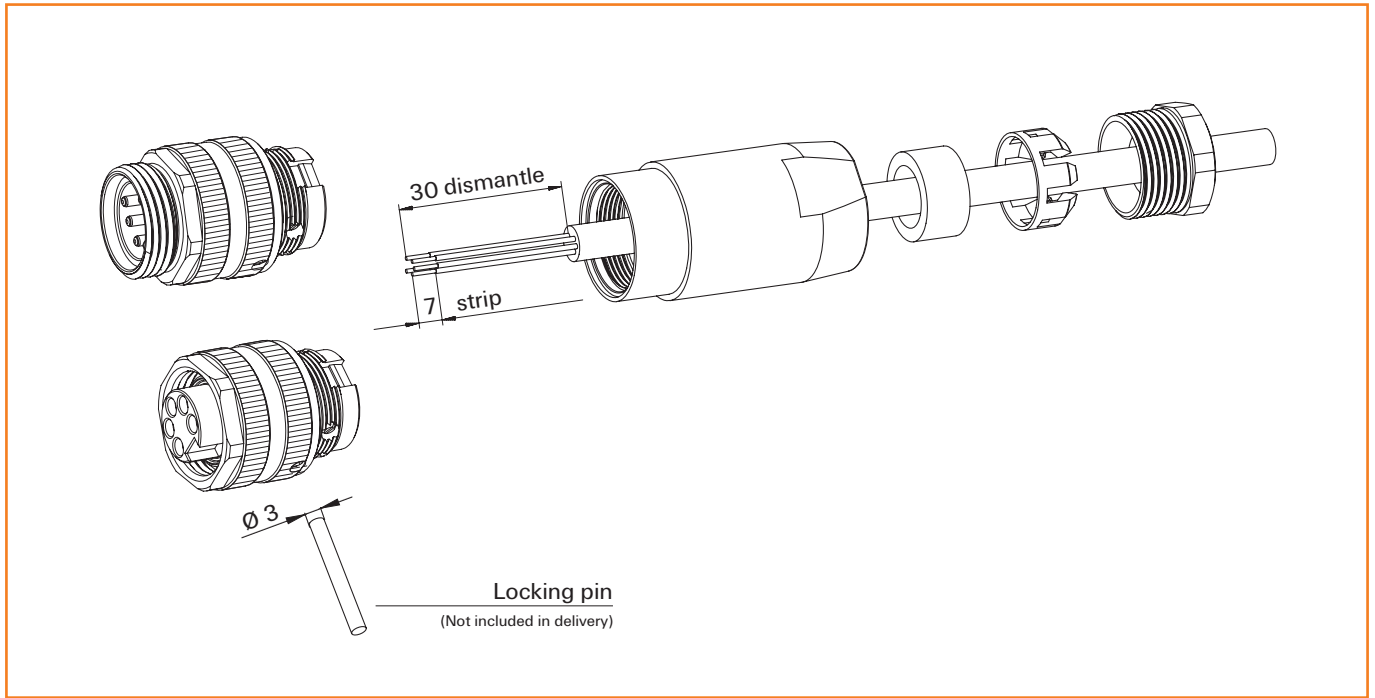


4+PE-pole

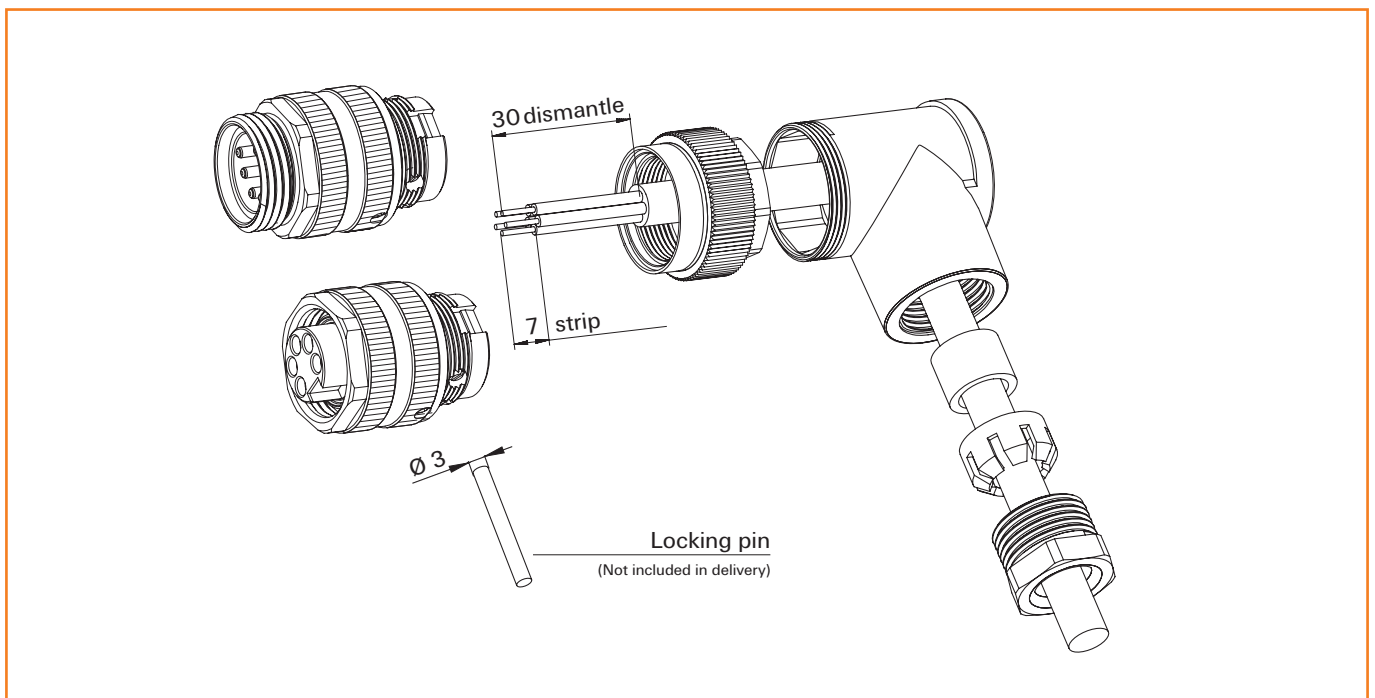


Customisable connector assembly instructions

Straight connector

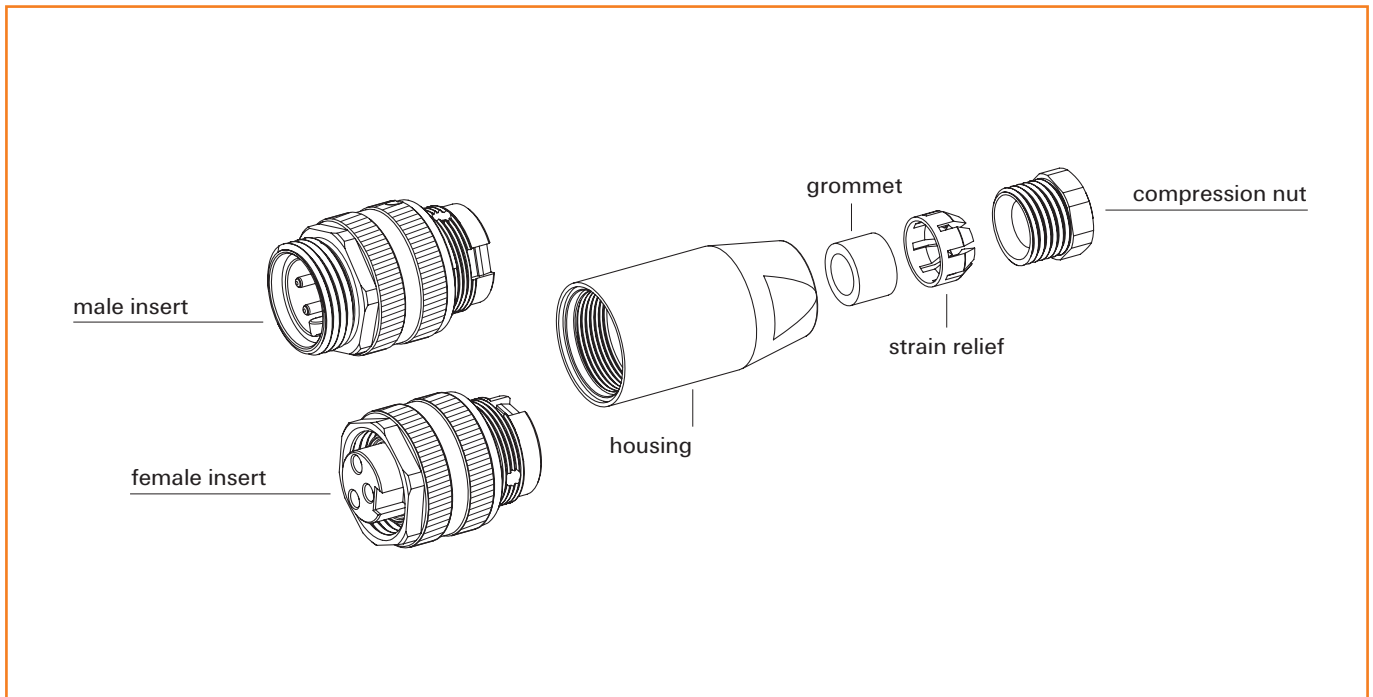


Angled connector

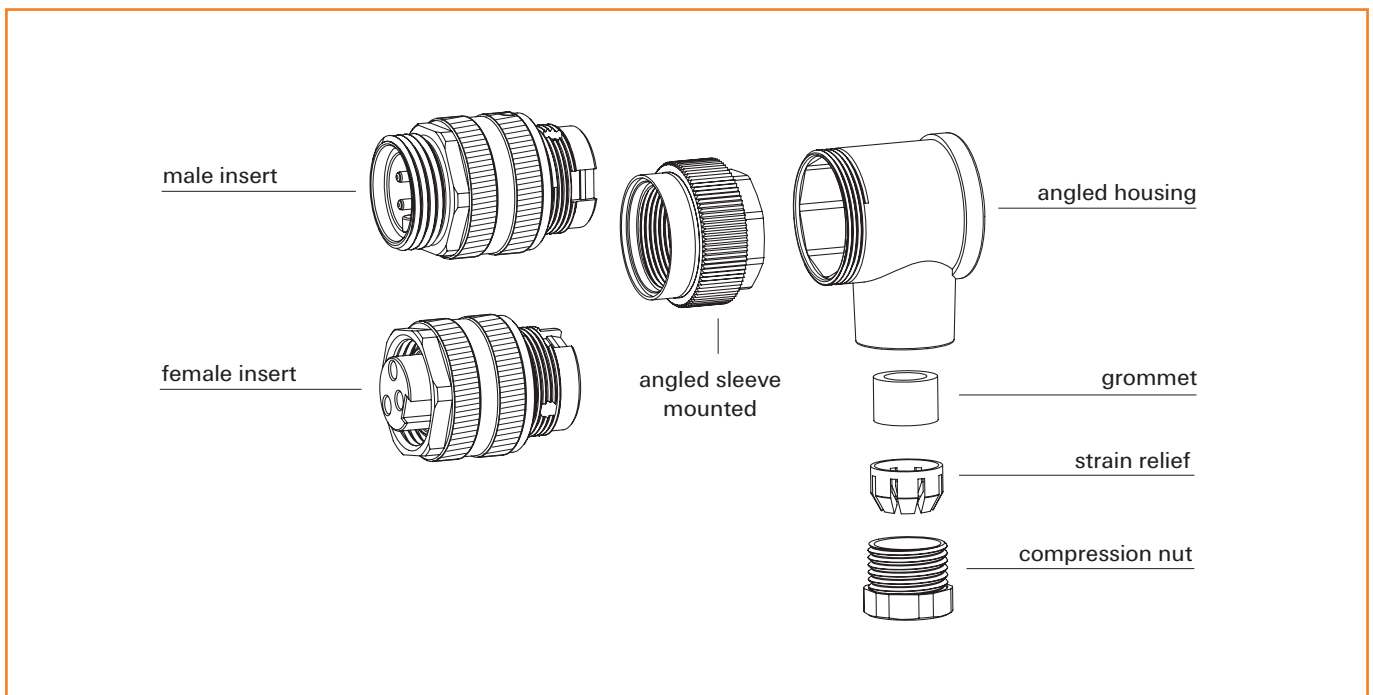


Individual component drawing of the customisable connector

Straight connector

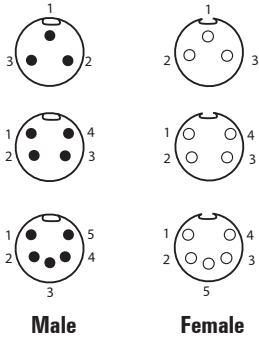


Angled connector



7/8" plug-in connectors

Screw connection 7/8", PG9
Cable diameter 6...8 mm



Ordering data

Male	
2-pole + PE, PG 9	
3-pole + PE, PG 9	
4-pole + PE, PG 9	
Female	
2-pole + PE, PG 9	
3-pole + PE, PG 9	
4-pole + PE, PG 9	
Note	

Technical data

Type of connection	Screw connection
Housing main material	PBT
connection thread	7/8"
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.5...1.5 mm ²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

SAIS / SAIB

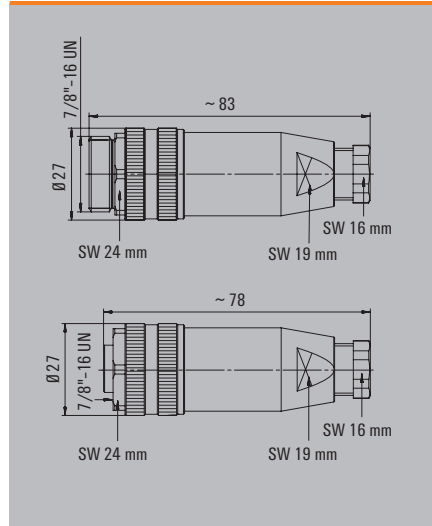
Straight



Type	QTY	Order No.
SAIS-3/9-7/8	1	1291870000
SAIS-4/9-7/8"	1	1808840000
SAIS-5/9-7/8	1	1301220000
Female		
SAIB-3/9-7/8	1	1291910000
SAIB-4/9-7/8"	1	1812480000
SAIB-5/9-7/8	1	1292000000
Note		

Type of connection	Screw connection
Housing main material	PBT
connection thread	7/8"
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.5...1.5 mm ²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

Dimensioned drawing



SAISW / SAIBW

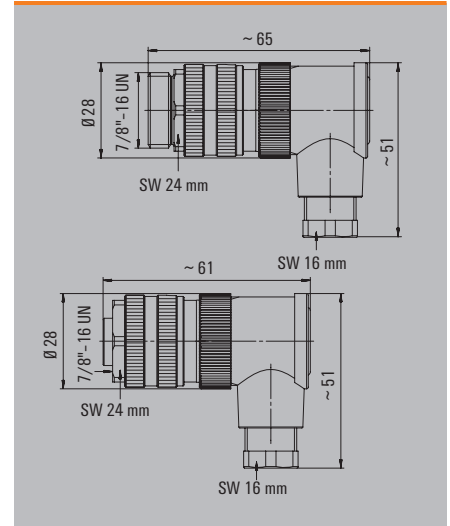
Angled



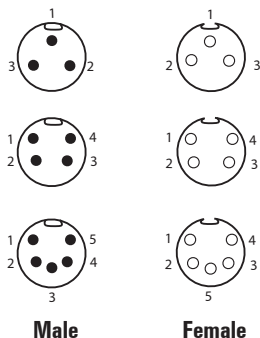
Type	QTY	Order No.
SAISW-3/9-7/8	1	1291890000
SAISW-4/9-7/8"	1	1808830000
SAISW-5/9-7/8	1	1291980000
Female		
SAIBW-3/9-7/8	1	1291930000
SAIBW-4/9-7/8"	1	1812470000
SAIBW-5/9-7/8	1	1292020000
Note		

Type of connection	Screw connection
Housing main material	PBT
connection thread	7/8"
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.5...1.5 mm ²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

Dimensioned drawing



Screw connection 7/8", PG11
Cable diameter 8...10 mm



Ordering data

Male	
	2-pole + PE, PG 11
	3-pole + PE, PG 11
	4-pole + PE, PG 11
Female	
	2-pole + PE, PG 11
	3-pole + PE, PG 11
	4-pole + PE, PG 11
Note	

Technical data

Type of connection	Screw connection
Housing main material	PBT
connection thread	7/8"
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.5...1.5 mm ²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

SAIS / SAIB

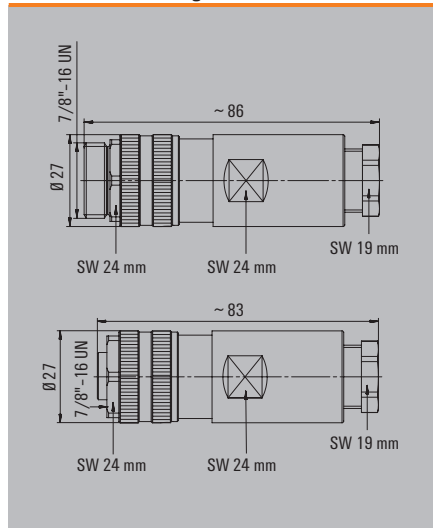
Angled



Type	QTY	Order No.
SAIS-3/11-7/8	1	1291880000
SAIS-4/11-7/8	1	1291950000
SAIS-5/11-7/8	1	1291970000
<hr/>		
SAIB-3/11-7/8	1	1291920000
SAIB-4/11-7/8	1	1292050000
SAIB-5/11-7/8	1	1292010000
Note		

Type of connection	Screw connection
Housing main material	PBT
connection thread	7/8"
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.5...1.5 mm ²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

Dimensioned drawing



SAISW / SAIBW

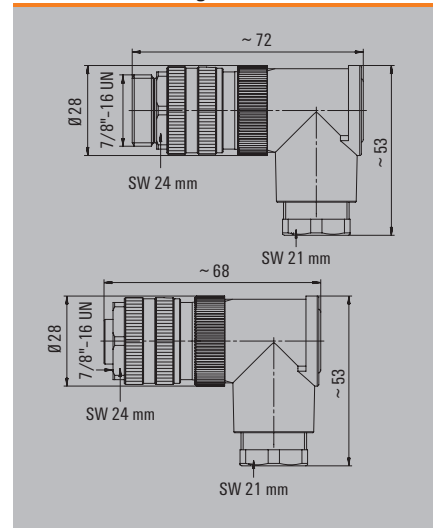
Angled



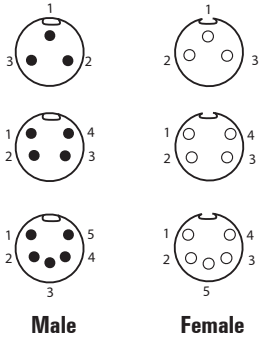
Type	QTY	Order No.
SAISW-3/11-7/8	1	1291900000
SAISW-4/11-7/8	1	1292040000
SAISW-5/11-7/8	1	1291990000
<hr/>		
SAIBW-3/11-7/8	1	1291940000
SAIBW-4/11-7/8	1	1292070000
SAIBW-5/11-7/8	1	1292030000
Note		

Type of connection	Screw connection
Housing main material	PBT
connection thread	7/8"
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.5...1.5 mm ²
Rated current	9 A (4- and 5-pole), 12 A (3-pole)
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 50
Pollution severity	3
Note	

Dimensioned drawing



7/8" built-in plug



7/8"

Back panel mounting



Ordering data

Male	
	4-pole
	2-pole + PE
	4-pole + PE
Female	
	4-pole
	2-pole + PE
	4-pole + PE
Note	

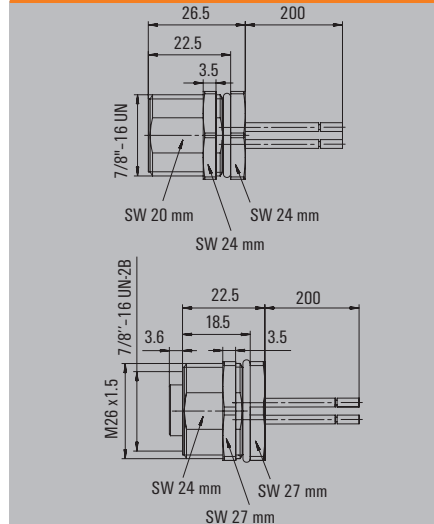
Type	QTY	Order No.
SAIE-7/8S-4-0.2U-H	1	1292420000
SAIE-7/8S-3-0.2U-H	1	1292350000
SAIE-7/8S-5-0.2U-H	1	1292490000
SAIE-7/8B-4-0.2U-H	1	1292450000
SAIE-7/8B-3-0.2U-H	1	1292390000
SAIE-7/8B-5-0.2U-H	1	1292520000
Note		

Technical data

Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

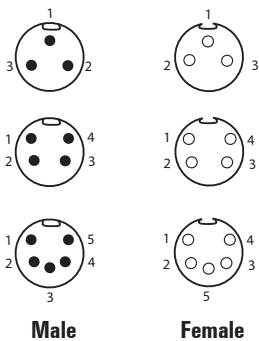
Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing



7/8"

PG 11



Ordering data

Male	
	4-pole
	2-pole + PE
	4-pole + PE
Female	
	4-pole
	2-pole + PE
	4-pole + PE
Note	

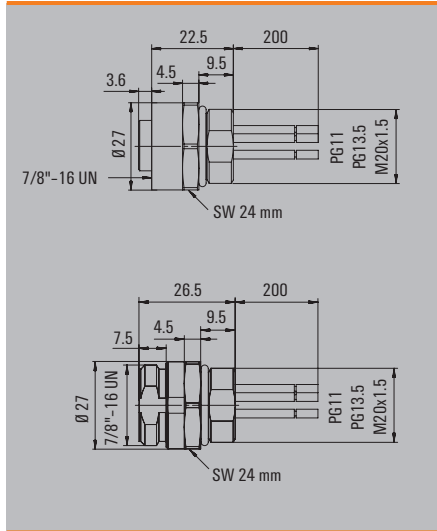
Type	QTY	Order No.
SAIE-7/8S-4-0.2U-PG11	1	1292400000
SAIE-7/8S-3-0.2U-PG11	1	1292330000
SAIE-7/8S-5-0.2-PG11	1	1292470000
SAIE-7/8B-4-0.2U-PG11	1	1292430000
SAIE-7/8B-3-0.2U-PG11	1	1292370000
SAIE-7/8B-5-0.2U-PG11	1	1292500000
Note		

Technical data

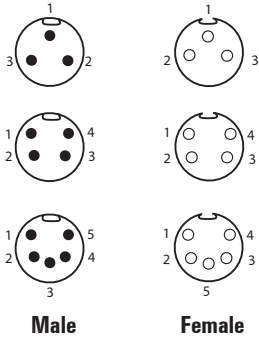
Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing



7/8" built-in plug



7/8"

PG 13.5



Ordering data

Male	
	4-pole
	2-pole + PE
	4-pole + PE
Female	
	4-pole
	2-pole + PE
	4-pole + PE
Note	

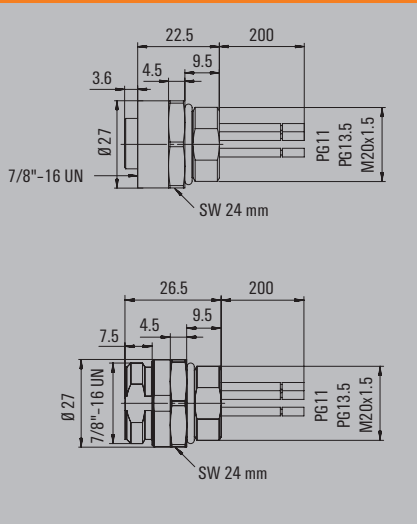
Type	QTY	Order No.
SAIE-7/8S-4-0.2U-PG13.5	1	1292410000
SAIE-7/8S-3-0.2U-PG13.5	1	1292340000
SAIE-7/8S-5-0.2U-PG13.5	1	1292480000
SAIE-7/8B-4-0.2U-PG13.5	1	1292440000
SAIE-7/8B-3-0.2U-PG13.5	1	1292380000
SAIE-7/8B-5-0.2U-PG13.5	1	1292510000
Note		

Technical data

Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

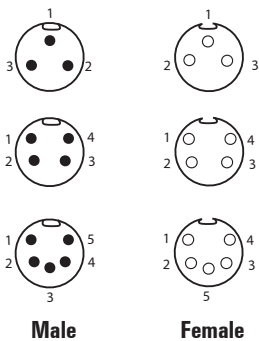
Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing



7/8"

M20



Ordering data

Male	
	4-pole
	2-pole + PE
	4-pole + PE
Female	
	4-pole
	2-pole + PE
Note	

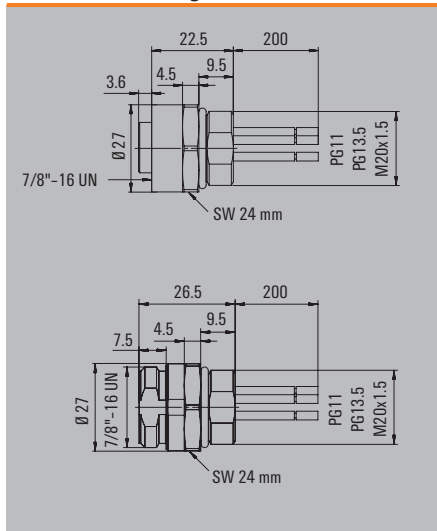
Type	QTY	Order No.
SAIE-7/8S-4-0.2U-M20	1	1418050000
SAIE-7/8S-3-0.2U-M20	1	1418040000
SAIE-7/8-S-5-0.2U-M20	1	1471490000
SAIE-7/8-B-4-0.2U-M20	1	1471520000
SAIE-7/8-B-3-0.2U-M20	1	1471510000

Technical data

Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Housing main material	Zinc diecast, nickel-plated
connection thread	7/8"
Core cross-section	0.75 mm ²
Rated current	8 A (4- and 5-pole), 10 A (3-pole)
Rated voltage	300 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Note	

Dimensioned drawing

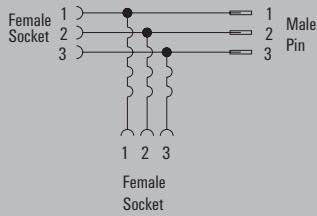


7/8" built-in plug

T distributor

7/8" / 7/8"

3-pole

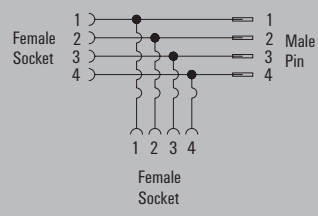


Ordering data

Type	QTY	Order No.
SAI-Y-7/8 3P	1	1413920000

7/8" / 7/8"

4-pole

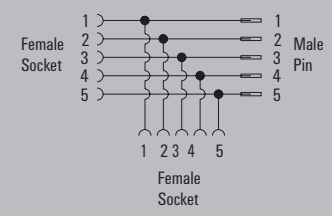


Ordering data

Type	QTY	Order No.
SAI-Y-7/8 4P	1	1413930000

7/8" / 7/8"

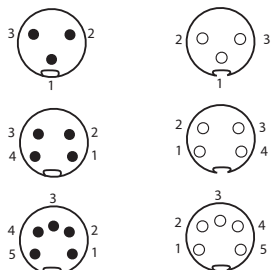
5-pole



Ordering data

Type	QTY	Order No.
SAI-Y-7/8 5P	1	1413940000

7/8" one end without connector



Male

Female



Ordering data

Male, straight	1.5 m
Male, angled	1.5 m
Female, straight	1.5 m
Female, angled	1.5 m
Note	

2-pole+PE

SAIL-7/8G-3-1.5U	1292080150
SAIL-7/8W-3-1.5U	1292090150
SAIL-7/8BG-3-1.5U	1292100150
SAIL-7/8BW-3-1.5U	1292110150
Cable outside diameter: 7.4 ± 0.2 mm	

3-pole+PE

SAIL-7/8G-4-1.5U	1292120150
SAIL-7/8W-4-1.5U	1292130150
SAIL-7/8BG-4-1.5U	1292140150
SAIL-7/8BW-4-1.5U	1292150150
Cable outside diameter: 8.0 ± 0.2 mm	

4-pole+PE

SAIL-7/8G-5-1.5U	1292170150
SAIL-7/8W-5-1.5U	1292180150
SAIL-7/8BG-5-1.5U	1292190150
SAIL-7/8BW-5-1.5U	1292200150
Cable outside diameter: 8.7 ± 0.2 mm	

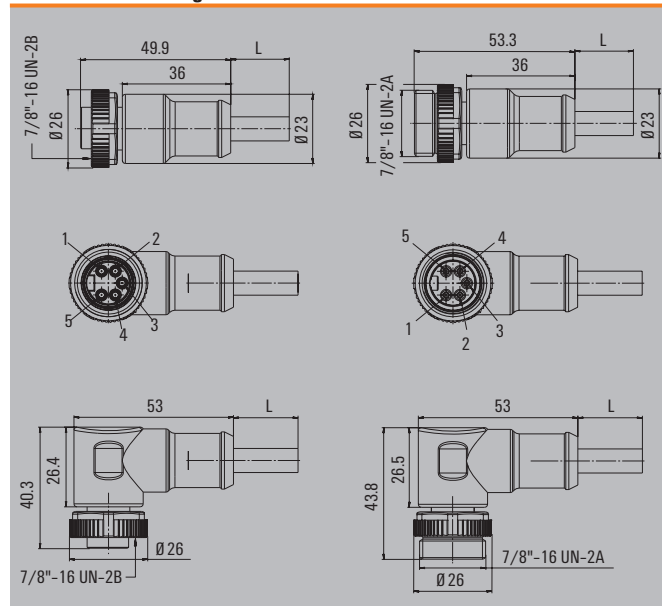
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Rated current / Rated voltage	9 A (4- and 5-pole), 12 A (3-pole) / 300 V
Protection degree	IP68, when screwed in
Core cross-section	1.5 mm ²
Contact surface / Contact material	Au (Gold) / CuZn
Housing main material	PUR
Sheathing colour	Black
Temperature range of housing	-25...+85 °C
Plugging cycles	≥ 100
Pollution severity	3

Dimensioned drawing



Torques and spanner sizes

Torques and distances across flats of the cable gland

The following values for strain relief apply to plug-in connectors with strain relief

Cable Ø	Min. cable pull strength	Recommended torque of the clamping screw
2 - 3	min. 20 N	0.3 - 0.4 Nm
3 - 4	min. 30 N	0.3 - 0.4 Nm
4 - 5	min. 40 N	0.8 - 1.0 Nm
5 - 6	min. 50 N	0.8 - 1.0 Nm
6 - 7	min. 60 N	0.8 - 1.0 Nm
7 - 8	min. 70 N	0.8 - 1.0 Nm
8 - 12	min. 80 N	1.0 - 1.4 Nm
12 - 14	min. 120 N	1.0 - 1.4 Nm

Note: Torque of the: 7/8" plug-in connector: 1.5 Nm (spanner size: 24)
M 2.5 Threaded bolt: 0.4 Nm

Torque applicable for the mounting in enclosures

Cable gland	Recommended tightening torque for built-in plugs
PG 11	6,26 Nm
PG 13,5	6,25 Nm
M20 x 1,5	12,00 Nm
back panel mounting	12,00 Nm

Note:

M23 Connectors and cables

M23 Connectors and cables	Product Description: SAI M23 Connectors	F.2
	Contact assignment	F.7
	Technical data	F.8
	Overview	F.10
	M23 connector for signal transmission	F.12
	M23 connector for power transmission	F.30
	M23 protective caps	F.34
	Moulded M23 cables	F.36
	SAI distributor M12 with M23	F.37
	SAI distributor M8 with M23	F.39
	Installation instructions - Signal connectors	F.40
	Installation instructions - Power connectors	F.45
	M23 connector	F.49

SAI M23

A comprehensive product line of connectors, distributors and cables

M23 connectors are mainly used for connecting electrical drives and servo-motors into industrial automation applications.

The M23 connectors are very easy to handle and operate. In addition to the injection-moulded variants and the SAI distributors with M23 connectors, Weidmüller is now offering customisable versions and built in plugs.

F





The M23 built in connector

The M23 built in connector provides a custom fit solution for building directly into the device.



M23 connectors for crimping

M23 connectors are easy to handle and operate. This is supported by the type of crimping that is used.



Robust metal housing

The M23 connectors feature an extra robust design.



Solutions for power and signals

The extensive product line includes the key housing shapes, such as angled connectors, coupling connectors and device connectors.



M23 connector for signal transmission
Housings



M23 connector for signal transmission
Built in connector



M23 connector for power transmission
Housings



M23 connector for power transmission
Built-in connector



Moulded M23 cables



SAI distributors

Product Description: SAI M23 Connectors

Technology and requirements

The M23 connectors are mainly used for integrating electrical drives and servo motors into industrial automation facilities. The M23 designation is based on the thread diameter of the connector, as shown in Figures 1 and 2. With their wide variety of inserts and housings, these connectors are equally suited for applications involving signal or power transmission. Applications set in harsh industrial environments place strict requirements on the connector. Much is demanded of the housing, the inner insert and the connector contact. Thermal loads, physical loads, and loads from the transmitted electrical power are commonplace. M23 connectors are capable of carrying a load of up to 250/630 V at 9/30 A.

F

The connectors must be resistant to the penetration of all particles and substances. They must also comply with the required class of IP protection. The material used for manufacture must be resistant to acid and alkaline solutions that may be used during cleaning or production processes. Also it must not be possible for residues to accumulate in the plug which could later contaminate the production flow. It must not be possible for the plug components to loosen due to vibration. In addition, the cable and connector must have EMC shielding for some applications. This keeps external interference from influencing the signals and it also prevents the transmitted signals in the cable from interfering with other cables or components. The standards and directives (such as the German or European standards) that are followed are basically only recommendations concerning the composition of the connector. A so-called "cold standard" exists for the M23 connectors.

Variants and designs

The variants can be generally classified according to their outer design, into either customisable types, or plastic moulded connectors with pre-connected cables. Both variants are available in male or female versions, and in straight or angled design. Different designs and inserts can be combined to fit the particular application so that an almost limitless variety of combinations is possible. The connector inserts are available in a variety of different pole counts and as either male or female versions. The pole counts also vary in that some contacts in the mating profile may have a larger cross-section than the others. Other types include the device connector variants which are used for contacting and connecting housings. These also come in a variety of designs. The metal alloy in use may differ depending on the particular type of application. For example, stainless steel is used for those variants that will be used in the food processing industry. Each connector is optionally available with EMC protection and a plastic surface.

Customisable connectors

Customisable connectors are almost all manufactured from metal alloys. Variants with plastic housings or fitting nuts are rare and used mostly for customer-specific solutions. Customisable connectors are made up of a housing, a plastic contact carrier, and the contacts themselves. The various housing types can be equipped with the corresponding contact carriers. The carriers differ in their number of poles and the arrangement of the poles. Different types of contacts may also be used within the contact carriers. The shape of the contacts is either male or female. There are also difference in the width, material, and connection system (such as soldered, crimped or screwed).

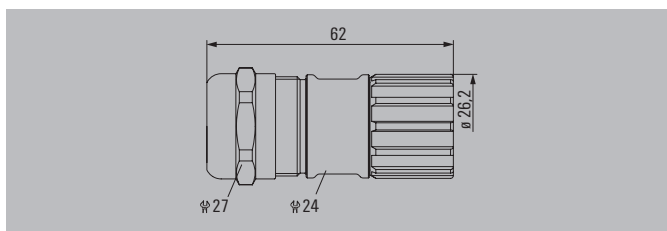


Figure 1: M23 cable connector

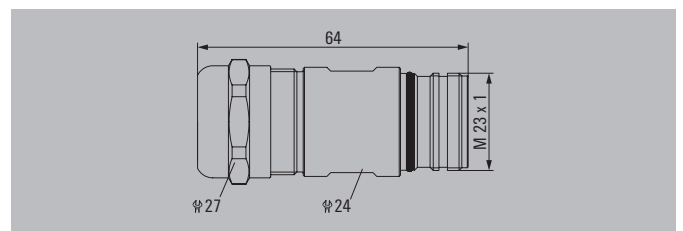


Figure 2: M23 coupling connector

This modular construction allows for a wide variety of combinations to fit any application type. Figure 3 shows the design and assembly of an M23 signal connector. Since the connector is usually put together in the field, the key requirement is that the connector is easy and reliable for the electrician to handle on-site. A good example of convenient

handling is the integrated EMC shielding. An improved shield connection results because the shielding can be connected in less steps and with fewer tools. The complete assembly process must be clear and concise, and should only take a few steps.

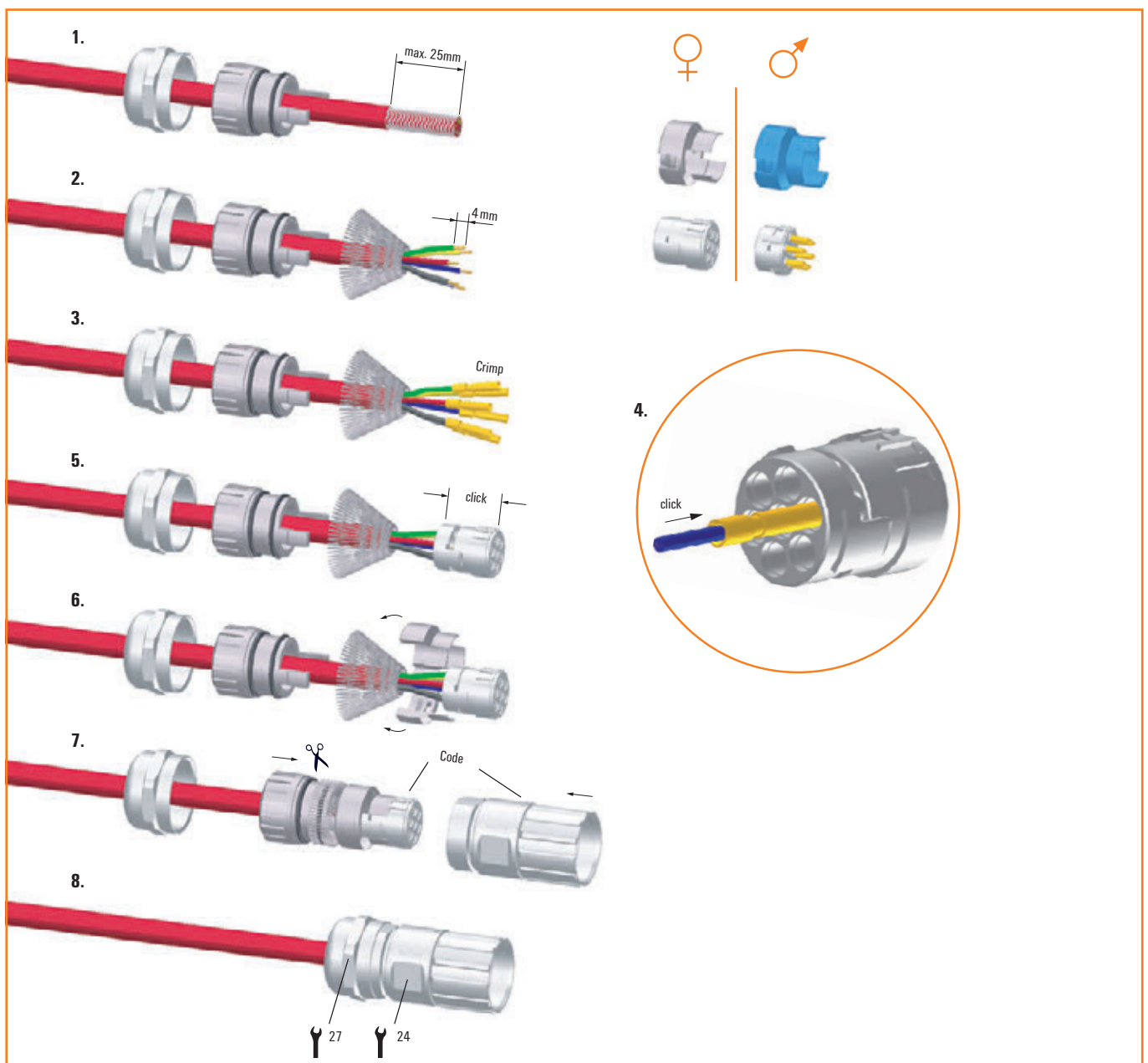


Figure 3: Design and assembly of an M23 connector

Plastic injection moulded connector with connected cable

Plastic injection moulded cables are cables that have already been fitted with connectors. First the cables are connected with the contacts and then these are mounted into the contact carrier. Next, plastic injection moulding is used to cover the cable and contact carrier with a plastic moulding. This ensures a highly stable and well sealed connector housing. The connector must be destroyed for it to be disconnected from its cable. The connector's outer form and material is put together by a plastic processing tool. The advantage of a moulded cable is that the connection between the cable and the connector has already been tested at the production factory. The electrician need



Plastic injection-moulded M23 connector

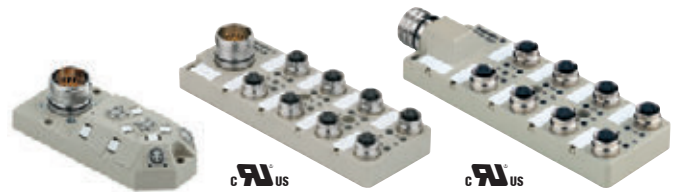
only adjust the length. Depending on the application, he may choose to use another connector on the open end or connect the individual cable wires directly (for example, to a terminal block). The advantages of this variant type includes the inexpensive assembly of large batches, the high degree of automation and minimal amount of material used. High reliability and an excellent seal are two additional advantages.

Connector usage and application

M23 connectors are mainly used for integrating within machine and facility construction applications. These applications require connections with a long life span and high reliability. The failure of a single connector could lead to the failure of the entire production line. It's important to avoid facility outages caused by a connector malfunction, so the machine and facility construction industry relies on connectors with the advantages listed above. Both signals and power must be transferred in such applications. The connector and the cable must be able to withstand harsh industrial conditions. Cables may be under stress from constant motion, in particular for applications involving robotics or dragline chains. Special cables with a specific maximum bending radius are used for such applications (for example, the bending radius may be 10d, i.e., ten times the cable diameter). When constructing a facility, a variety of

connection scenarios are possible based on the particular conditions or adaptations of existing facilities. The length or configuration of the cable must be adapted to fit these conditions. If space is constricted, for instance, it may be necessary to replace a straight connector with an angled one.

Cables can be equipped with both a moulded (extruded) connector and a customisable connector. This ensures proper functionality while providing the flexibility to adapt to changing conditions on location. Safe connections can thus be established with any possible connector combination or at any protective class required. This gives the facility planner the safety he needs. And the electrician on-site can set up the facility properly because he has sufficient



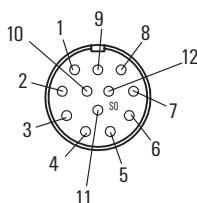
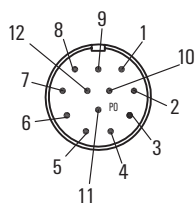
SAI distributor with M23 connector

flexibility to adapt to uncertain conditions. For sensor systems, connectors with high pole counts are often used on SAI distributors. Individual sensors are connected to the distributors where the signals are then centralised. They are then transferred to the controller using a cable with an M23 connector. The most common use for transmitting power involves the connection of servo-motors in machines. M23 connectors are used for this purpose because of their sturdy and compact design and their high power-carrying capacities. Because of the size of the M23 connector, it can also be used in a hybrid version for transmitting both signals and power. The signal-carrying contacts are then shielded within the connector to ensure that the transmitted voltages do not interfere with the signals.

Contact assignment SAI M23

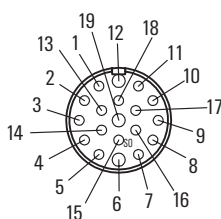
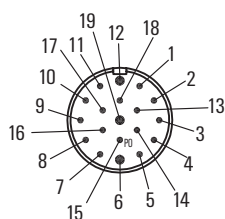
M23 12- and 19-pole, for SAI distributors and cables

12-pole



Pole	Colour code	Plug-in station	Contact M12
1	white	1	4
2	green	2	4
3	yellow	3	4
4	grey	4	4
5	pink	5	4
6	red	6	4
7	black	7	4
8	violet	8	4
9	blue (-)	1-8	3
10	blue (-)	1-8	3
11	brown (+)	1-8	1
12	green-yellow (PE)	1-8	5

19-pole



Pole	Colour code	Plug-in station	Contact M12
1	violet	8	4
2	red	6	4
3	grey	4	4
4	red/blue	2	2
5	green	2	4
7	grey/pink	1	2
8	white/green	3	2
9	white/yellow	5	2
10	white/grey	7	2
11	black	7	4
13	yellow/brown	6	2
14	brown/green	4	2
15	white	1	4
16	yellow	3	4
17	pink	5	4
18	grey/brown	8	2
6	blue (-)	1-8	3
12	green-yellow (PE)	1-8	5
19	brown (+)	1-8	1

Description code

Housing	
G	Inner thread
K	Outer thread
W	angled
S	Signal connectors
L	Power connectors
7/12	Cable passage
Inserts	
BE	Female insert
SE	Male insert
4/4	Number of contacts, here for 4 sensor and 4 power contacts
Contacts	
KBC	Female contact
Wire cross-section	
0.08/0.56	0.08 mm ² - 0.56 mm ²
0.25/1.0	0.25 mm ² - 1.0 mm ²
0.75/2.5	0.75 mm ² - 2.5 mm ²
Moulded M23 cables	
SAIS	Cable with male plug
SAIB	Cable with female plug
12p	12-pole
19p	19-pole
AN	angled
ST	straight
...M	Length in metres

Contact partitioning

Signal connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
7-pole			7
9-pole	8		1
12-pole	12		
16-pole	16		
17-pole	17		
19-pole	16	3	
Power connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
4+4-pole	4		4

Contacts for signal plugs cannot be used in inserts for power plugs and vice versa.

Technical data

Signal connectors

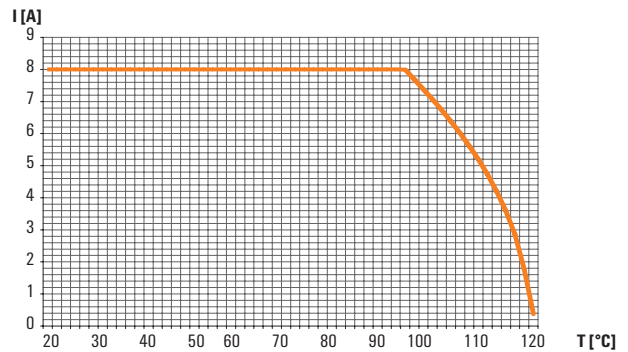
Technical data

Mechanical data	
Housing	Copper-Zinc alloy Die Casting
Housing surface	Nickel plated brass other surface upon request
Inserts (for contacts)	Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT / Fire protection class V-0
Contacts	Copper-Zinc alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm Au)
Minimum mating cycles	> 1000
Seals / O-Rings	Buna-N standard optional Viton® (Viton is a registered trademark of DuPont)
Temperature range	-40 °C - 125 °C
Type of contacts	Crimp, solder, dip-solder (PCB)
Protection, Imperviousness	IP 67 / IP 69 K per EN 60 529 (connected)
Cable diameter range	3 - 17 mm

Electrical Data										
Number of positions		6	7	9	12	16	17	19		
Number of contacts		6	7	8	1	12	16	17	16	3
Contact-Ø	mm	2	2	1	2	1	1	1	1	1.5
Nominal current	A	20	20	8	20	8	8	8	8	10
Nominal voltage at pollution degree 2	V~	630	630	500	500	400	400	400	320	
Nominal voltage at pollution degree 3	V~	300	300	200	200	160	160	160	100	
Test voltage	V~	2500	2500	2500	2500	1500	1500	1500	1500	
Insulation resistance	MΩ	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰	> 10 ⁶	> 10 ⁶	> 10 ⁶	> 10 ⁶	
Max. contact resistance	mΩ	3	3	3	3	3	3	3	3	

Derating curve

Straight Connectors male + female M 23, 12-pole,
wires 12 x AWG17



Power connectors

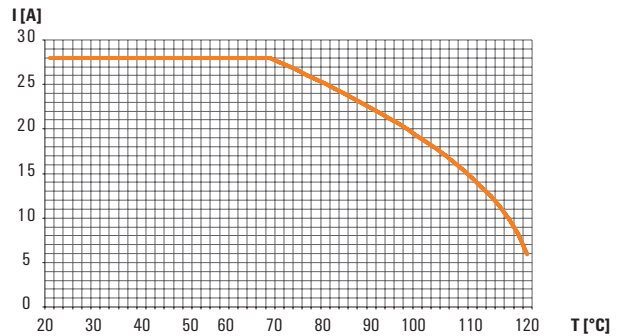
Technical data

Mechanical data	
Housing	Copper-Zinc alloy Die Casting
Housing surface	Nickel plated brass other surface upon request
Inserts (for contacts)	Thermoplastic Polyamid PA 6 (Nylon 6/6), PBT / Fire protection class V-0
Contacts	Copper-Zinc alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm Au)
Minimum mating cycles	> 1000
Seals / O-Rings	Buna-N standard optional Viton® (Viton is a registered trademark of DuPont)
Temperature range	-40 °C - 125 °C
Type of contacts	Crimp
Protection, Imperviousness	IP 67 / IP 69 K per EN 60 529 (connected)
Cable diameter range	7 - 17 mm

Electrical Data		5 + PE		4/4	
Number of positions		6		4	
Number of contacts		6		4	
Contact-Ø	mm	2		2	
Nominal current	A	28		28	
Nominal voltage at pollution degree 2	V~	800		800	
Nominal voltage at pollution degree 3	V~	600		600	
Test voltage	V~	4000		4000	
Insulation resistance	MΩ	> 10 ¹³		> 10 ¹³	
Max. contact resistance	mΩ	3		3	















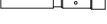







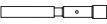



Derating curve

Straight connectors male + female M 23, 5 + PE,
wires 5 x AWG12






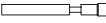


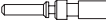


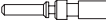









M23 connector for signal transmission

All customisable connectors can also be assembled together with shielded cables.

Housing	Contact inserts*	Contacts
Cable connector 	6-pole 	Crimp pin 1 mm rotated 0.08 - 0.56 mm ² 
Coupling connector 	7-pole 	Crimp pin 1 mm rotated 0.14 - 1.00 mm ² 
Angled connector 	9-pole 	Crimp pin 1 mm rotated 1.00 - 1.50 mm ² 
Angled connector (coupling) 	12-pole 	Crimp socket 1 mm rotated 0.08 - 0.56 mm ² 
Device connector (front panel) 	16-pole 	Crimp socket 1 mm rotated 0.14 - 1.00 mm ² 
Device connector with knurled nut 	17-pole 	Crimp socket 1 mm rotated 1.00 - 1.50 mm ² 
Device connector (single-hole mount) 	19-pole 	Crimp pin 2 mm rotated 0.14 - 0.56 mm ² 
Device connector (angled) 		Crimp socket 2 mm rotated 0.56 - 1.00 mm ² 
Device connector (back panel) 		Crimp pin 2 mm rotated 0.75 - 2.50 mm ² 
		Crimp socket 2 mm rotated 0.75 - 2.50 mm ² 
* Solder and crimp inserts		

M23 connector for power transmission

Housing	Contact inserts*	Contacts
Cable connector 	6 x Male 2 mm 	Crimp pin 1 mm turned 0.25 - 1.00 mm ² 
Coupling connector 	6 x Socket 2 mm 	Crimp socket 1 mm turned 0.25 - 1.00 mm ² 
Angled connector 	4 x Male 1 mm 4 x Male 2 mm 	Crimp pin 2 mm turned 0.75 - 2.50 mm ² 
Angled connector (coupling) 	4 x Socket 1 mm 4 x Socket 2 mm 	Crimp pin 2 mm turned 2.50 - 4.00 mm ² 
Device connector (front panel) 		Crimp socket 2 mm turned 0.75 - 2.50 mm ² 
Device connector with knurled nut 		Crimp socket 2 mm turned 2.50 - 4.00 mm ² 
Device connector (back panel) 		
Device connector (back panel) 		
Device connector (angled) 		
	* Crimp inserts	

F

Moulded M23 cables

Housing
Cable connector
Coupling connector
Angled connector
Angled connector (coupling)

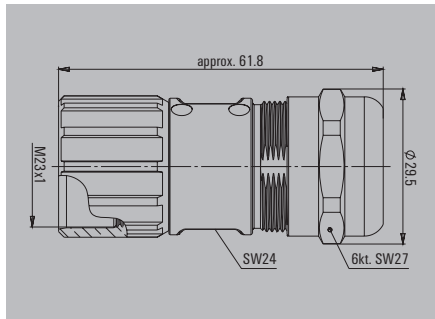


M23 connector for signal transmission

Housing

For cable diameters: 7 - 12 mm

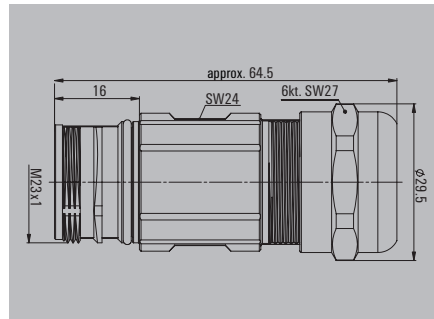
Cable plug-in connector



Ordering data

Type	QTY	Order No.
SAI-M23-GS-11/17	1	1299390000

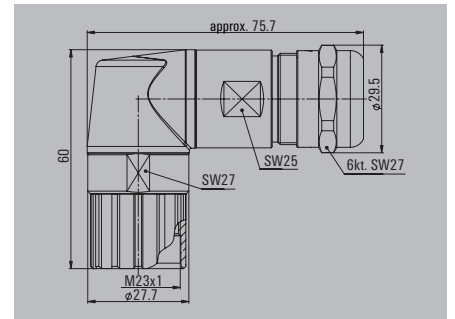
Coupling plug-in connector



Ordering data

Type	QTY	Order No.
SAI-M23-KS-7/12	1	1169900000

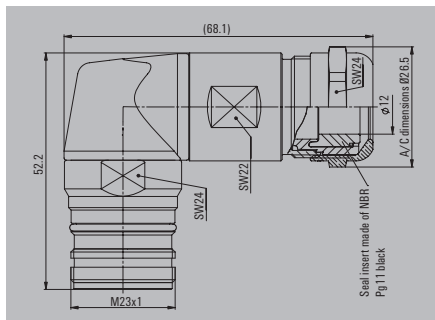
Angle plug-in connector



Ordering data

Type	QTY	Order No.
SAI-M23-GSW-S-7/12	1	1169920000

Angle plug-in connector coupling

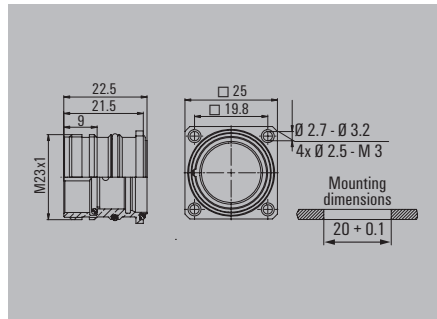


Ordering data

Type	QTY	Order No.
SAI-M23-KSW-7/12	1	1169930000

Built-in connector

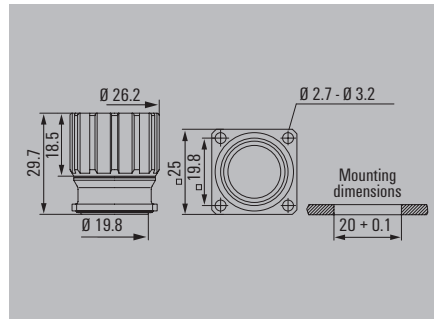
Device connector (front wall)



Ordering data

Type	QTY	Order No.
SAIE-M23-S-VW	1	1169940000

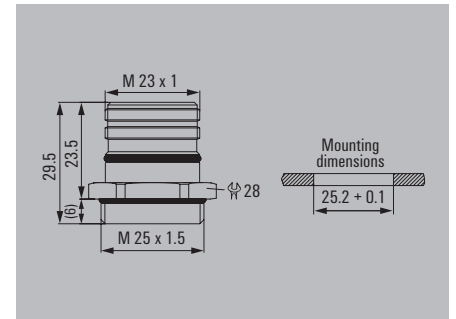
Device connector with knurled nut



Ordering data

Type	QTY	Order No.
SAIE-M23-S-RM	1	1169950000

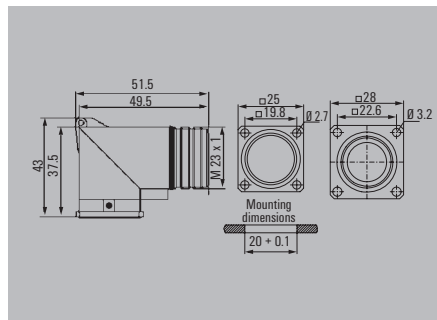
Device connector, single-hole mount



Ordering data

Type	QTY	Order No.
SAIE-M23-S-EM	1	1169970000

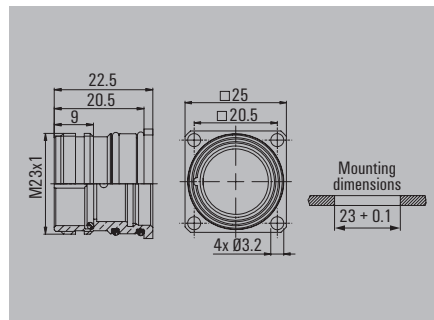
Device connector, angled



Ordering data

Type	QTY	Order No.
SAIE-M23-S-W	1	1169980000

Device connector, rear wall



Ordering data

Type	QTY	Order No.
SAIE-M23-S-HW	1	1169990000

F

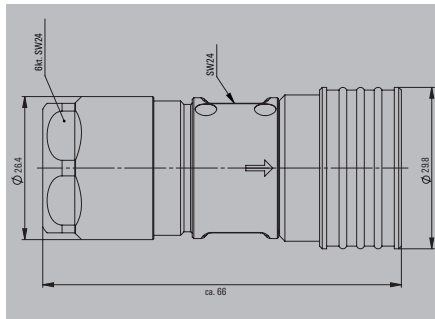
M23 connector for signal transmission

PushPull enclosure

For cable diameters 3 - 17 mm

Cable connector

Cable diameter: 3-7 mm

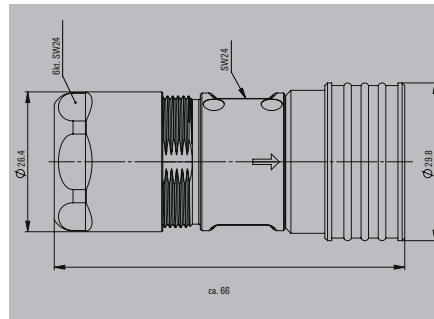


Ordering data

Type	QTY	Order No.
SAI-M23PP-GS-3/7	1	2467720000

Cable connector

Cable diameter: 7-12 mm

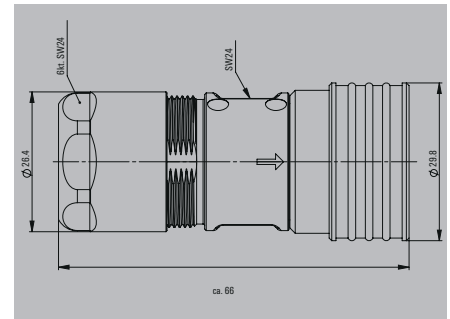


Ordering data

Type	QTY	Order No.
SAI-M23PP-GS-7/12	1	2467730000

Cable connector

Cable diameter: 11-17 mm

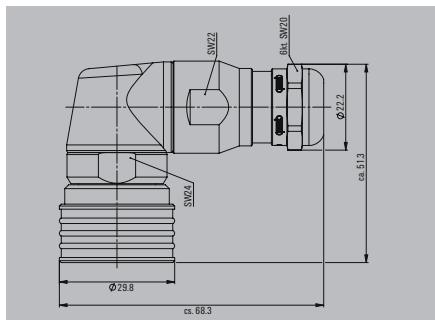


Ordering data

Type	QTY	Order No.
SAI-M23PP-GS-11/17	1	2467740000

Right-angle connector

Cable diameter: 3-7 mm

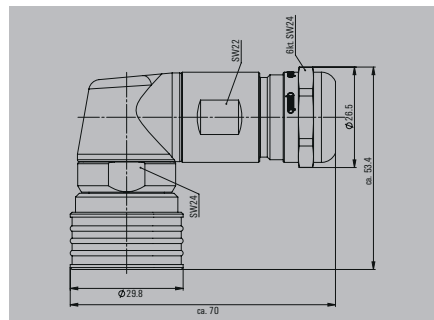


Ordering data

Type	QTY	Order No.
SAI-M23PP-GSW-3/7	1	2467750000

Right-angle connector

Cable diameter: 7-12 mm

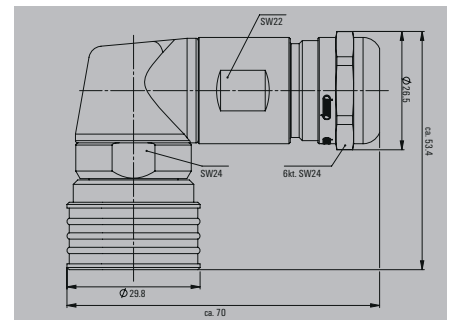


Ordering data

Type	QTY	Order No.
SAI-M23PP-GSW-7/12	1	2467760000

Right-angle connector

Cable diameter: 11-17 mm



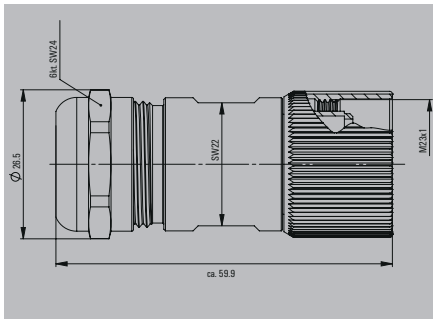
Ordering data

Type	QTY	Order No.
SAI-M23PP-GSW-11/17	1	2467770000

Stainless steel enclosure

For cables with outer diameter: 7 - 12 mm

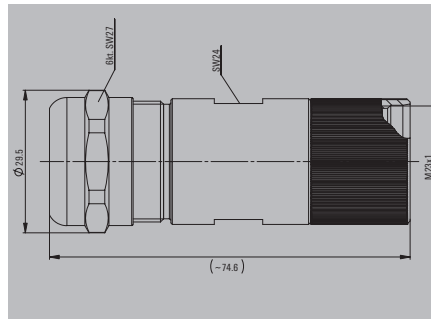
Cable connector for signal transmission



Ordering data

Type	QTY	Order No.
SAI-M23-GS-7/12-VA	1	1452440000

Cable connector for power transmission



Ordering data

Type	QTY	Order No.
SAI-M23-GS-L-7/12-VA	1	1479410000

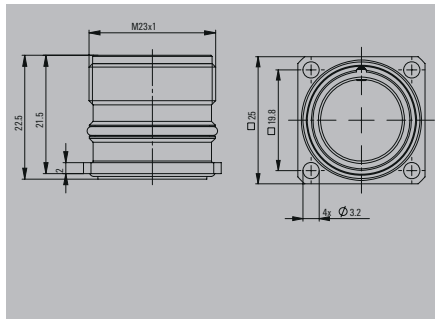


M23 connector for signal transmission

Built-in connectors, stainless steel

Device connector for signal transmission

Front panel

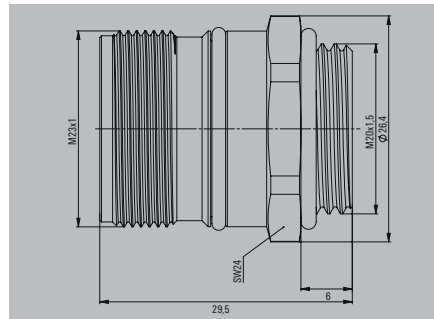


Ordering data

Type	QTY	Order No.
SAIE-M23-S-VW-VA	1	1452450000

Device connector for signal transmission

Single hole

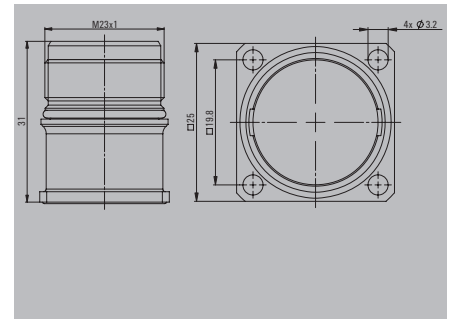


Ordering data

Type	QTY	Order No.
SAIE-M23-S-EM-VA	1	1479400000

Device connector for power transmission

Front panel

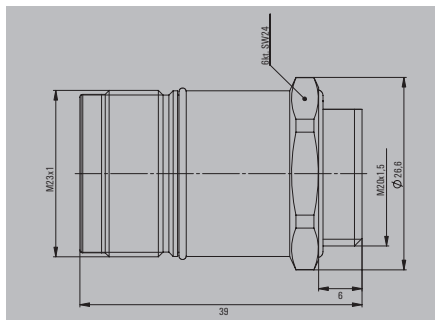


Ordering data

Type	QTY	Order No.
SAIE-M23-L-VW-VA	1	1483880000

Device connector for power transmission

Single hole



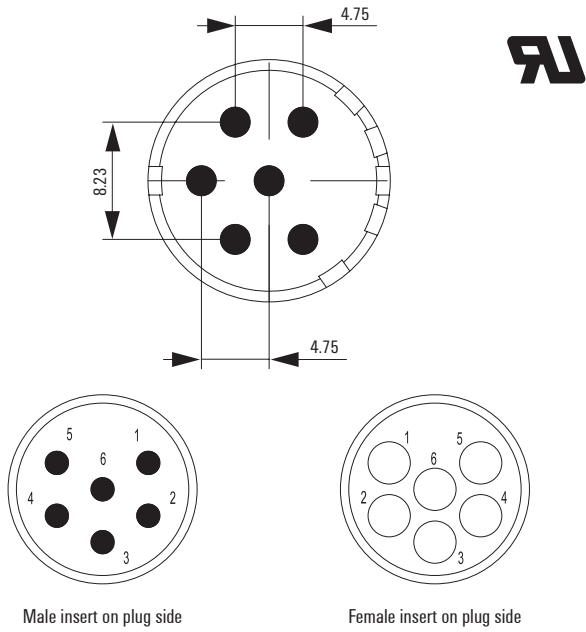
Ordering data

Type	QTY	Order No.
SAIE-M23-L-EM-VA	1	1479420000

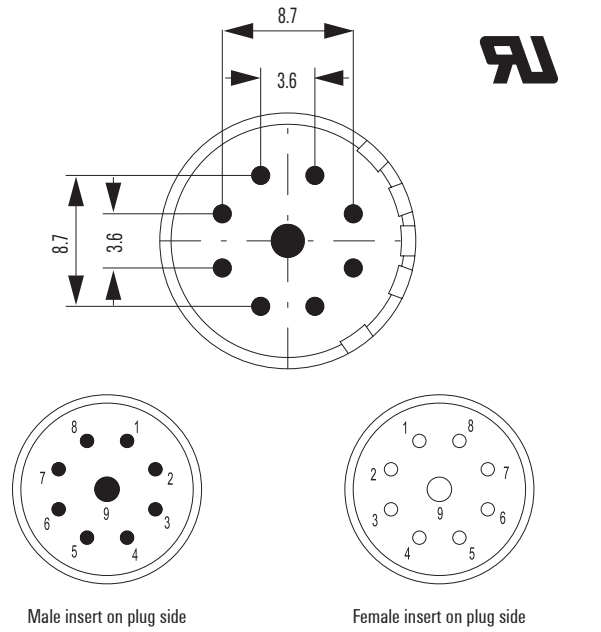
M23 connector for signal transmission

Inserts

6-pole



9-pole



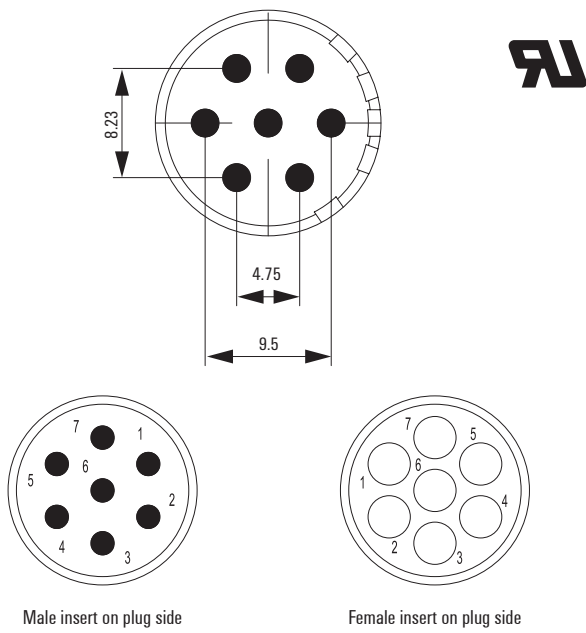
Ordering data

	Type	Qty.	Order No.
Insert 6-pole male	SAI-M23-SE-6	1	1170000000
Insert 6-pole socket	SAI-M23-BE-6	1	1170020000

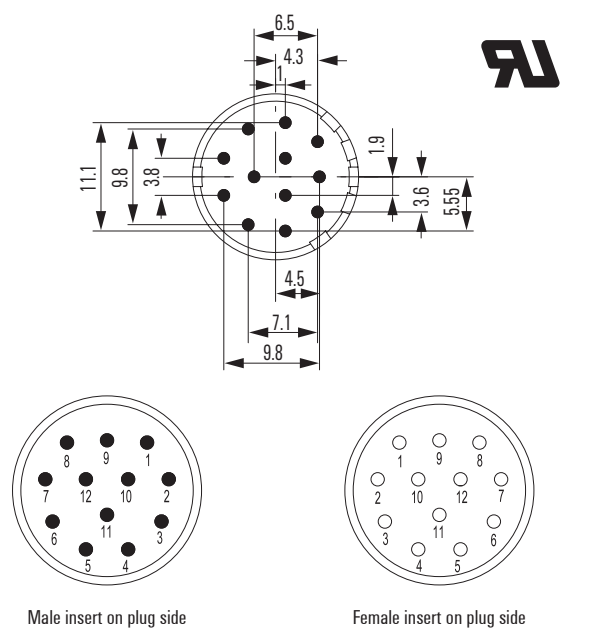
Ordering data

	Type	Qty.	Order No.
Insert 9-pole male	SAI-M23-SE-9	1	1170050000
Insert 9-pole socket	SAI-M23-BE-9	1	1170060000

7-pole



12-pole



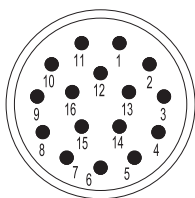
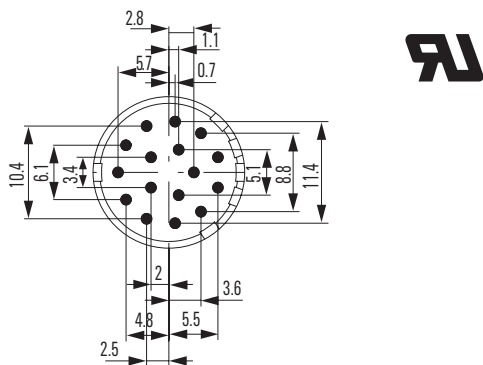
Ordering data

	Type	Qty.	Order No.
Insert 7-pole male	SAI-M23-SE-7	1	1170030000
Insert 7-pole socket	SAI-M23-BE-7	1	1170040000

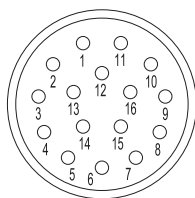
Ordering data

	Type	Qty.	Order No.
Insert 12-pole male	SAI-M23-SE-12	1	1170070000
Insert 12-pole socket	SAI-M23-BE-12	1	1995850000
Reverse flow socket	SAI-M23-BE-12-G	1	1296730000

16-pole



Male insert on plug side

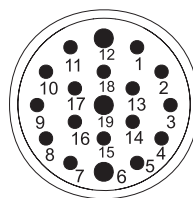
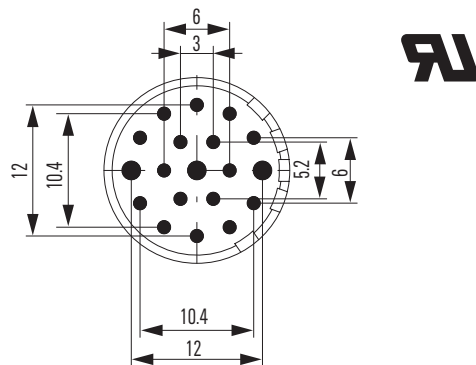


Female insert on plug side

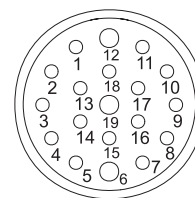
Ordering data

	Type	Qty.	Order No.
Insert 16-pole male	SAI-M23-SE-16	1	1170080000
Insert 16-pole socket	SAI-M23-BE-16	1	1170090000

19-pole



Male insert on plug side

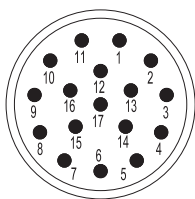
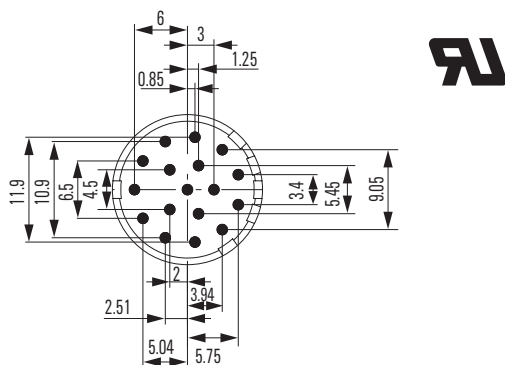


Female insert on plug side

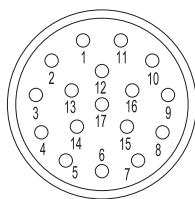
Ordering data

	Type	Qty.	Order No.
Insert 19-pole male	SAI-M23-SE-19	1	1170120000
Insert 19-pole socket	SAI-M23-BE-19	1	1170130000

17-pole



Male insert on plug side



Female insert on plug side

Ordering data

	Type	Qty.	Order No.
Insert 17-pole male	SAI-M23-SE-17	1	1170100000
Insert 17-pole socket	SAI-M23-BE-17	1	1170110000

Contact partitioning

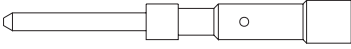
Signal connectors	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
7-pole			7
9-pole	8		1
12-pole	12		
16-pole	16		
17-pole	17		
19-pole	16	3	

M23 connector for signal transmission

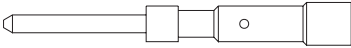
Contacts

Male, 1 mm

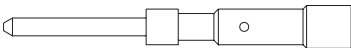
0.08-0.56



0.14-1.00

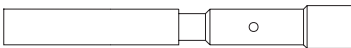


1.00-1.50



Female, 1 mm

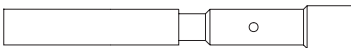
0.08-0.56



0.34-1.00



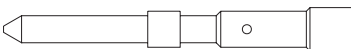
1.00-1.50



with integrated SLS® technology

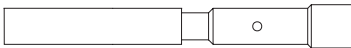
Male, 1.5 mm

0.14-1.00

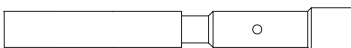


Female, 1.5 mm

0.14-0.56



0.56-1.00



with integrated SLS® technology

Ordering data

Type	Qty.	Order No.
1.0 mm Male (0.08-0.56)	50	1170140000

1.0 mm Male (0.14-1.00)	50	1170150000
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1.0 mm Male (1.00-1.50)	50	1170170000
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Ordering data

Type	Qty.	Order No.
1.0 mm Socket (0.08-0.56)	50	1995860000

1.0 mm Socket (0.34-1.00)	50	1170180000
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1.0 mm Socket (1.00-1.50)	50	1170210000
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Ordering data

Type	Qty.	Order No.
1.5 mm Male (0.14-1.00)	50	1170220000

Ordering data

Type	Qty.	Order No.
1.5 mm Socket (0.14-0.56)	50	1170230000

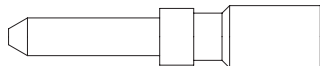
1.5 mm Socket (0.56-1.00)	50	1170240000
---------------------------	----	------------





Male, 2 mm

0.75-2.00



Ordering data

	Type	Qty.	Order No.
2.0 mm Male (0.75-2.00)	SAI-M23-KSC-2-0.75-2.50	50	1170250000

Female, 2 mm

0.75-2.00



Ordering data

	Type	Qty.	Order No.
2.0 mm Socket (0.75-2.00)	SAI-M23-KBC-2-0.75-2.50	50	1170260000

Technical data

Number of positions	6	7	9	12	16	17	19			
Number of contacts	6	7	8	1	12	16	17	16	3	
Contact-Ø	mm	2	2	1	2	1	1	1	1	1.5

M23 inserts with solder contacts

The M23 solder versions are used for PCB mount soldering or to attach to wires.

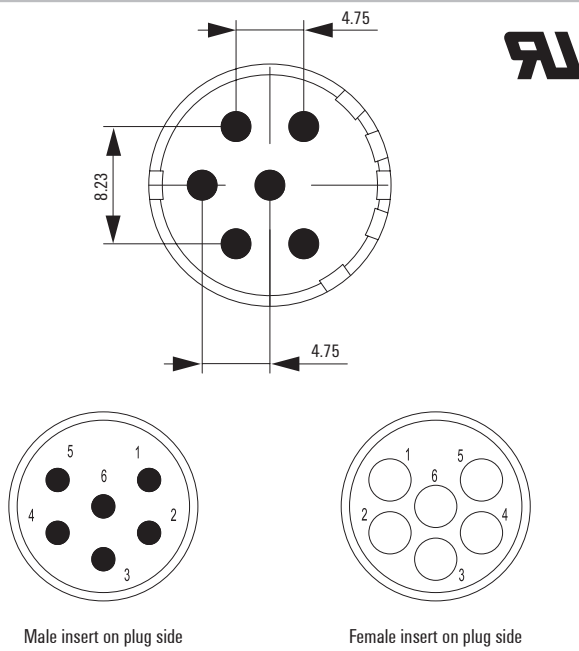
SAI M23 solder inserts with PCB solder pin and solder cups fit the existing M23 housings. This product line is an extension of the existing M23 modular signal connectors. Please also see our M23 Product Information "SAI M23 Connectors". PCB mount solder contacts are available in different lengths to properly fit with the various housing styles offered by Weidmüller. All contacts are gold plated for improved connectivity and increased mating cycles.

F



Inserts with solder contacts

6-pole



Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

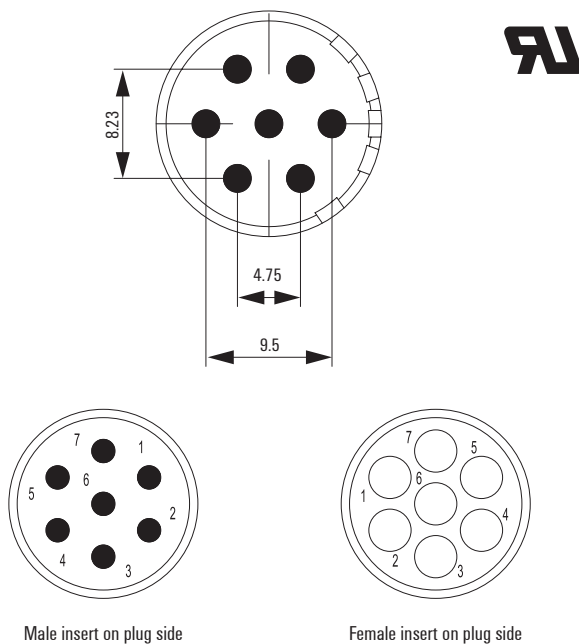
No. of poles	6
Contact number / diameter	6 x 2 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-6-F	1	1224000000
Female, solder cup	SAI-M23-BE-6-F	1	1224010000
Male, solder pin, 3.5 mm	SAI-M23-SE-6-3.5mm	1	1224020000
Female, solder pin 10 mm	SAI-M23-BE-6-10mm	1	1224030000
Male, solder pin 10 mm	SAI-M23-SE-6-10mm	1	1224050000
Male, solder pin, 17 mm	SAI-M23-SE-6-17mm	1	1224060000
Female, solder pin, 17 mm	SAI-M23-BE-6-17mm	1	1224040000

PCB hole-Ø: 1.5 mm

7-pole



Mounting schemes illustrate installation in enclosures
(see the following pages).

Technical data

No. of poles	7
Contact number / diameter	7 x 2 mm

Ordering data

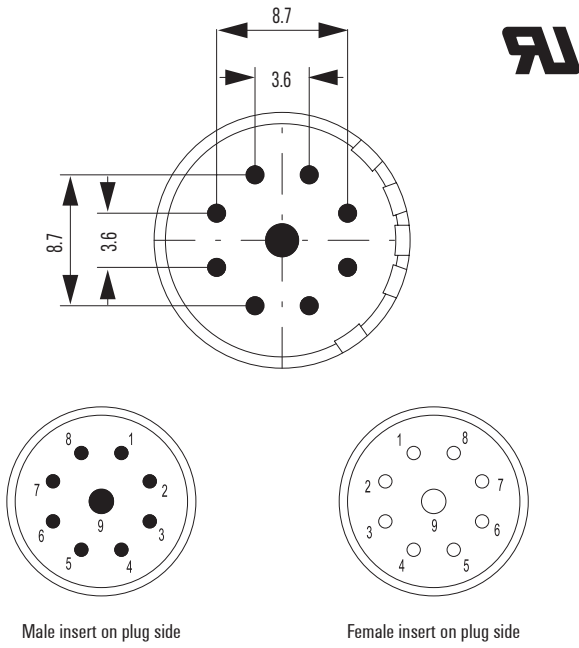
Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-7-F	1	1224070000
Female, solder cup	SAI-M23-BE-7-F	1	1224080000
Male, solder pin, 3.5 mm	SAI-M23-SE-7-3.5mm	1	1224090000
Female, solder pin 10 mm	SAI-M23-BE-7-10mm	1	1224100000
Male, solder pin 10 mm	SAI-M23-SE-7-10mm	1	1224120000
Male, solder pin, 17 mm	SAI-M23-SE-7-17mm	1	1224130000
Female, solder pin, 17 mm	SAI-M23-BE-7-17mm	1	1224110000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

M23 connector for signal transmission

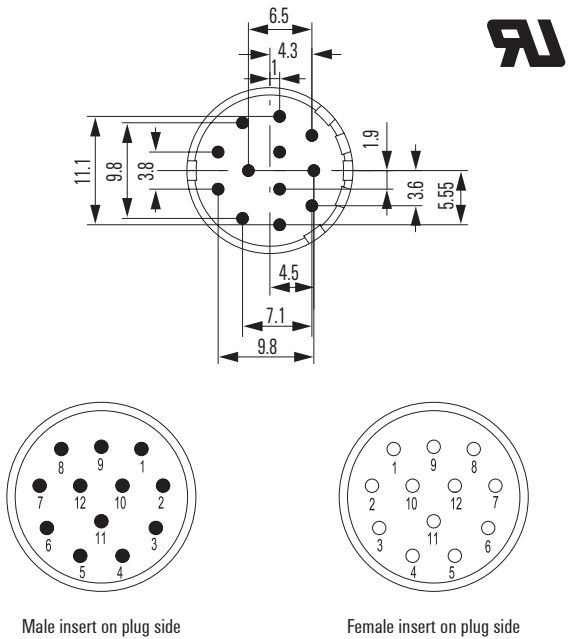
Inserts with solder contacts

9-pole



Mounting schemes illustrate installation in enclosures (see the following pages).

12-pole



Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

No. of poles	9
Contact number / diameter	8 x 1 mm + 1 x 2 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-9-F	1	1224490000
Female, solder cup	SAI-M23-BE-9-F	1	1224500000
Male, solder pin, 3.5 mm	SAI-M23-SE-9-3.5mm	1	1224510000
Male, solder pin 10 mm	SAI-M23-SE-9-10mm	1	1224540000
Female, solder pin 10 mm	SAI-M23-BE-9-10mm	1	1224520000
Male, solder pin, 17 mm	SAI-M23-SE-9-17mm	1	1224550000
Female, solder pin, 17 mm	SAI-M23-BE-9-17mm	1	1224530000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-9-F-G	1	1224730000
Female, solder cup	SAI-M23-BE-9-F-G	1	1224740000
Male, solder pin 10 mm	SAI-M23-SE-9-10mm-G	1	1224770000
Female, solder pin 10 mm	SAI-M23-BE-9-10mm-G	1	1224750000
Male, solder pin, 17 mm	SAI-M23-SE-9-17mm-G	1	1224780000
Female, solder pin, 17 mm	SAI-M23-BE-9-17mm-G	1	1224760000

PCB hole-Ø: 1 mm contact = 0.8 mm (1.2 mm at 17 mm socket)
2 mm contact = 1.5 mm

Technical data

No. of poles	12
Contact number / diameter	12 x 1 mm

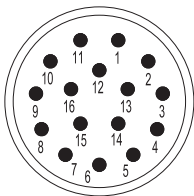
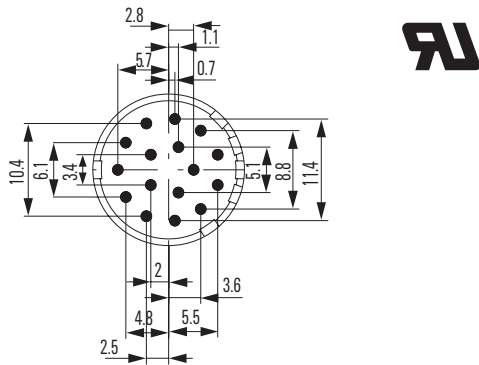
Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-12-F	1	1224140000
Female, solder cup	SAI-M23-BE-12-F	1	1224150000
Male, solder pin, 3.5 mm	SAI-M23-SE-12-3.5mm	1	1224160000
Male, solder cup, 3.5 mm, with PE contact pin 9	SAI-M23-SE-12-F-PE	1	1224180000
Female, solder cup 3.5 mm, with PE contact pin 9	SAI-M23-BE-12-F-PE	1	1224190000
Male, solder pin, 10 mm	SAI-M23-SE-12-10mm	1	1224220000
Female, solder pin, 10 mm	SAI-M23-BE-12-10mm	1	1224170000
Male, solder pin, 17 mm	SAI-M23-SE-12-17mm	1	1224230000
Female, solder pin, 17 mm	SAI-M23-BE-12-17mm	1	1224210000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-12-F-G	1	1224560000
Female, solder cup	SAI-M23-BE-12-F-G	1	1224570000
Male, solder pin, 3.5 mm	SAI-M23-SE-12-3.5mm-G	1	1224580000
Male, solder pin, 10 mm	SAI-M23-SE-12-10mm-G	1	1224630000
Female, solder pin, 10 mm	SAI-M23-BE-12-10mm-G	1	1224590000
Male, solder cup, 10 mm, with PE contact pin 9	SAI-M23-SE-12-10mm-PE-G	1	1224620000
Female, solder cup, 10 mm, with PE contact pin 9	SAI-M23-BE-12-10mm-PE-G	1	1224610000
Male, Solder pin, 17 mm	SAI-M23-SE-12-17mm-G	1	1224640000

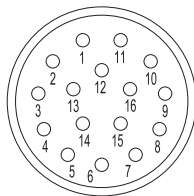
PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

Inserts with solder contacts

16-pole



Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

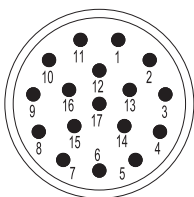
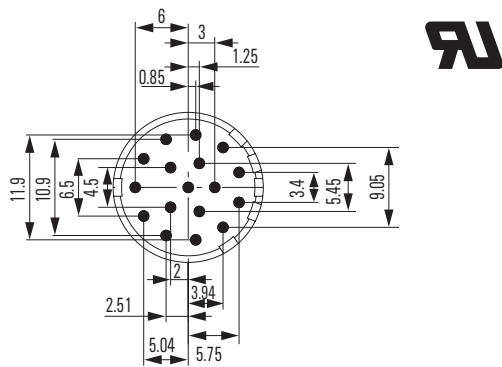
No. of poles	16
Contact number / diameter	6 x 1 mm

Ordering data

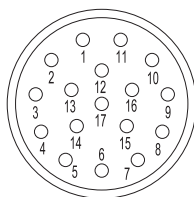
Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-16-F	1	1224240000
Female, solder cup	SAI-M23-BE-16-F	1	1224250000
Male, solder pin, 3.5 mm	SAI-M23-SE-16-3.5mm	1	1224260000
Female, solder pin 10 mm	SAI-M23-BE-16-10mm	1	1224270000
Male, solder pin 10 mm	SAI-M23-SE-16-10mm	1	1224290000
Male, solder pin, 17 mm	SAI-M23-SE-16-17mm	1	1224310000
Female, solder pin, 17 mm	SAI-M23-BE-16-17mm	1	1224280000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

17-pole



Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

No. of poles	17
Contact number / diameter	17 x 1 mm

Ordering data

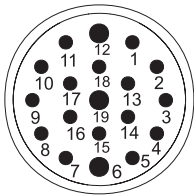
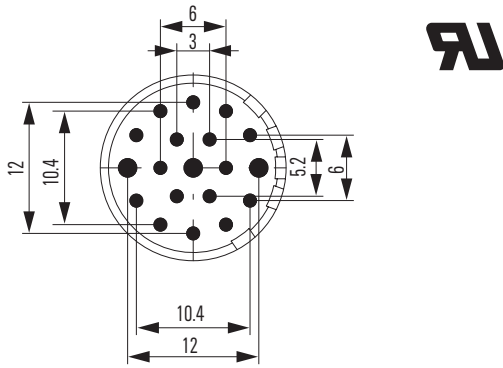
Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-17-F	1	1224320000
Female, solder cup	SAI-M23-BE-17-F	1	1224330000
Male, solder pin, 3.5 mm	SAI-M23-SE-17-3.5mm	1	1224340000
Male, solder pin 10 mm	SAI-M23-SE-17-10mm	1	1224370000
Female, solder pin 10 mm	SAI-M23-BE-17-10mm	1	1224350000
Male, solder pin, 17 mm	SAI-M23-SE-17-17mm	1	1224380000
Female, solder pin, 17 mm	SAI-M23-BE-17-17mm	1	1224360000
Pinout counter clockwise			
Male, solder cup	SAI-M23-SE-17-F-G	1	1224650000
Female, solder cup	SAI-M23-BE-17-F-G	1	1224660000
Male, solder pin, 3.5 mm	SAI-M23-SE-17-3.5mm-G	1	1224670000
Male, solder pin 10 mm	SAI-M23-SE-17-10mm-G	1	1224710000
Female, solder pin 10 mm	SAI-M23-BE-17-10mm-G	1	1224680000
Male, solder pin, 17 mm	SAI-M23-SE-17-17mm-G	1	1224720000
Female, solder pin, 17 mm	SAI-M23-BE-17-17mm-G	1	1224690000

PCB hole-Ø: 0.8 mm (1.2 mm at 17 mm socket)

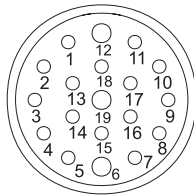
M23 connector for signal transmission

Inserts with solder contacts

19-pole



Male insert on plug side



Female insert on plug side

Mounting schemes illustrate installation in enclosures (see the following pages).

Technical data

No. of poles	19
Contact number / diameter	16 x 1 mm + 3 x 1.5 mm

Ordering data

Pinout clockwise	Type	Qty.	Order No.
Male, solder cup	SAI-M23-SE-19-F	1	1224390000
Female, solder cup	SAI-M23-BE-19-F	1	1224400000
Male, solder pin, 3.5 mm	SAI-M23-SE-19-3.5mm	1	1224410000
Male, solder cup, 3.5 mm, with PE contact pin 12	SAI-M23-SE-19-3.5mmPE12	1	1224460000
Female, solder cup 3.5 mm, with PE contact pin 12	SAI-M23-BE-19-3.5mm-PE	1	1224440000
Male, solder pin, 10 mm	SAI-M23-SE-19-10mm	1	1224470000
Female, solder pin, 10 mm	SAI-M23-BE-19-10mm	1	1224420000
Male, solder cup, 10 mm, with PE contact pin 12	SAI-M23-SE-19-10mm-PE	1	1224430000
Male, solder pin, 17 mm	SAI-M23-SE-19-17mm	1	1224480000
Female, solder pin, 17 mm	SAI-M23-BE-19-17mm	1	1224450000

PCB hole-Ø: 1 mm contact = 0.8 mm (1.2 mm at 17 mm socket)
1.5 mm contact = 1.5 mm

M23 connector for signal transmission

Overview of inserts and housings

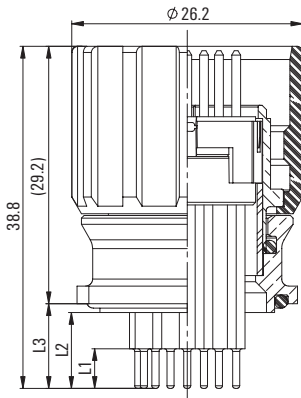
This table shows the different combination possibilities of the inserts and solder pins, with housings.

Solder pin affiliation

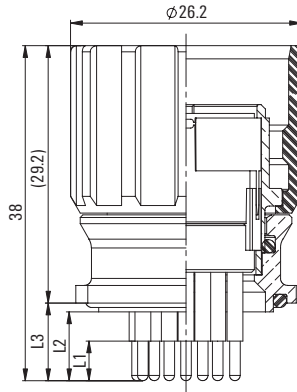
Type	Order No.	Solder pin length		
		3.5 mm	10 mm	17 mm
SAIE-M23-S-VW	1169940000		X	X
SAIE-M23-S-RM	1169950000			X
SAIE-M23-S-EM	1169970000			X
SAIE-M23-S-HW	1169990000		X	X

Device connector with knurled nut

Male insert



Female insert



Male insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	8.6	9.6

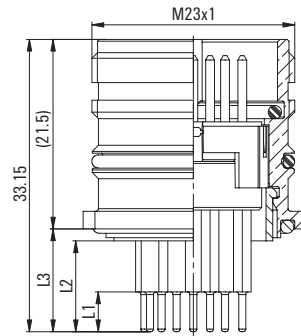
Female insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	7.8	8.8

Ordering data

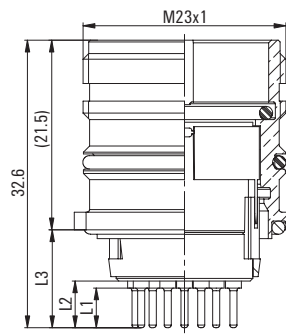
Type	Qty.	Order No.
SAIE-M23-S-RM	1	1169950000

Device connector (front panel)

Male insert



Female insert



Male insert	L1	L2	L3
10 mm	4.5	10.3	11.65
17 mm	4.5	17.3	18.65

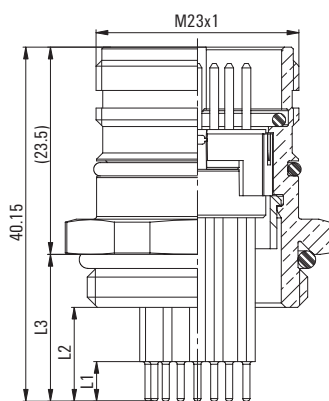
Female insert	L1	L2	L3
10 mm	4.5	5.3	11.1
17 mm	4.5	12.3	18.1

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-VW	1	1169940000

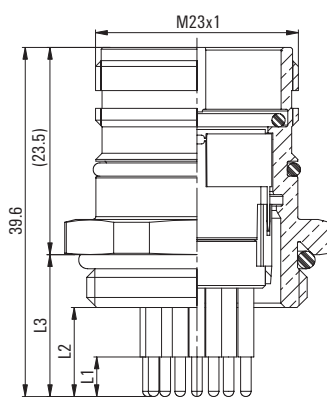
Device connector (single-hole mount)

Male insert



Male insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	10.65	16.65

Female insert



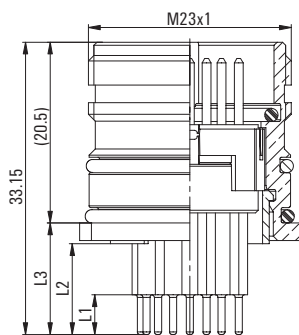
Female insert	L1	L2	L3
10 mm	-	-	-
17 mm	4.5	10.1	16.1

Ordering data

Type	Qty.	Order No.
SAIE-M23-S-EM	1	1169970000

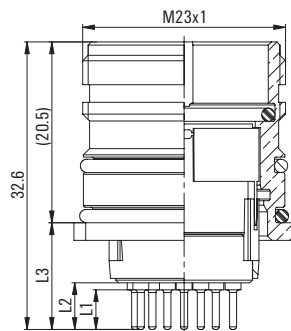
Device connector (back panel)

Male insert



Male insert	L1	L2	L3
10 mm	4.5	10.3	12.65
17 mm	4.5	17.3	19.65

Female insert



Female insert	L1	L2	L3
10 mm	4.5	5.3	12.1
17 mm	4.5	12.3	19.1

Ordering data

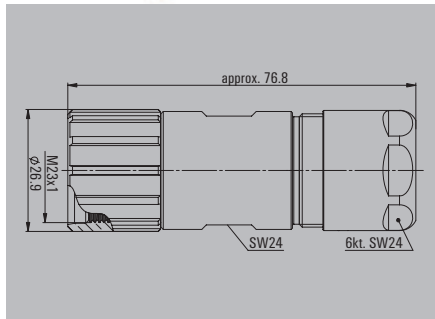
Type	Qty.	Order No.
SAIE-M23-S-HW	1	1169990000

M23 connector for power transmission

Housing

For cables with outer diameter: 7 - 12 mm

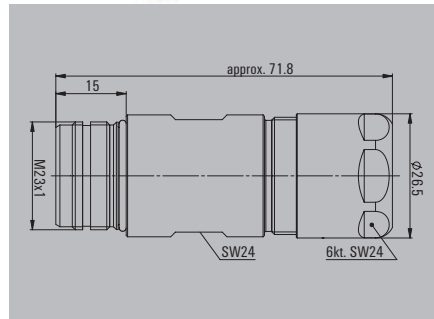
Cable plug-in connector



Ordering data

Type	QTY	Order No.
SAI-M23-GS-L-7/12	1	1995800000

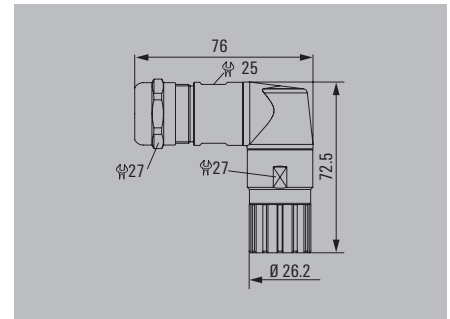
Coupling plug-in connector



Ordering data

Type	QTY	Order No.
SAI-M23-KS-L-7/12	1	1170270000

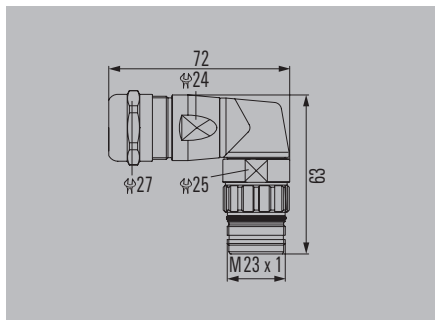
Angle plug-in connector



Ordering data

Type	QTY	Order No.
SAI-M23-GSW-L-7/12	1	1170280000

Angle plug-in connector coupling



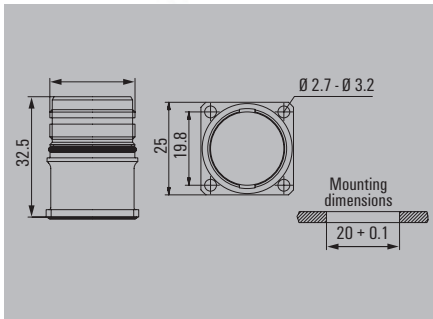
Ordering data

Type	QTY	Order No.
SAI-M23-KSW-L-7/12	1	1170290000

Built-in connector

With 3.2 mm fixing holes

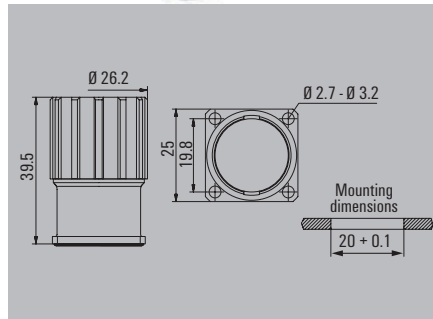
Device connector (front wall)



Ordering data

Type	QTY	Order No.
SAIE-M23-L-VW	1	1170300000

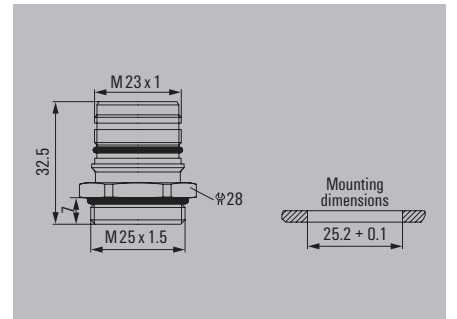
Device connector with knurled nut



Ordering data

Type	QTY	Order No.
SAIE-M23-L-RM	1	1170310000

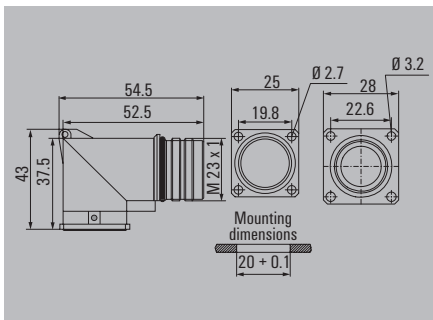
Device connector, single-hole mount



Ordering data

Type	QTY	Order No.
SAIE-M23-L-EM	1	1170320000

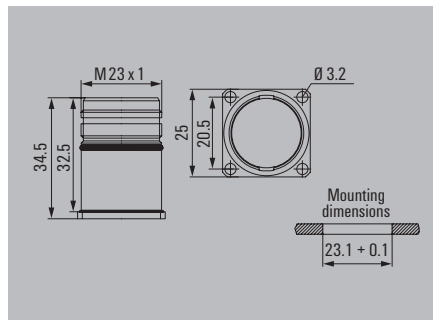
Device connector, angled



Ordering data

Type	QTY	Order No.
SAIE-M23-L-W	1	1170330000

Device connector, rear wall



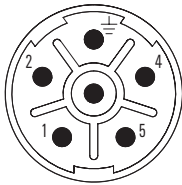
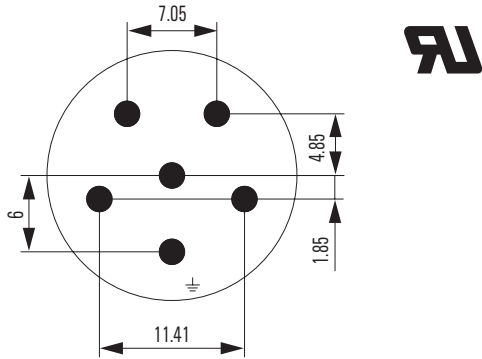
Ordering data

Type	QTY	Order No.
SAIE-M23-L-HW	1	1170340000

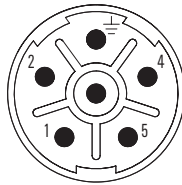
M23 connector for power transmission

Inserts

5 + PE

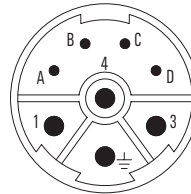
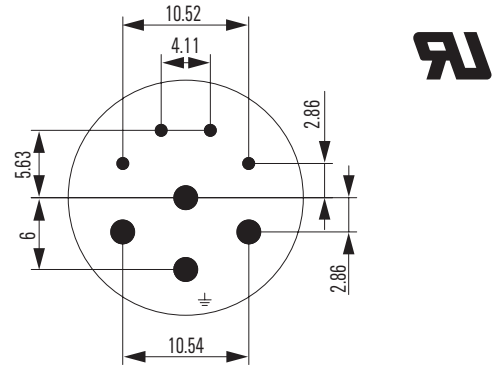


6 times male, 2 mm

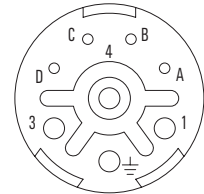


6 times female, 2 mm

4/4



4 times 1-mm male and 4 times 2-mm male



4 times 1-mm female and 4 times 2-mm female

Ordering data

	Type	Qty.	Order No.
6 times male 2 mm	SAH-M23-SE-L-6	1	1170350000
6 times female, 2 mm	SAH-M23-BE-L-6	1	1170370000

Ordering data

	Type	Qty.	Order No.
4 times 1-mm male and 4 times 2-mm male	SAH-M23-SE-L-4/4	1	1170380000
4 times 1-mm female and 4 times 2-mm female	SAH-M23-BE-L-4/4	1	1995810000

Contact partitioning

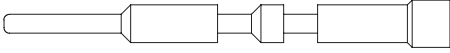
Power connectors			
Type	1 mm contact	1.5 mm contact	2 mm contact
6-pole			6
4+4-pole	4		4

Contacts for signal plugs cannot be used in inserts for power plugs and vice versa.

Contacts

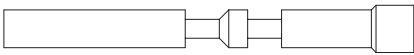
Male, 1 mm

0.25 - 1.00



Female, 1 mm

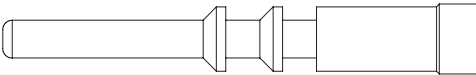
0.25 - 1.00



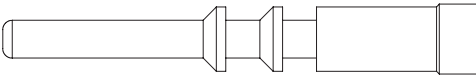
with integrated SLS® technology

Male, 2 mm

0.75 - 2.5

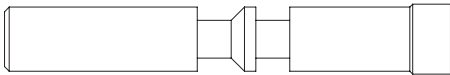


2.5 - 4.00

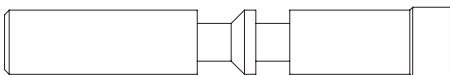


Female, 2 mm

0.75 - 2.5



2.5 - 4.00



Technical data

No. of poles	5 + PE	4/4	
Number of contacts	6	4	4
Contact-Ø	mm	2	2

Ordering data

Type	Qty.	Order No.
1 mm Male (0.25-1.00)	50	1170390000

Ordering data

Type	Qty.	Order No.
1 mm Socket (0.25-1.00)	50	1995830000

Ordering data

Type	Qty.	Order No.
2 mm Male (0.75-2.5)	50	1170400000

2 mm Male (2.5-4.00)	50	1170410000
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Ordering data

Type	Qty.	Order No.
2 mm Socket (0.75-2.5)	50	1995820000

2 mm Socket (2.5-4.00)	50	1170420000
------------------------	----	------------

M23 protective caps

M23 protective caps

M23 protective cap

Brass, external thread
IP67 / IP69K



Ordering data

Type	QTY	Order No.
SAI-M23-SK-M	1	1244790000

M23 protective cap

Brass, external thread with lanyard
IP67 / IP69K



Ordering data

Type	QTY	Order No.
SAI-M23-SK-M-FS	1	1170810000

M23 protective cap

Plastic, external thread
IP20



Ordering data

Type	QTY	Order No.
SAI-M23-SK-M-P	1	1408280000

F

M23 protective cap

Brass, inner thread
IP67 / IP69K



Ordering data

Type	QTY	Order No.
SAI-M23-SK-F	1	1416410000

M23 protective cap

Brass, inner thread with lanyard
IP67 / IP69K



Ordering data

Type	QTY	Order No.
SAI-M23-SK-F-FS	1	1417920000

M23 protective cap

Plastic, inner thread
IP20



Ordering data

Type	QTY	Order No.
SAI-M23-SK-F-P	1	1408270000

M23 protective caps, stainless steel

M23 protective cap

Stainless steel, external thread
IP67 / IP69K



Ordering data

Type	QTY	Order No.
SAI-M23-SK-VA-AG	1	2125220000

M23 protective cap

Stainless steel, external thread with lanyard
IP67 / IP69K



Ordering data

Type	QTY	Order No.
SAI-M23-SK-VA-AG-FS	1	2125950000

M23 protective cap

Brass, inner thread
IP67 / IP69K



Ordering data

Type	QTY	Order No.
SAI-M23-SK-VA-IG	1	2124610000

M23 protective cap

Brass, inner thread with lanyard
IP67 / IP69K

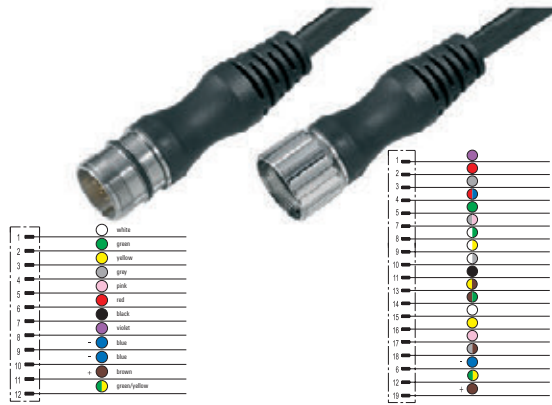
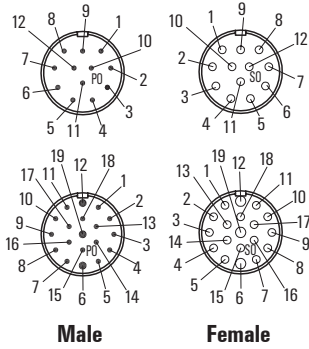


Ordering data

Type	QTY	Order No.
SAI-M23-SK-VA-IG-FS	1	2124860000

Moulded M23 cables

M23 cables



Ordering data

Male, straight	1 m
Male, angled	1 m
Female, straight	1 m
Female, angled	1 m
Note	

Male	12-pole
SAIS-M23-12P-ST-1,0M	1906290100
SAIS-M23-12P-AN-1,0M	1906290100
SAIB-M23-12P-ST-1,0M	1886440100
SAIB-M23-12P-AN-1,0M	1877440100

ST = straight
AN = 90° elbow

Male	19-pole
SAIS-M23-19P-ST-1,0M	1818160100
SAIS-M23-19P-AN-1,0M	1818090100
SAIB-M23-19P-ST-1,0M	1818180100
SAIB-M23-19P-AN-1,0M	1818140100

Other versions on request

Standard cable lengths

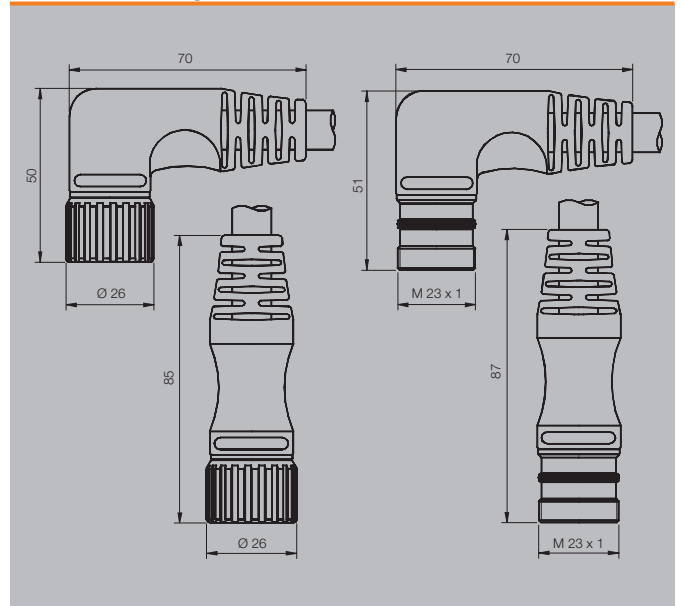
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

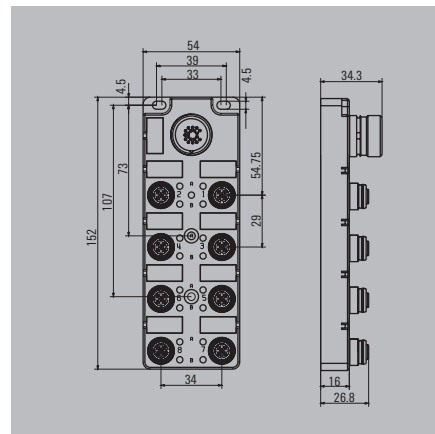
Rated current	8 A
Protection degree	IP67
Wire cross section	12-pole (8x0.34+3x0.75)/19-pole (16x0.34+3x0.75)
Contact surface	Gold-plated
Temperature range of housing	-40...+125 °C
Rated voltage (acc. to VDE standard D110 ISO group C)	150 V

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



With M23 outlet



Ordering data

Complete modules	
	4 plug-in slots
	8 plug-in slots
Note	

SAI-4/8-S

4-pole

Type	QTY	Order No.
SAI-4-S 4P FC	1	1847960000
SAI-8-S 4P FC	1	1847920000
Other versions on request		

SAI-4/8-S

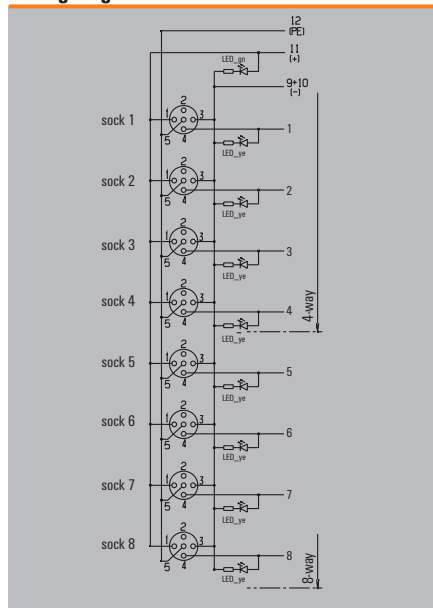
5-pole

Type	QTY	Order No.
SAI-4-S 5P FC	1	1847970000
SAI-8-S 5P FC	1	1848040000
Other versions on request		

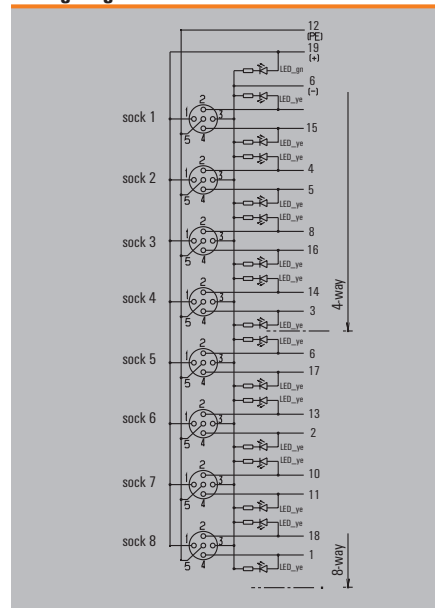
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Wiring diagram

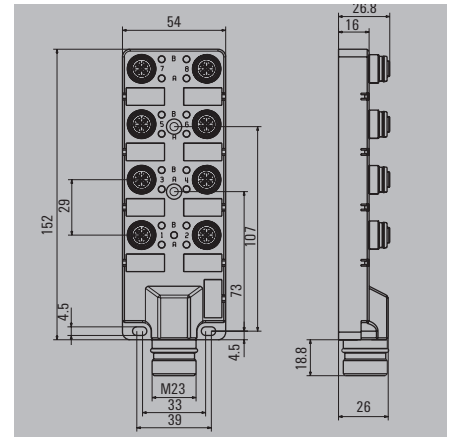


Wiring diagram



SAI distributor M12 with M23

With M23 outlet on face end



Ordering data

Complete modules	
	4 plug-in slots
	8 plug-in slots
Note	

SAI-4/8-SH

4-pole

Type	QTY	Order No.
SAI-4-SH 4P FC	1	1859110000
SAI-8-SH 4P FC	1	1859120000

SAI-4/8-SH

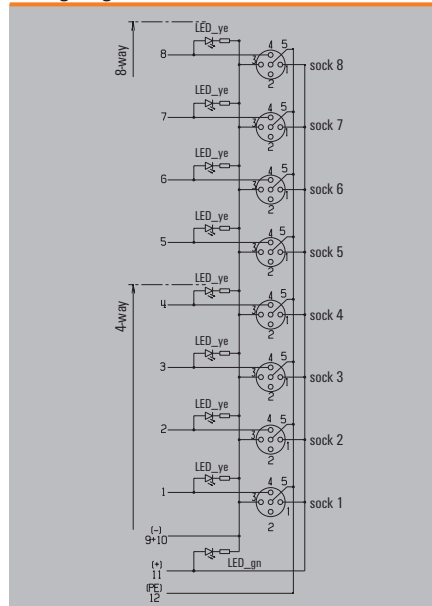
5-pole

Type	QTY	Order No.
SAI-4-SH 5P FC	1	1859130000
SAI-8-SH 5P FC	1	1859140000

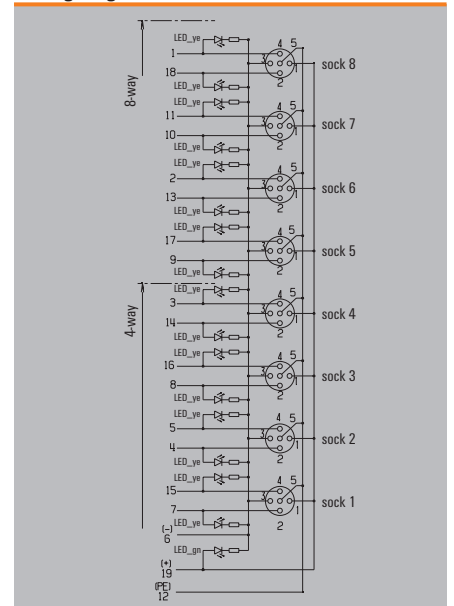
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Wiring diagram

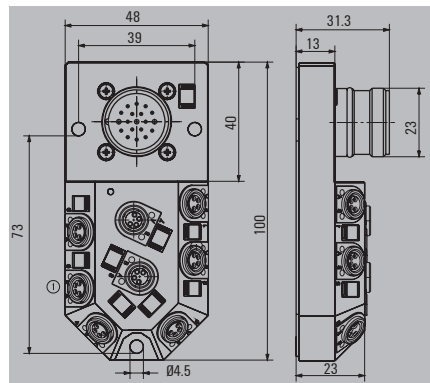


Wiring diagram



With M23 outlet

SAI-4/8-M23



Ordering data

4-pole	
	4 plug-in slots
	8 plug-in slots
Note	

SAI-4/8-M23

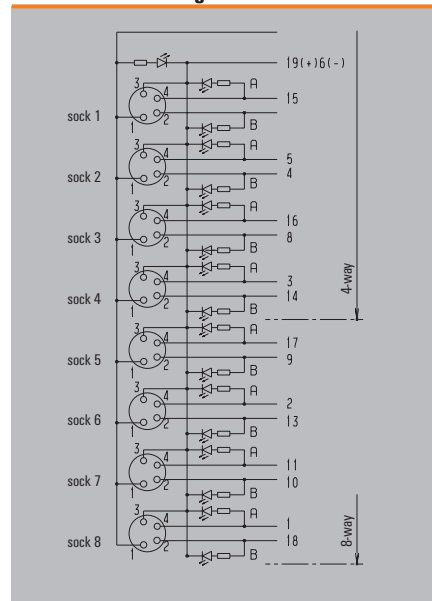
M23

Type	QTY	Order No.
SAI-4-M23 4P M8	1	1784660000
SAI-8-M23 4P M8	1	1784650000
Other versions on request		

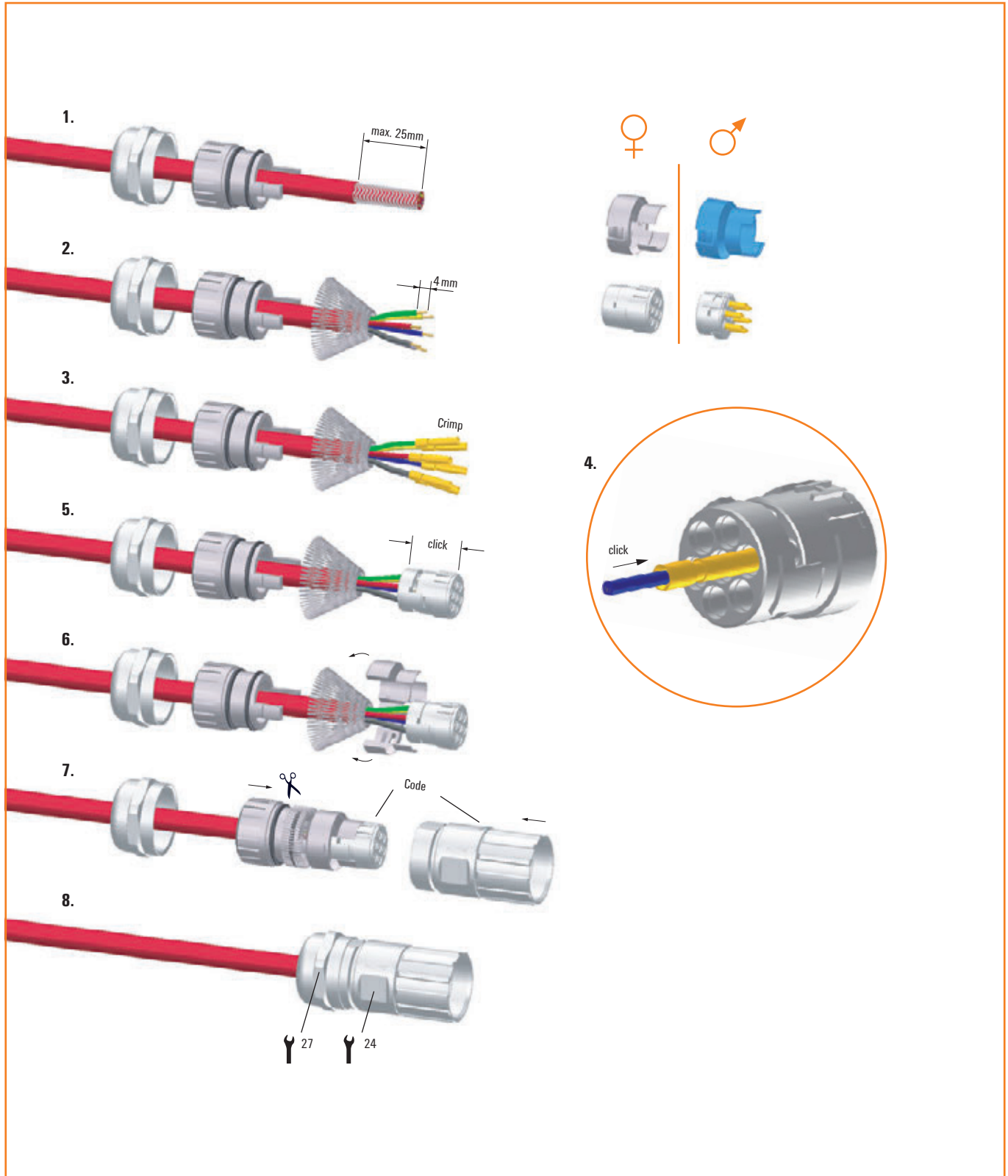
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	2 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

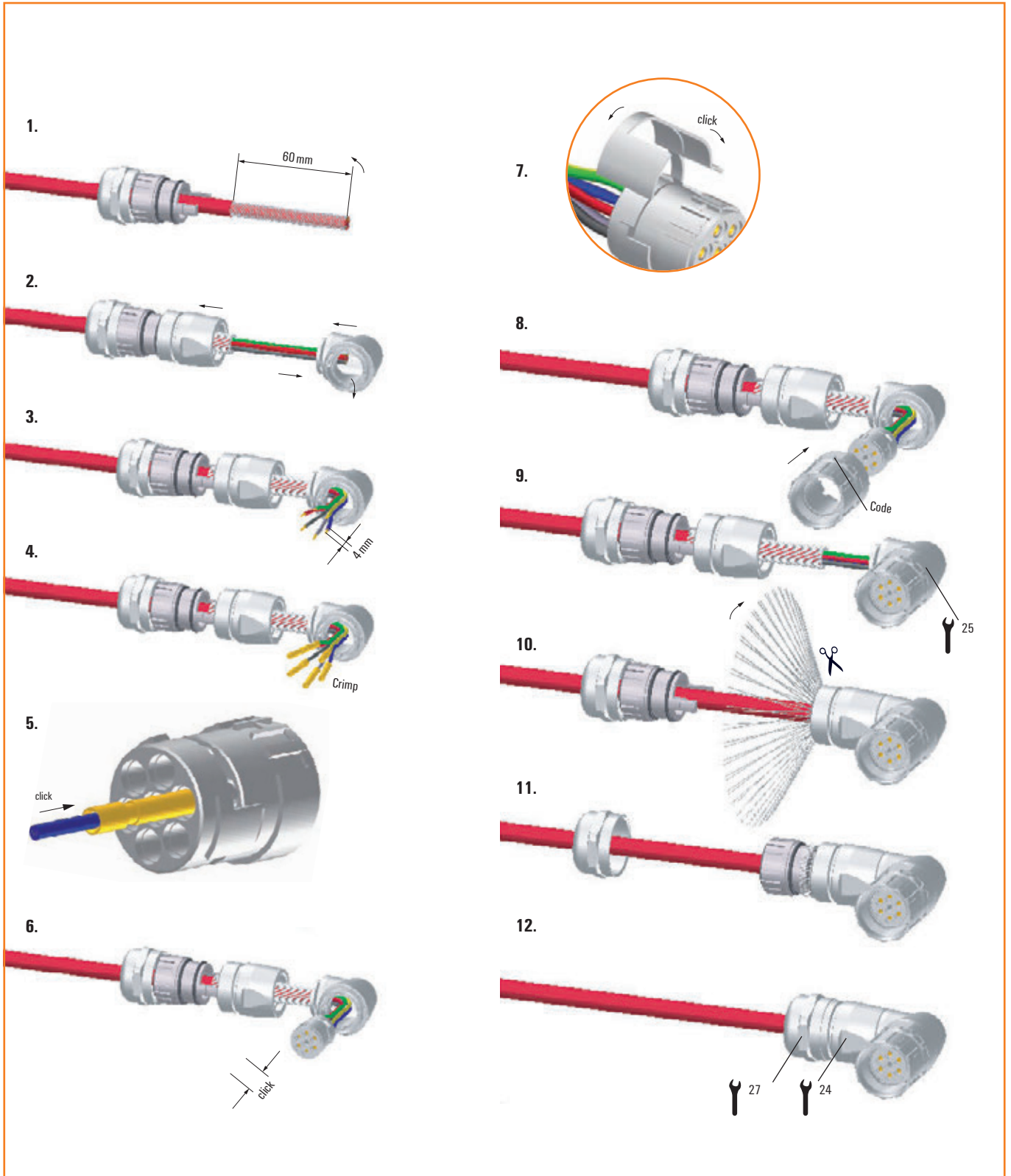
Dimensioned drawing



Cable connector

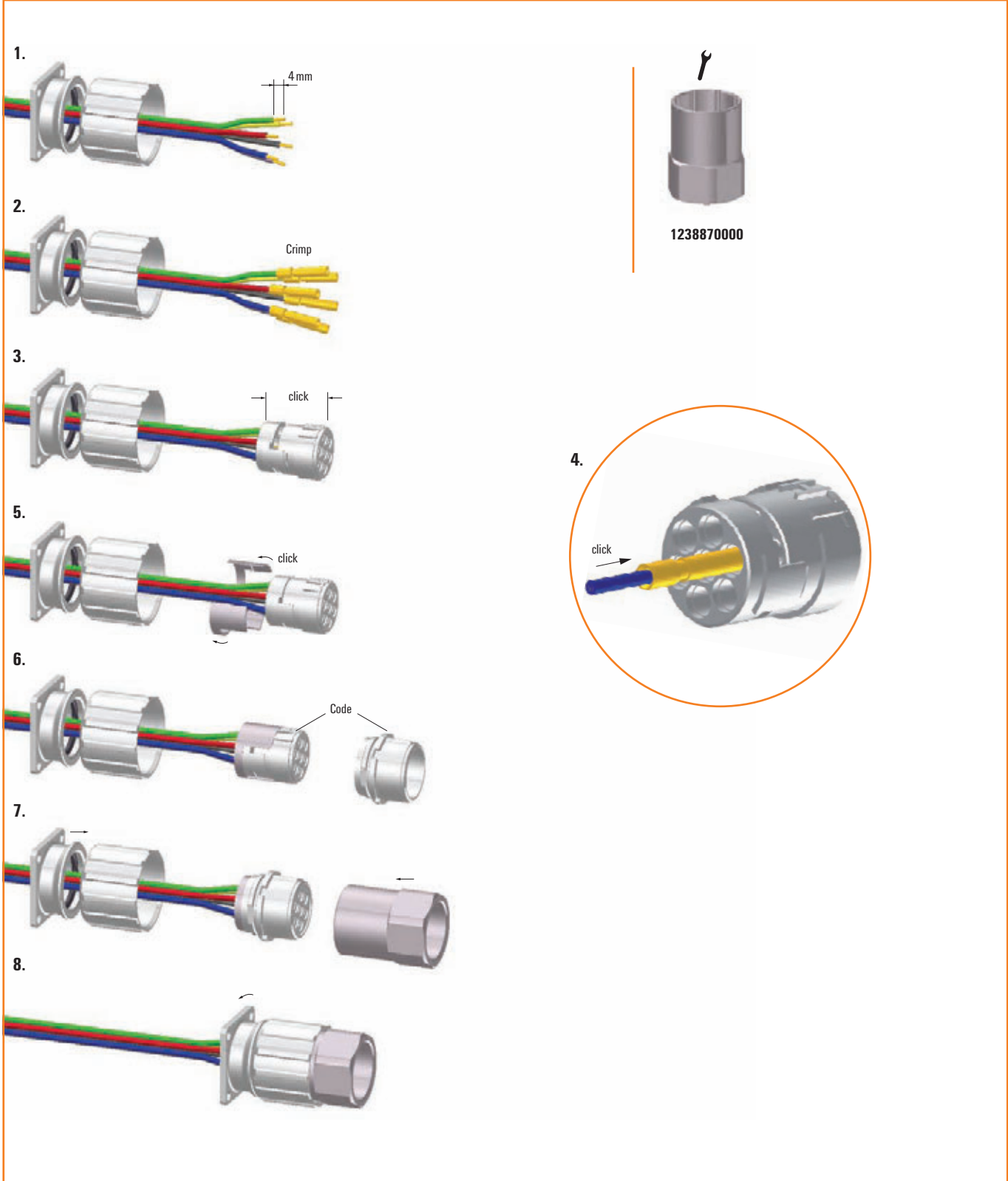


Angled connector

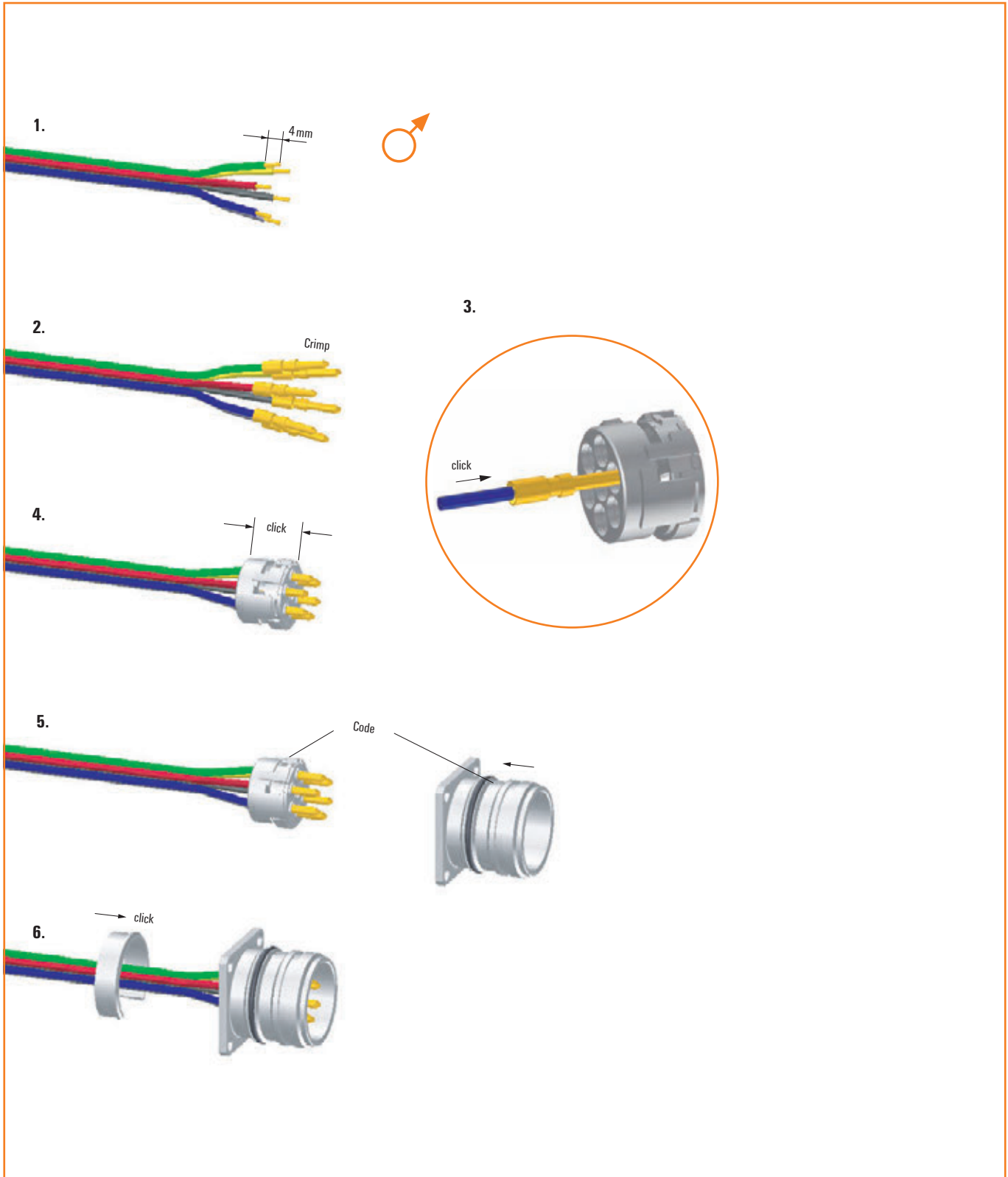


F

Device connector with knurled nut



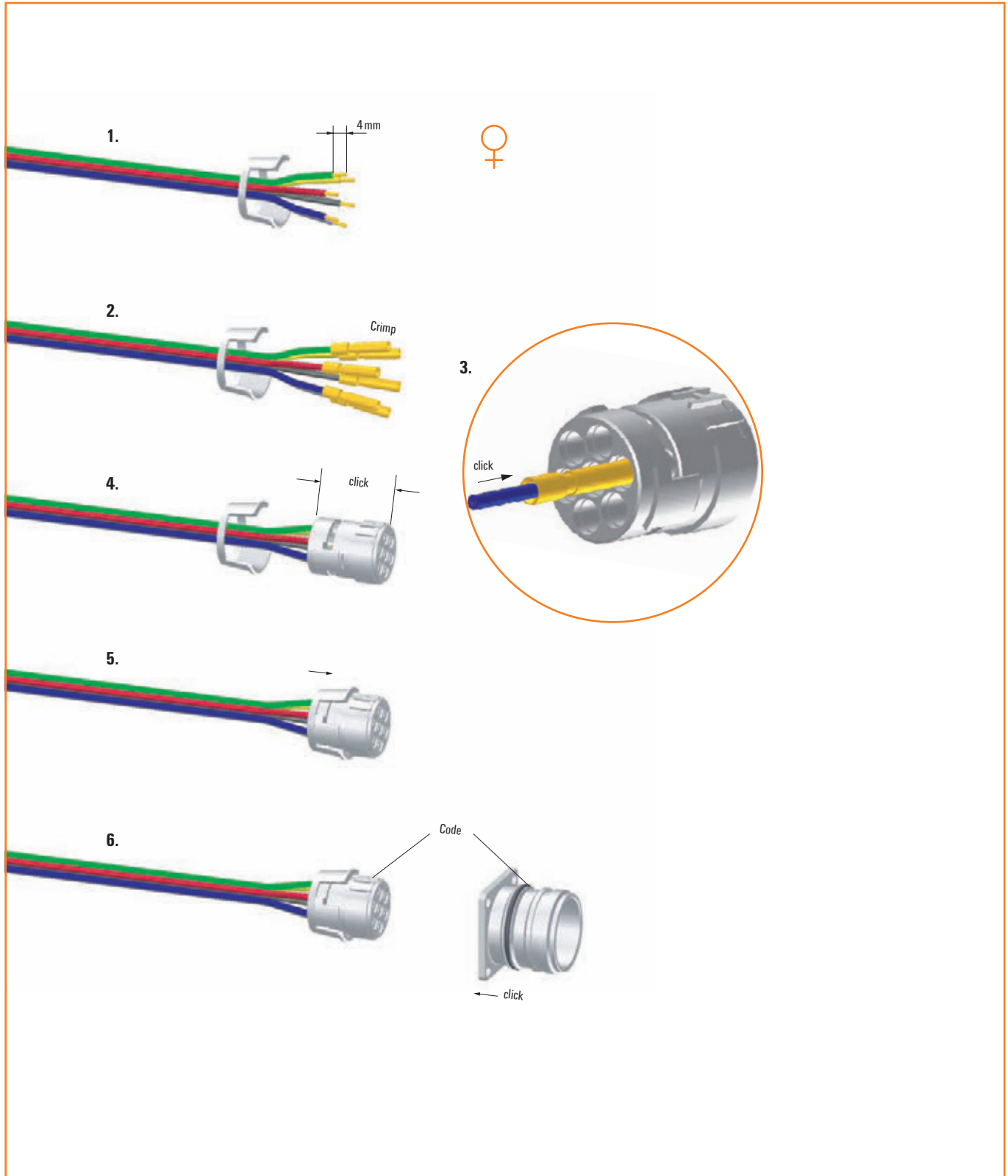
Device connector, male



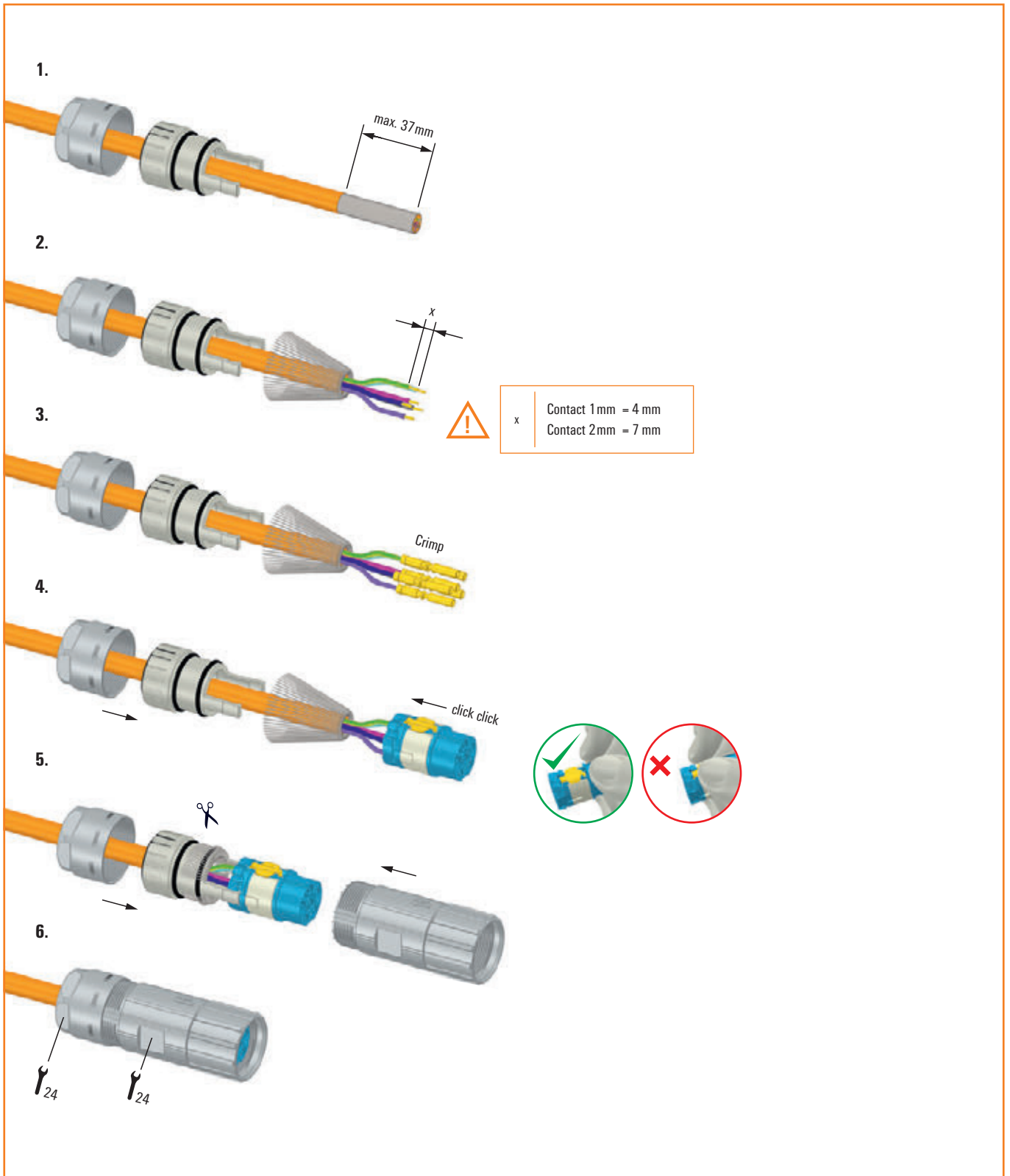
F

Device connector, female

F

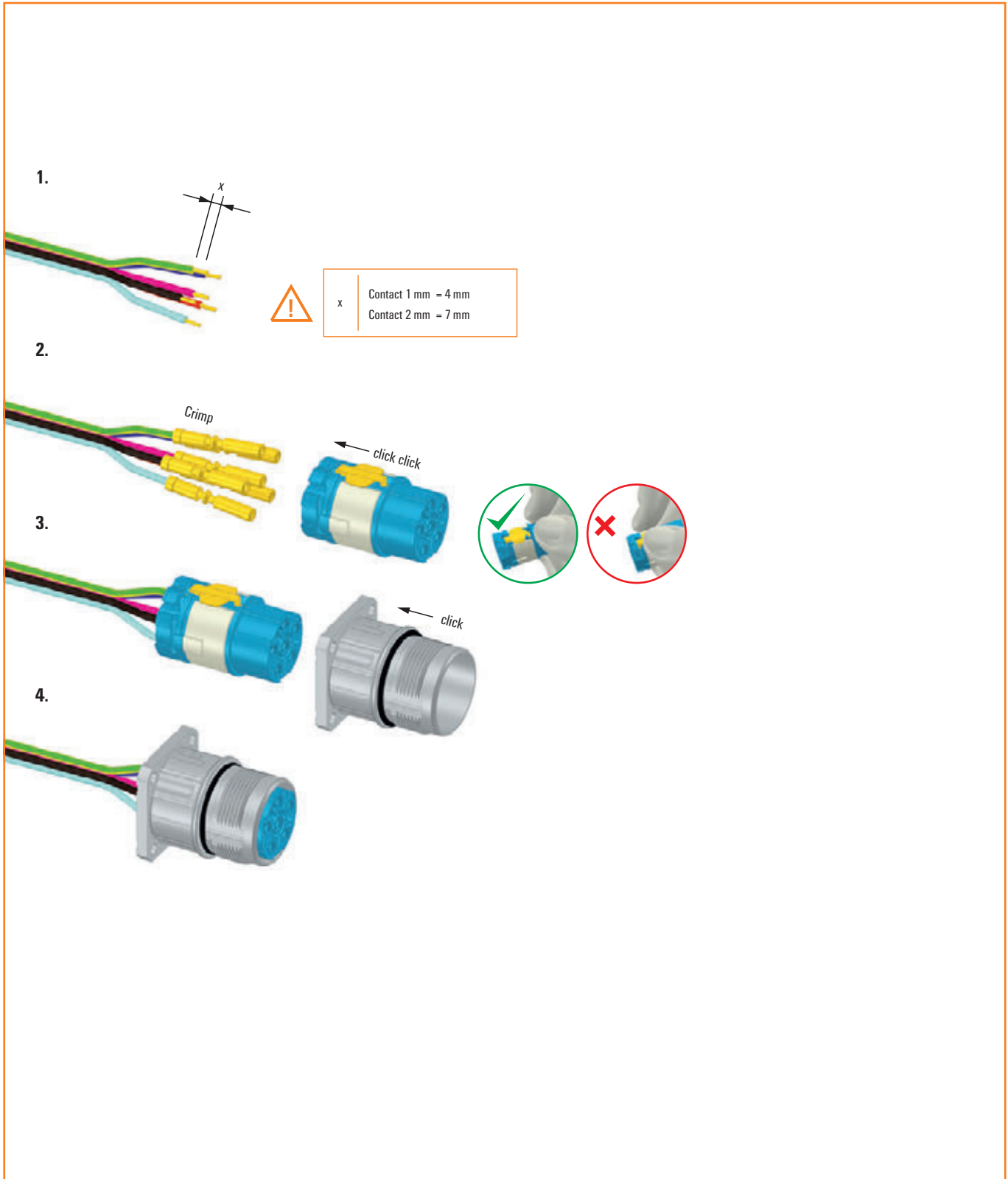


Cable connector

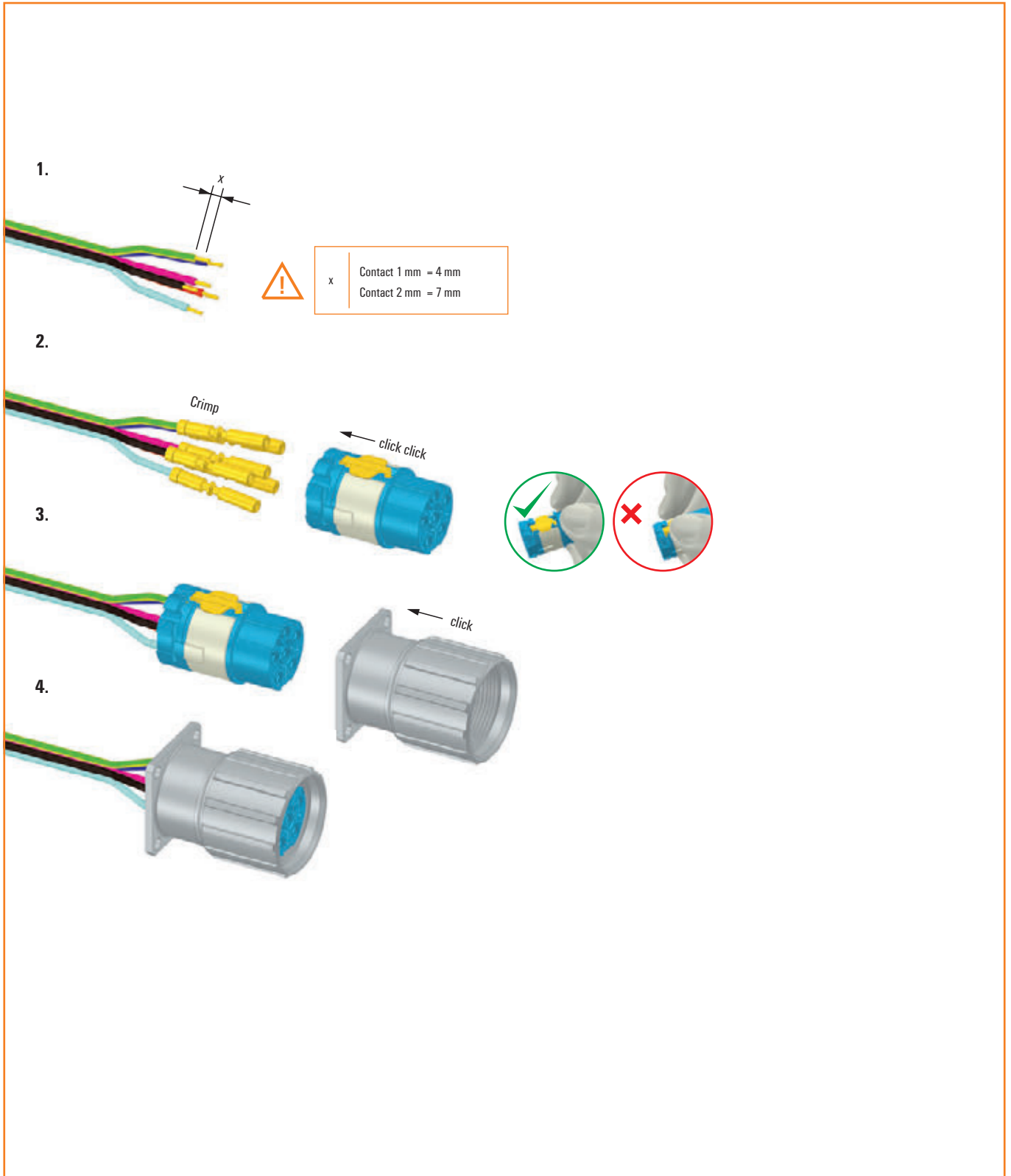


F

Device connector



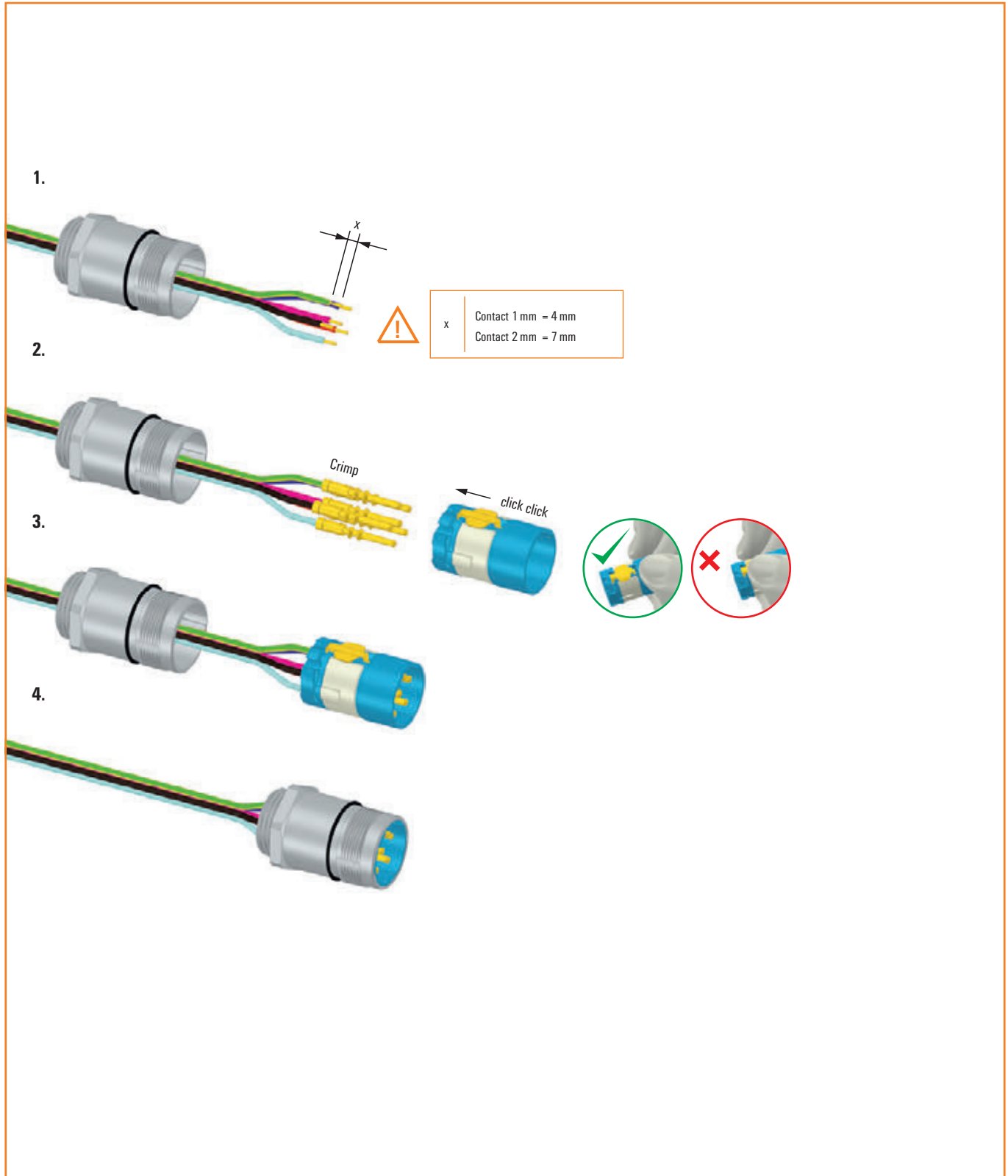
Device connector



F

Device connector, single-hole mount

F



M23 connector

Easy to assemble

- An integrated approach for all plug sizes
- A patented assembly module consisting of terminal insert and insulating body
- Assembly and shield connection combined into one step
- Simple, quick and safe assembly in the housing



Flexibility



Total modularity means flexibility. Male or female inserts can even be used with any of the housing types for the M23 power connectors.



The concise layout of this connector range and the reduced number of individual parts has clear benefits for the user – quicker assembly and easier installation.



The spacer sleeves are colour-coded for the male and female inserts.



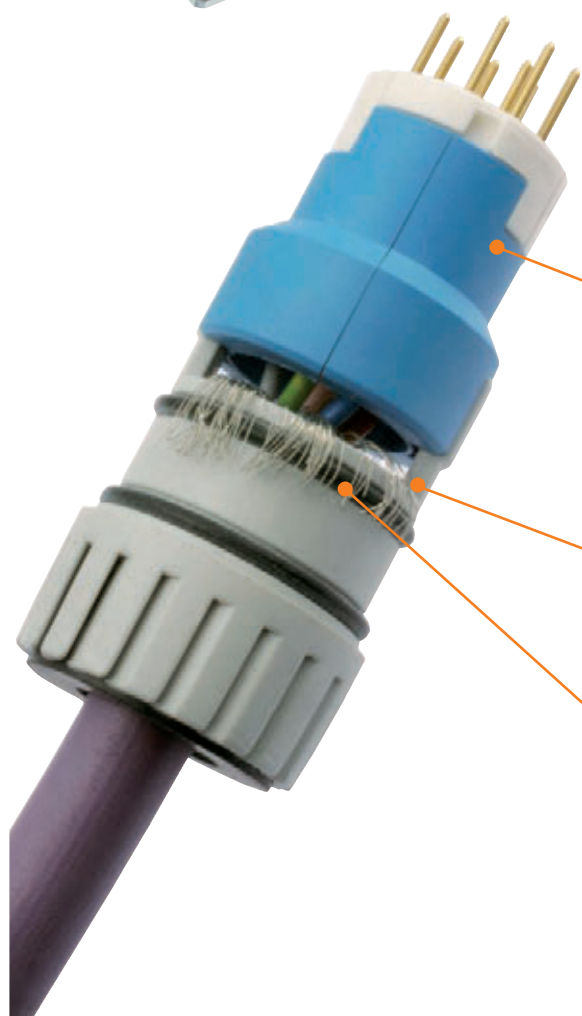
Assembly and shield connection are combined into one step.



The snap-on terminal insert protects the cable outlet from getting twisted.



The variable shield connection ensures secure EMC protection for both light and heavy shielding braid.

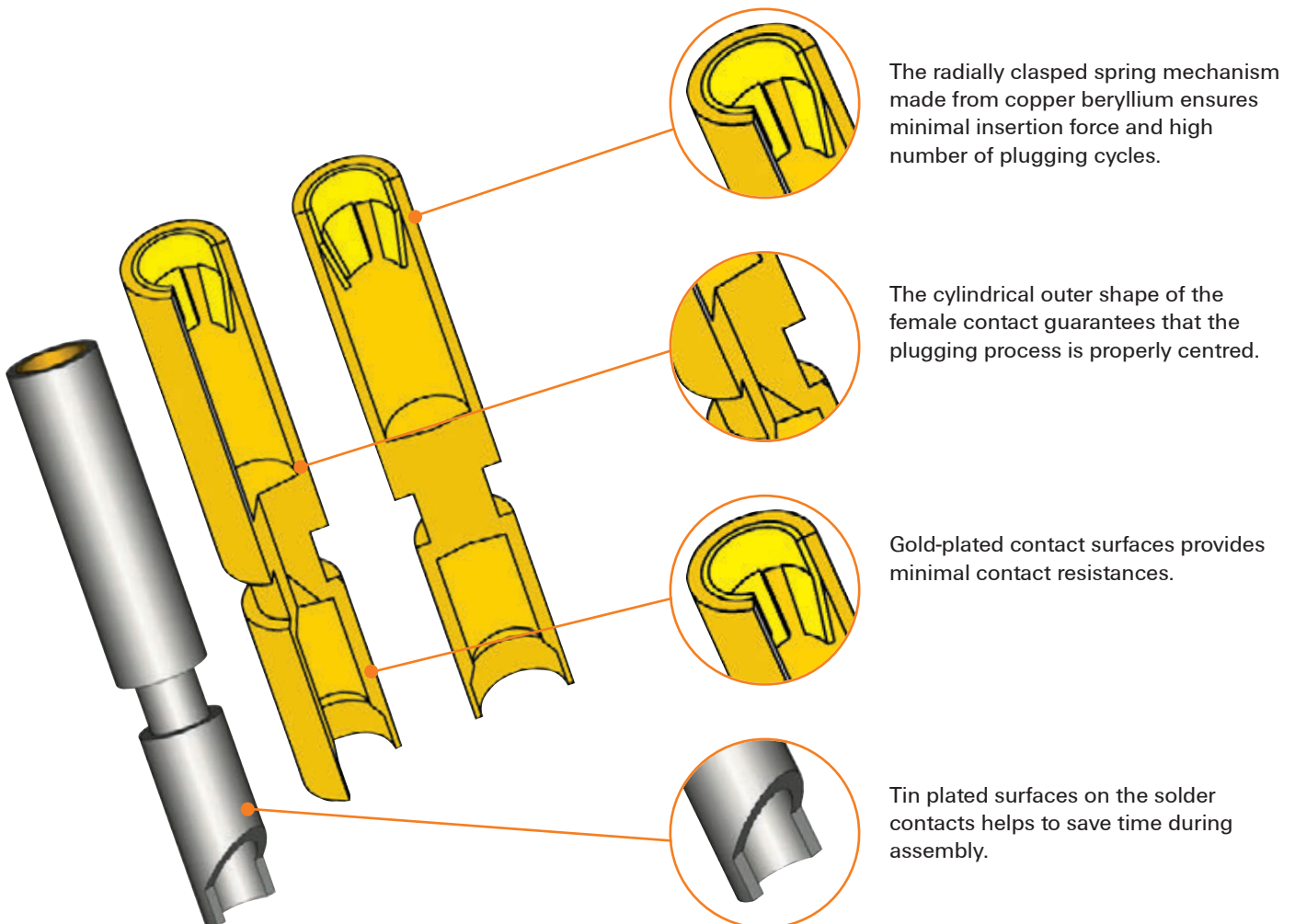


Secure contact with SLS® technology

The new, premium-grade contact – the spring-loaded socket (SLS®) system

- Integrated spring takes the pin contact and clasps it radially
- Outstanding electrical characteristics with the most secure contact
- Quick assembly: solder contacts already tin-plated

F



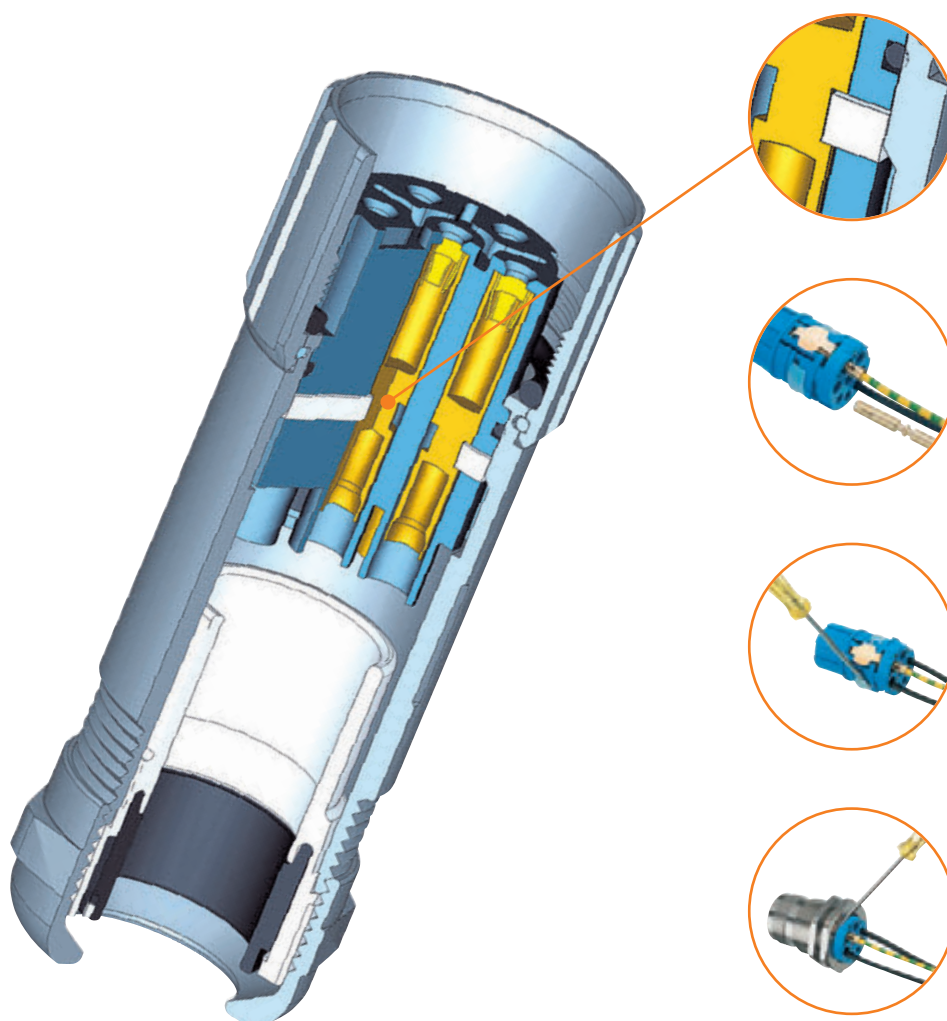
Euro-Lock system® for a secure mount

Euro-Lock system® – the patented interlock system

- The integrated support clip locks the contacts into the insulating body
- Contacts are easy to install and remove
- No special tool is required

High-quality cable gland

- Replaceable male or female inserts in each type of housing
- Integrated strain relief mechanism with patented HSK cable gland
- Internationally certified, with proven and established quality



Secure contact interlock

Quick assembly

Simple removal of contacts

Complete installation and removal without any special tools

M12 POWER (A-, S-, K-, L- and T-coded)

M12 POWER (A-, S-, K-, L- and T-coded)	Introduction	G.2
	Sensor cables	G.4
	Customisable plug-in connectors	G.12
	Customisable panel feed-through	G.16
	Built-in plug	G.18
	M12 distributor	G.20
	M12 power distributor	G.22

M12 POWER (A-, S-, K-, L- and T-coded)

Your peripheral devices should be supplied with greater power. We offer small solutions with lots of power, just for this scenario. Let's connect.

Due to the increasing complexity of automation, the equipment for machinery and systems today needs a greater power supply - in excess of 250 V and 2 A.

Our new M12 plug-in connectors can handle such high power transmissions with no problems. The compact S- and T-coded M12 plug-in connectors are designed for the transmission of up to 630 V AC or 60 V DC and 12 A; K- and L-coded plug-in connectors can be used for 630 V AC and 16 A or 60 V DC and 16 A.

Enjoy the benefits of having the maximum space available for the planning and wiring of your machinery and systems. Let's connect.





Securely coded

S-coded M12 plug-in connectors come with three poles and an advanced PE contact. The T-coded variants have four poles of equal length. Neither system is compatible with other M12 solutions.



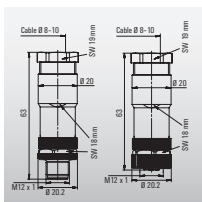
High performance data

With the transmission of 12 A and 630 V AC or 60 V DC, our M12 plug-in connectors bring more power to your IP 6x peripherals.



Simple assembly

The screw connection for the conductor makes connecting on site problem-free.



Small dimensions

The compact size of our M12 plug system helps you set up space-saving field wiring systems.



Connectors
Screw connection



Panel feed-through
Screw connection



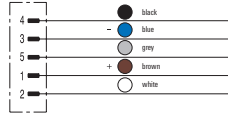
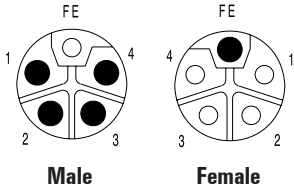
Built in connectors



Distributors

Sensor cables

One end without connector
M12
L-coded



Ordering data

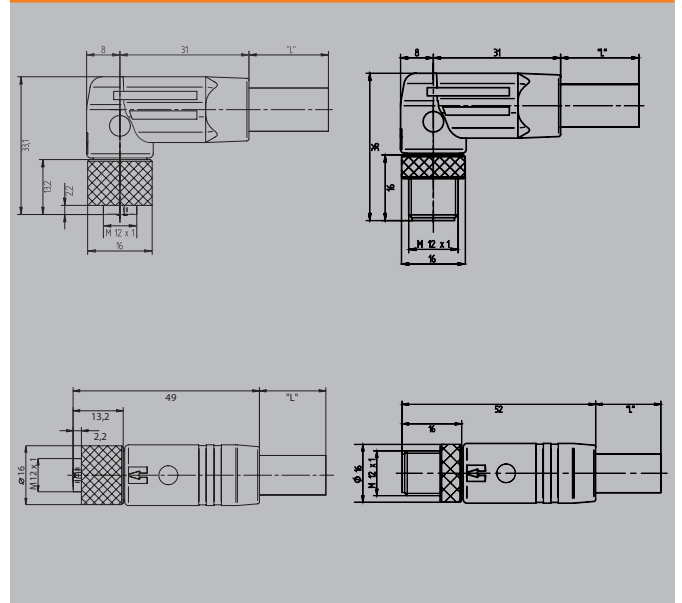
Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12G-L-1.5P	2455220150
SAIL-M12G-L-3.0P	2455220300
SAIL-M12G-L-5.0P	2455220500
SAIL-M12G-L-10P	2455221000
Male, angled	
SAIL-M12W-L-1.5P	2455240150
SAIL-M12W-L-3.0P	2455240300
SAIL-M12W-L-5.0P	2455240500
SAIL-M12W-L-10P	2455241000
Female, straight	
SAIL-M12BG-L-1.5P	2455330150
SAIL-M12BG-L-3.0P	2455330300
SAIL-M12BG-L-5.0P	2455330500
SAIL-M12BG-L-10P	2455331000
Female, angled	
SAIL-M12BW-L-1.5P	2455200150
SAIL-M12BW-L-3.0P	2455200300
SAIL-M12BW-L-5.0P	2455200500
SAIL-M12BW-L-10P	2455201000

Technical data

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	50 V
Approvals	cULus

Dimensioned drawing

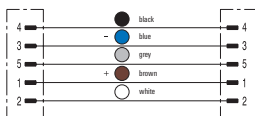
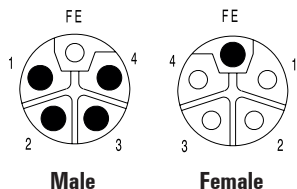




Connecting cables

M12

L-coded



Ordering data

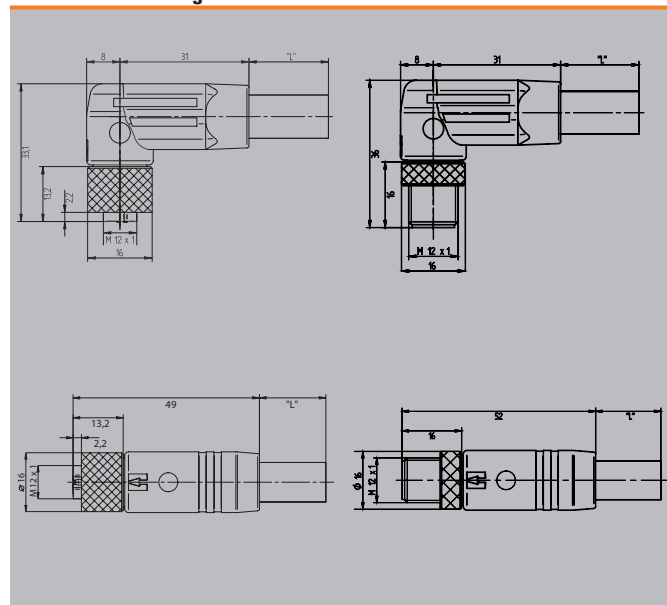
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12GM12G-L-1.5P	2455260150
SAIL-M12GM12G-L-3.0P	2455260300
SAIL-M12GM12G-L-5.0P	2455260500
SAIL-M12GM12G-L-10P	2455261000
SAIL-M12GM12W-L-1.5P	2455280150
SAIL-M12GM12W-L-3.0P	2455280300
SAIL-M12GM12W-L-5.0P	2455280500
SAIL-M12GM12W-L-10P	2455281000
SAIL-M12WM12W-L-1.5P	2455300150
SAIL-M12WM12W-L-3.0P	2455300300
SAIL-M12WM12W-L-5.0P	2455300500
SAIL-M12WM12W-L-10P	2455301000
SAIL-M12WM12G-L-1.5P	2455320150
SAIL-M12WM12G-L-3.0P	2455320300
SAIL-M12WM12G-L-5.0P	2455320500
SAIL-M12WM12G-L-10P	2455321000

Technical data

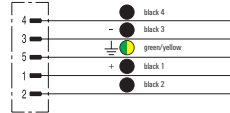
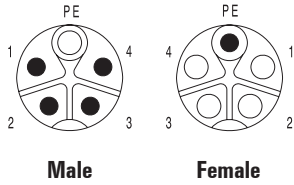
Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	50 V
Approvals	cULus

Dimensioned drawing



Sensor cables

One end without connector
M12
K-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

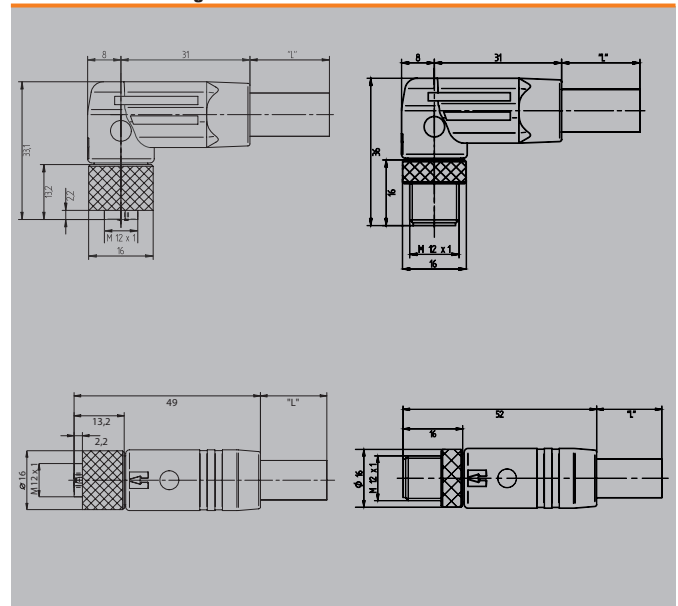
SAIL-M12G-K-1.5P	2455210150
SAIL-M12G-K-3.0P	2455210300
SAIL-M12G-K-5.0P	2455210500
SAIL-M12G-K-10P	2455211000
Male, angled	
SAIL-M12W-K-1.5P	2455230150
SAIL-M12W-K-3.0P	2455230300
SAIL-M12W-K-5.0P	2455230500
SAIL-M12W-K-10P	2455231000
Female, straight	
SAIL-M12BG-K-1.5P	2455150150
SAIL-M12BG-K-3.0P	2455150300
SAIL-M12BG-K-5.0P	2455150500
SAIL-M12BG-K-10P	2455151000
Female, angled	
SAIL-M12BW-K-1.5P	2455190150
SAIL-M12BW-K-3.0P	2455190300
SAIL-M12BW-K-5.0P	2455190500
SAIL-M12BW-K-10P	2455191000

G

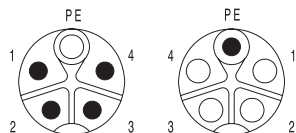
Technical data

Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	600 V
Approvals	cULus

Dimensioned drawing

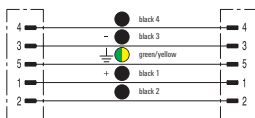


Connecting cables
M12
K-coded



Male

Female



Ordering data

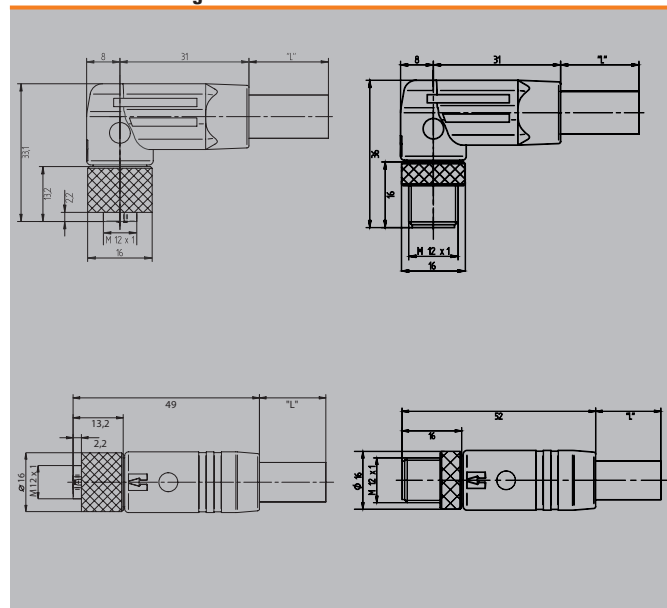
Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

SAIL-M12GM12G-K-1.5P	2455250150
SAIL-M12GM12G-K-3.0P	2455250300
SAIL-M12GM12G-K-5.0P	2455250500
SAIL-M12GM12G-K-10P	2455251000
Male, straight - Female, angled	
SAIL-M12GM12W-K-1.5P	2455270150
SAIL-M12GM12W-K-3.0P	2455270300
SAIL-M12GM12W-K-5.0P	2455270500
SAIL-M12GM12W-K-10P	2455271000
Male, angled - Female, angled	
SAIL-M12WM12W-K-1.5P	2455290150
SAIL-M12WM12W-K-3.0P	2455290300
SAIL-M12WM12W-K-5.0P	2455290500
SAIL-M12WM12W-K-10P	2455291000
Male, angled - female, straight	
SAIL-M12WM12G-K-1.5P	2455310150
SAIL-M12WM12G-K-3.0P	2455310300
SAIL-M12WM12G-K-5.0P	2455310500
SAIL-M12WM12G-K-10P	2455311000

Technical data

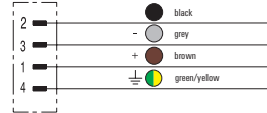
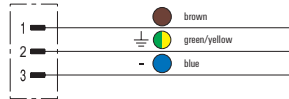
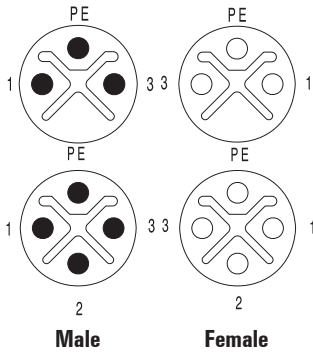
Rated current	16 A
Protection degree	IP65, IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	600 V
Approvals	cULus

Dimensioned drawing



Sensor cables

One end without connector
M12
S-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

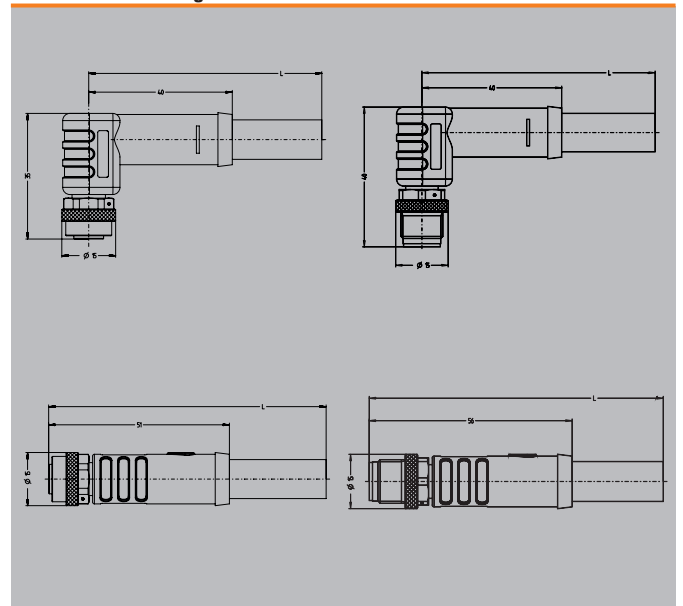
3-pole	
SAIL-M12G-S3-1.5P	2050020150
SAIL-M12G-S3-3.0P	2050020300
SAIL-M12G-S3-5.0P	2050020500
SAIL-M12G-S3-10P	2050021000
3-pole	
SAIL-M12W-S3-1.5P	2050050150
SAIL-M12W-S3-3.0P	2050050300
SAIL-M12W-S3-5.0P	2050050500
SAIL-M12W-S3-10P	2050051000
3-pole	
SAIL-M12BG-S3-1.5P	2049950150
SAIL-M12BG-S3-3.0P	2049950300
SAIL-M12BG-S3-5.0P	2049950500
SAIL-M12BG-S3-10P	2049951000
3-pole	
SAIL-M12BW-S3-1.5P	2050010150
SAIL-M12BW-S3-3.0P	2050010300
SAIL-M12BW-S3-5.0P	2050010500
SAIL-M12BW-S3-10P	2050011000

4-pole	
SAIL-M12G-S-1.5P	2050230150
SAIL-M12G-S-3.0P	2050230300
SAIL-M12G-S-5.0P	2050230500
SAIL-M12G-S-10P	2050231000
4-pole	
SAIL-M12W-S-1.5P	2050260150
SAIL-M12W-S-3.0P	2050260300
SAIL-M12W-S-5.0P	2050260500
SAIL-M12W-S-10P	2050261000
4-pole	
SAIL-M12BG-S-1.5P	2050160150
SAIL-M12BG-S-3.0P	2050160300
SAIL-M12BG-S-5.0P	2050160500
SAIL-M12BG-S-10P	2050161000
4-pole	
SAIL-M12BW-S-1.5P	2050210150
SAIL-M12BW-S-3.0P	2050210300
SAIL-M12BW-S-5.0P	2050210500
SAIL-M12BW-S-10P	2050211000

Technical data

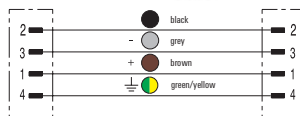
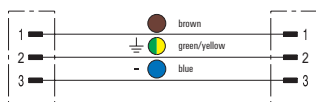
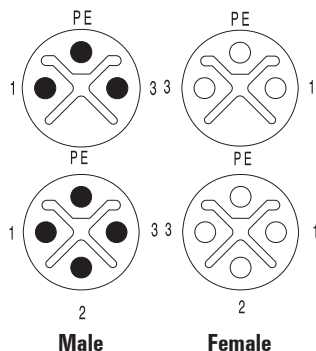
Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	600 V
Approvals	

Dimensioned drawing





Connecting cables
M12
S-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

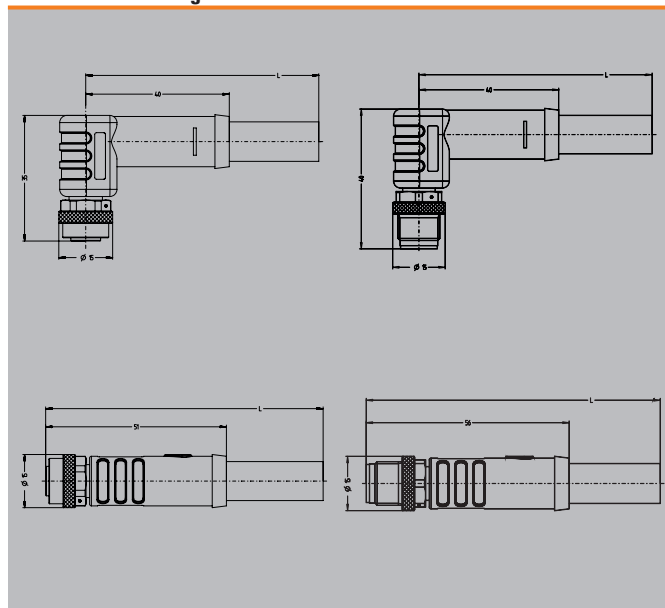
3-pole	
SAIL-M12GM12G-S3-1.5P	2050060150
SAIL-M12GM12G-S3-3.0P	2050060300
SAIL-M12GM12G-S3-5.0P	2050060500
SAIL-M12GM12G-S3-10P	2050061000
SAIL-M12GM12W-S3-1.5P	2050100150
SAIL-M12GM12W-S3-3.0P	2050100300
SAIL-M12GM12W-S3-5.0P	2050100500
SAIL-M12GM12W-S3-10P	2050101000
SAIL-M12WM12W-S3-1.5P	2050150150
SAIL-M12WM12W-S3-3.0P	2050150300
SAIL-M12WM12W-S3-5.0P	2050150500
SAIL-M12WM12W-S3-10P	2050151000
SAIL-M12WM12G-S3-1.5P	2050080150
SAIL-M12WM12G-S3-3.0P	2050080300
SAIL-M12WM12G-S3-5.0P	2050080500
SAIL-M12WM12G-S3-10P	2050081000

4-pole	
SAIL-M12GM12G-S-1.5P	2050270150
SAIL-M12GM12G-S-3.0P	2050270300
SAIL-M12GM12G-S-5.0P	2050270500
SAIL-M12GM12G-S-10P	2050271000
SAIL-M12GM12W-S-1.5P	2050460150
SAIL-M12GM12W-S-3.0P	2050460300
SAIL-M12GM12W-S-5.0P	2050460500
SAIL-M12GM12W-S-10P	2050461000
SAIL-M12WM12W-S-1.5P	2050470150
SAIL-M12WM12W-S-3.0P	2050470300
SAIL-M12WM12W-S-5.0P	2050470500
SAIL-M12WM12W-S-10P	2050471000
SAIL-M12WM12G-S-1.5P	2050350150
SAIL-M12WM12G-S-3.0P	2050350300
SAIL-M12WM12G-S-5.0P	2050350500
SAIL-M12WM12G-S-10P	2050351000

Technical data

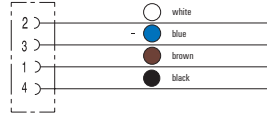
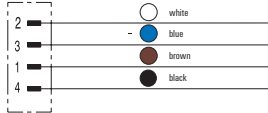
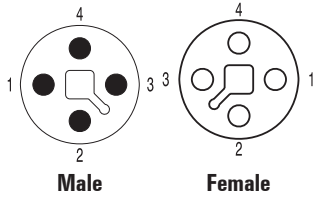
Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	600 V
Approvals	

Dimensioned drawing



Sensor cables

One end without connector
M12
T-coded



Ordering data

Male, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

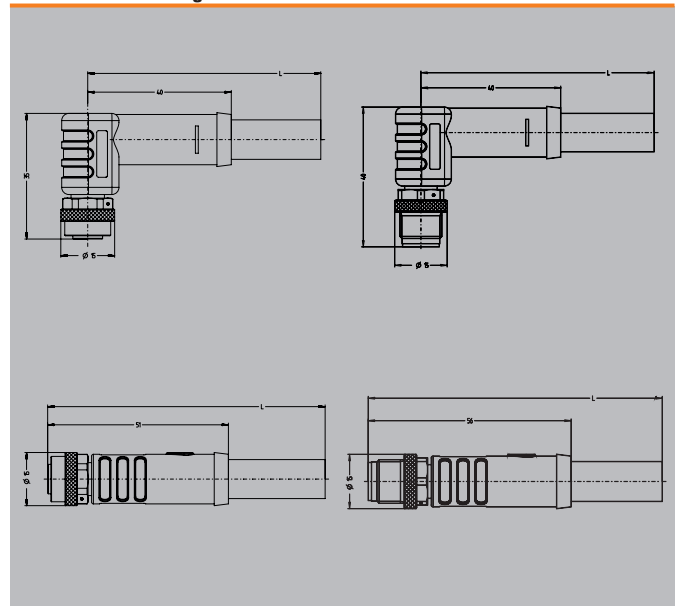
1.5 mm ²	
SAIL-M12G-T-1.5P	2050640150
SAIL-M12G-T-3.0P	2050640300
SAIL-M12G-T-5.0P	2050640500
SAIL-M12G-T-10P	2050641000
SAIL-M12W-T-1.5P	2050650150
SAIL-M12W-T-3.0P	2050650300
SAIL-M12W-T-5.0P	2050650500
SAIL-M12W-T-10P	2050651000
SAIL-M12BG-T-1.5P	2050490150
SAIL-M12BG-T-3.0P	2050490300
SAIL-M12BG-T-5.0P	2050490500
SAIL-M12BG-T-10P	2050491000
SAIL-M12BW-T-1.5P	2050560150
SAIL-M12BW-T-3.0P	2050560300
SAIL-M12BW-T-5.0P	2050560500
SAIL-M12BW-T-10P	2050561000

2.5 mm ²	
SAIL-M12G-T-1.5H	2050700150
SAIL-M12G-T-3.0H	2050700300
SAIL-M12G-T-5.0H	2050700500
SAIL-M12G-T-10H	2050701000
SAIL-M12W-T-1.5H	2050710150
SAIL-M12W-T-3.0H	2050710300
SAIL-M12W-T-5.0H	2050710500
SAIL-M12W-T-10H	2050711000
SAIL-M12BG-T-1.5H	2050680150
SAIL-M12BG-T-3.0H	2050680300
SAIL-M12BG-T-5.0H	2050680500
SAIL-M12BG-T-10H	2050681000
SAIL-M12BW-T-1.5H	2050690150
SAIL-M12BW-T-3.0H	2050690300
SAIL-M12BW-T-5.0H	2050690500
SAIL-M12BW-T-10H	2050691000

Technical data

Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	63 V
Approvals	

Dimensioned drawing

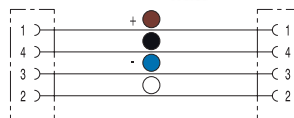
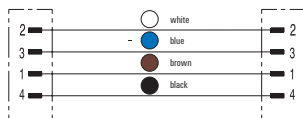
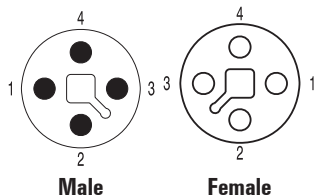




Connecting cables

M12

T-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Male, angled - female, straight	
PUR halogen-free	1.5 m
PUR halogen-free	3.0 m
PUR halogen-free	5.0 m
PUR halogen-free	10.0 m
Note	

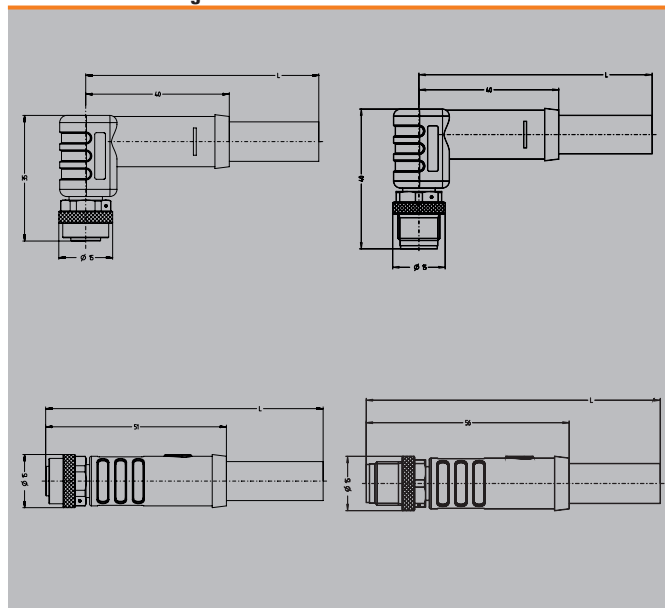
1.5 mm ²	
SAIL-M12GM12G-T-1.5P	2050760150
SAIL-M12GM12G-T-3.0P	2050760300
SAIL-M12GM12G-T-5.0P	2050760500
SAIL-M12GM12G-T-10P	2050761000
1.5 mm ²	
SAIL-M12GM12W-T-1.5P	2050830150
SAIL-M12GM12W-T-3.0P	2050830300
SAIL-M12GM12W-T-5.0P	2050830500
SAIL-M12GM12W-T-10P	2050831000
1.5 mm ²	
SAIL-M12WM12W-T-1.5P	2050860150
SAIL-M12WM12W-T-3.0P	2050860300
SAIL-M12WM12W-T-5.0P	2050860500
SAIL-M12WM12W-T-10P	2050861000
1.5 mm ²	
SAIL-M12WM12G-T-1.5P	2050820150
SAIL-M12WM12G-T-3.0P	2050820300
SAIL-M12WM12G-T-5.0P	2050820500
SAIL-M12WM12G-T-10P	2050821000

2.5 mm ²	
SAIL-M12GM12G-T-1.5H	2050870150
SAIL-M12GM12G-T-3.0H	2050870300
SAIL-M12GM12G-T-5.0H	2050870500
SAIL-M12GM12G-T-10H	2050871000
2.5 mm ²	
SAIL-M12GM12W-T-1.5H	2050910150
SAIL-M12GM12W-T-3.0H	2050910300
SAIL-M12GM12W-T-5.0H	2050910500
SAIL-M12GM12W-T-10H	2050911000
2.5 mm ²	
SAIL-M12WM12W-T-1.5H	2050920150
SAIL-M12WM12W-T-3.0H	2050920300
SAIL-M12WM12W-T-5.0H	2050920500
SAIL-M12WM12W-T-10H	2050921000
2.5 mm ²	
SAIL-M12WM12G-T-1.5H	2050890150
SAIL-M12WM12G-T-3.0H	2050890300
SAIL-M12WM12G-T-5.0H	2050890500
SAIL-M12WM12G-T-10H	2050891000

Technical data

Rated current	12 A
Protection degree	IP67, when screwed in
Core cross-section	1.5 mm
Contact surface	Gold-plated
Temperature range of housing	-25...+85 °C
Rated voltage	63 V
Approvals	

Dimensioned drawing



Customisable connectors

M12 screw connection
A-coded

SAIS / SAIB

SAISW / SAIBW



Ordering data

Male	
	4-pole, PG 11
	5-pole, PG 11
Female	
	4-pole, PG 11
	5-pole, PG 11
Note	

Type	QTY	Order No.
SAIS-4/11-1.5	1	1353700000
SAIS-5/11-1.5	1	1353740000
Female		
SAIB-4/11-1.5	1	1353730000
SAIB-5/11-1.5	1	1353750000
Note		

Type	QTY	Order No.
SAISW-4/11-1.5	1	1467660000
SAISW-5/11-1.5	1	1467680000
Female		
SAIBW-4/11-1.5	1	1467670000
SAIBW-5/11-1.5	1	1467690000
Note		

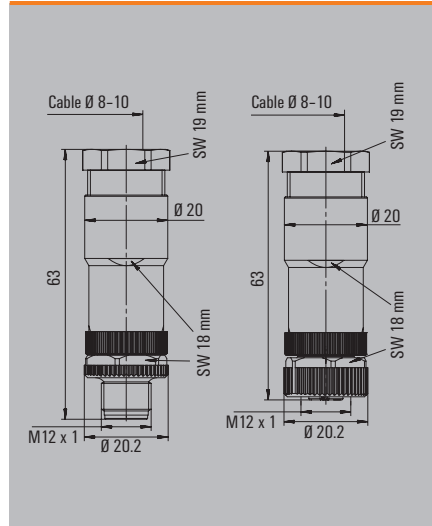
Technical data

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	Contacts 1-4 8A, contact 5 2A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

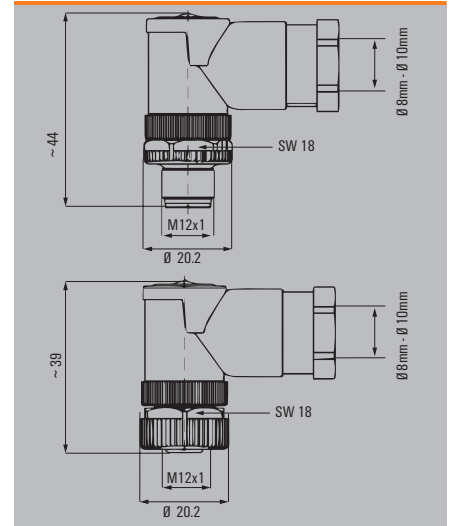
Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	Contacts 1-4 8A, contact 5 2A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	Contacts 1-4 8A, contact 5 2A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

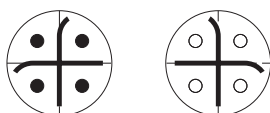
Dimensioned drawing



Dimensioned drawing



M12 screw connection
S-coded



Male

Female

Ordering data

Male	3-pole + PE
Female	3-pole + PE
Note	

Technical data

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

SAIS / SAIB



Type	QTY	Order No.
SAIS-3+PE/11-S-COD	1	1391990000
SAIB-3+PE/11-S-COD	1	1392000000

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

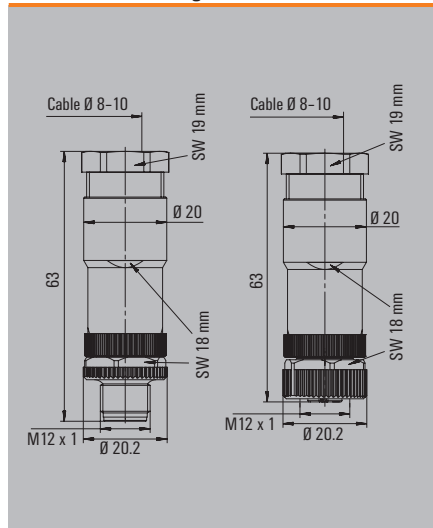
SAISW / SAIBW



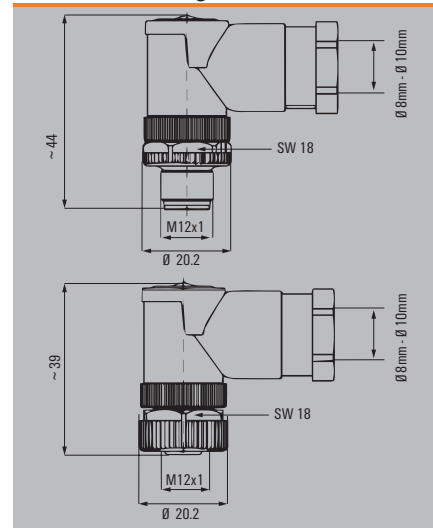
Type	QTY	Order No.
SAISW-3+PE/11-S-COD	1	1467860000
SAIBW-3+PE/11-S-COD	1	1467870000

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

Dimensioned drawing



Dimensioned drawing



Customisable connectors

M12 screw connection
T-coded

SAIS / SAIB



SAISW / SAIBW



Ordering data

Male	4-pole, PG 11
Female	4-pole, PG 11
Note	

Type	QTY	Order No.
SAIS-4/11-T-COD	1	1391970000
SAIB-4/11-T-COD	1	1391980000

Type	QTY	Order No.
SAISW-4/11-T-COD	1	1467880000
SAIBW-4/11-T-COD	1	1467890000

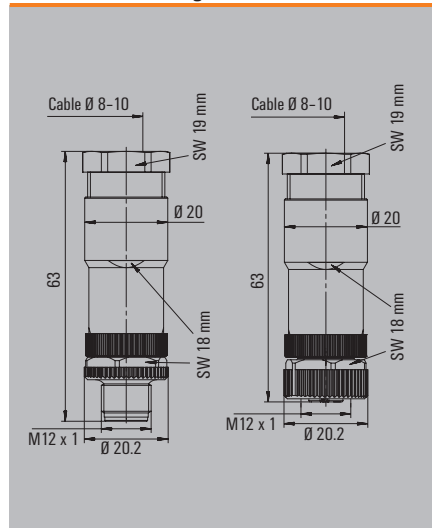
Technical data

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	12 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

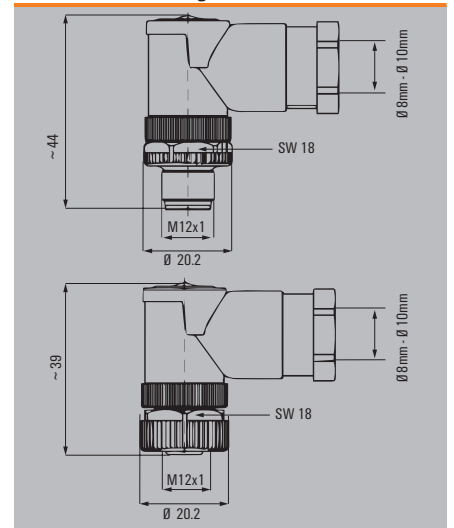
Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	12 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

Type of connection	Screw connection
Housing main material	PA
connection thread	M12
Cable diameter	8...10 mm (PG11)
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	12 A
Rated voltage	60 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Note	

Dimensioned drawing



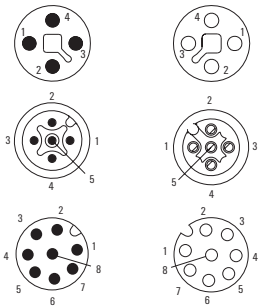
Dimensioned drawing



Customisable panel feed-through

M12 screw connection

A-coded



Male

Female



Ordering data

		4-pole		5-pole		8-pole	
Male	4-pole	SAIS-WDF-4-M20	1383020000				
	5-pole			SAIS-WDF-5-M20	1383030000		
	8-pole					SAIS-WDF-8-M20	1383040000
Female	4-pole	SAIB-WDF-4-M20	1383050000				
	5-pole			SAIB-WDF-5-M20	1383070000		
	8-pole					SAIB-WDF-8-M20	1383080000
Note							

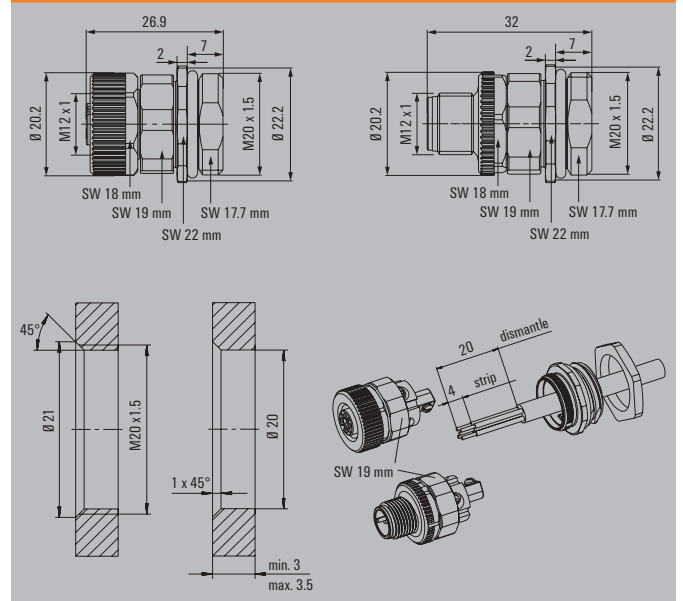
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Type of connection	Screw connection
Housing main material	Zinc diecast
connection thread	M12
Wire cross-section, min. / max.	0.14...1.5 mm ²
Rated current	8 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Contact material	CuZn
Plugging cycles	≥ 100
Pollution severity	3
Cable gland	M 20

Dimensioned drawing



M12 screw connection
S-coded
T-coded

SAIS / SAIB

S-coded



SAISX / SAIBX

T-coded



Ordering data

Male	4-pole
Female	4-pole
Note	

Type	QTY	Order No.
SAIS-WDF-3+PE-M20-S-COD	1	1460290000
SAIB-WDF-3+PE-M20-S-COD	1	1460300000

Type	QTY	Order No.
SAIS-WDF-4-M20-T-COD	1	1392710000
SAIB-WDF-4-M20-T-COD	1	1392720000

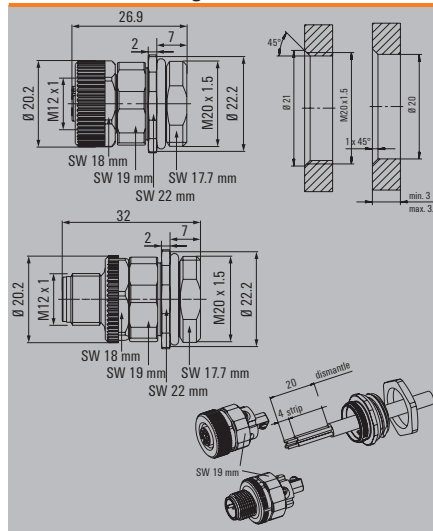
Technical data

Type of connection	Screw connection
Housing main material	Zinc diecast
connection thread	M12
Cable diameter	0.14...1.5 mm ²
Wire cross-section, min. / max.	12 A
Rated current	630 V
Rated voltage	-40 ... +85 °C
Temperature range of housing	IP67
Protection degree	Gold-plated
Contact surface	CuZn
Contact material	≥ 100
Plugging cycles	3
Pollution severity	M 20
Cable gland	
Note	

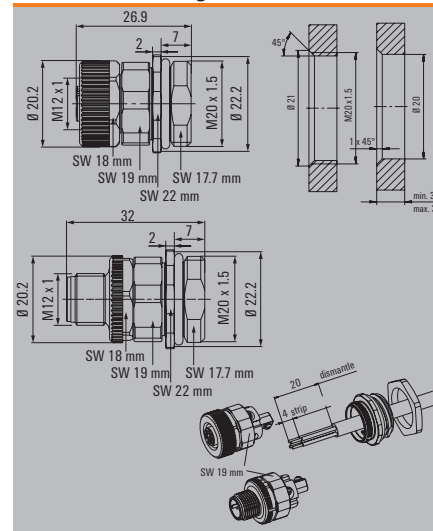
Type of connection	Screw connection
Housing main material	Zinc diecast
connection thread	M12
Cable diameter	0.14...1.5 mm ²
Wire cross-section, min. / max.	12 A
Rated current	60 V
Rated voltage	-40 ... +85 °C
Temperature range of housing	IP67
Protection degree	Gold-plated
Contact surface	CuZn
Contact material	≥ 100
Plugging cycles	3
Pollution severity	M 20
Cable gland	
Note	

Type of connection	Screw connection
Housing main material	Zinc diecast
connection thread	M12
Cable diameter	0.14...1.5 mm ²
Wire cross-section, min. / max.	12 A
Rated current	60 V
Rated voltage	-40 ... +85 °C
Temperature range of housing	IP67
Protection degree	Gold-plated
Contact surface	CuZn
Contact material	≥ 100
Plugging cycles	3
Pollution severity	M 20
Cable gland	
Note	

Dimensioned drawing



Dimensioned drawing

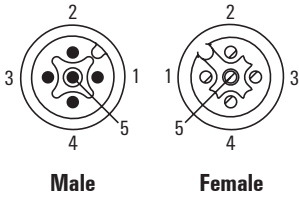


Built-in plug

A-coded

M12 (PG 9)

SAIE-M12



Ordering data

Male	
	4-pole
	5-pole
Female	
	4-pole
	5-pole
Note	

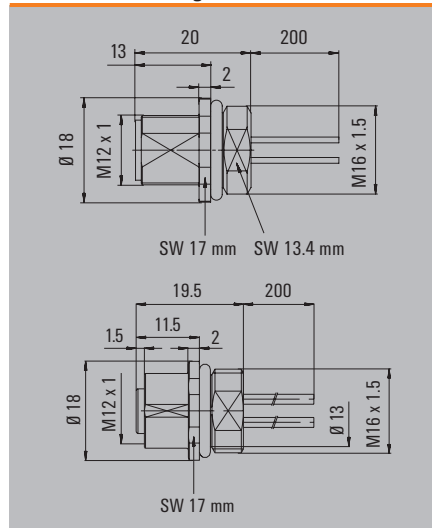
Type	QTY	Order No.
SAIE-M12S-4-0.2U P9 .75	1	1353770000
SAIE-M12S-5-0.2U P9 .75	1	1353790000
SAIE-M12B-4-0.2U P9 .75	1	1353780000
SAIE-M12B-5-0.2U P9 .75	1	1353800000
Note		

Technical data

Cable gland	
Housing main material	
connection thread	
Core cross-section	
Rated current	
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

PG 9
CuZn, nickel-plated
M12
18 AWG
Contacts 1-4 8A, contact 5 2A
250 V
-40 ... +85 °C
IP67, when screwed in
Gold-plated
Note

Dimensioned drawing



S-coded
T-coded

M12 (M16)

SAIE-M12



M12 (M16)

SAIE-M12



Ordering data

Male	
	4-pole, 0.2 m
	4-pole, 0.5 m
Female	
	4-pole, 0.2 m
	4-pole, 0.5 m
Note	

Type	QTY	Order No.
SAIE-M12S-4-S-0.2U-M16	1	1467930000
SAIE-M12S-3+PE-S-0.5U-M16	1	1460320000
SAIE-M12B-4-S-0.2U-M16	1	1467940000
SAIE-M12B-3+PE-S-0.5U-M16	1	1460310000

Type	QTY	Order No.
SAIE-M12S-4-T-0.2U-M16	1	1467950000
SAIE-M12S-4-T-0.5U-M16	1	1460340000
SAIE-M12B-4-T-0.2U-M16	1	1467960000
SAIE-M12B-4-T-0.5U-M16	1	1460330000

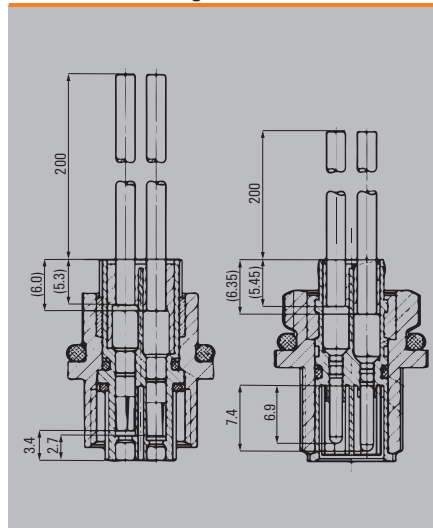
Technical data

Cable gland	M 16
Housing main material	CuZn, nickel-plated
connection thread	M12
Core cross-section	16 AWG
Rated current	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Note	

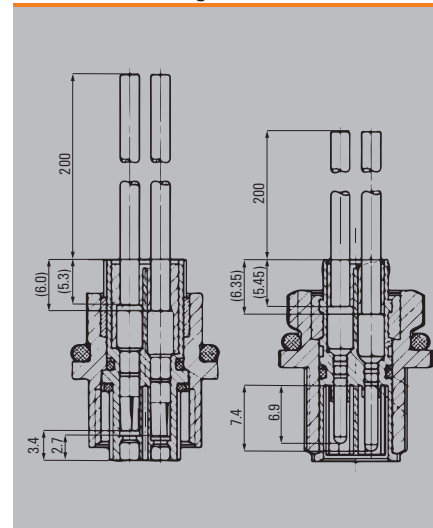
Cable gland	M 16
Housing main material	CuZn, nickel-plated
connection thread	M12
Core cross-section	16 AWG
Rated current	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Note	

Cable gland	M 16
Housing main material	CuZn, nickel-plated
connection thread	M12
Core cross-section	16 AWG
Rated current	12 A
Rated voltage	630 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67, when screwed in
Contact surface	Gold-plated
Note	

Dimensioned drawing



Dimensioned drawing



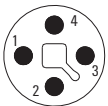
M12 distributor

**Hood version
T-coded**

SAI-M-4-SVV-M12



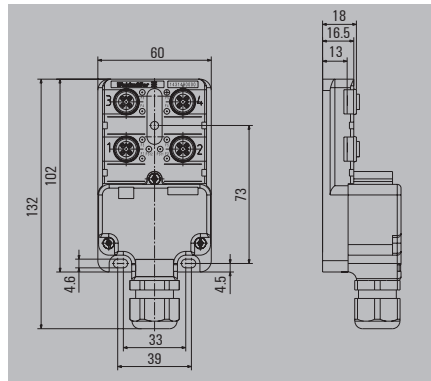
T-coding



Male



Socket



Ordering data

	4 plug-in slots
Note	

SAI-M-4-SVV-M12

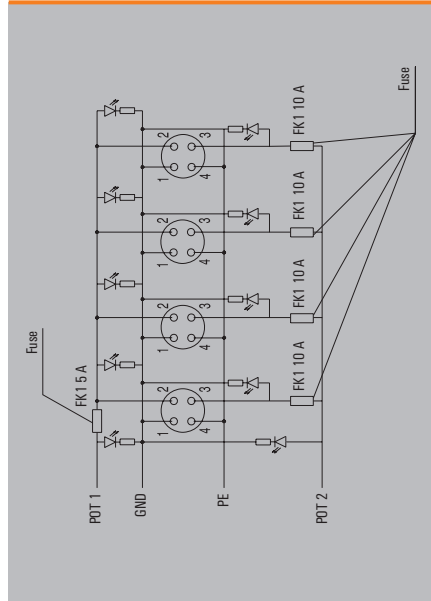
4-pole

Type	QTY	Order No.
SAI-M-4-SVV-M12	1	1431490000

Technical data

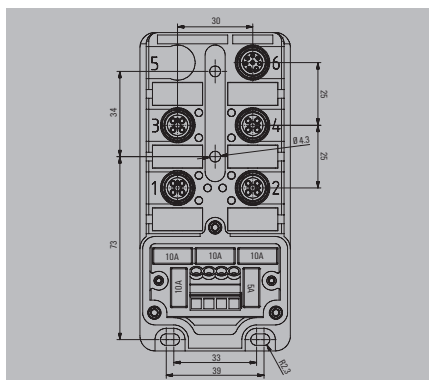
Operating voltage	10...30 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	10 A
Total current	32 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.5...4 mm ²
Suitable for dragline cable (fixed cable connection)	

Dimensioned drawing



Hood version with checkback signal

SAI-4-SVV-GM-RM



Ordering data

	4 plug-in slots
Note	

SAI-4-SVV-GM-RM

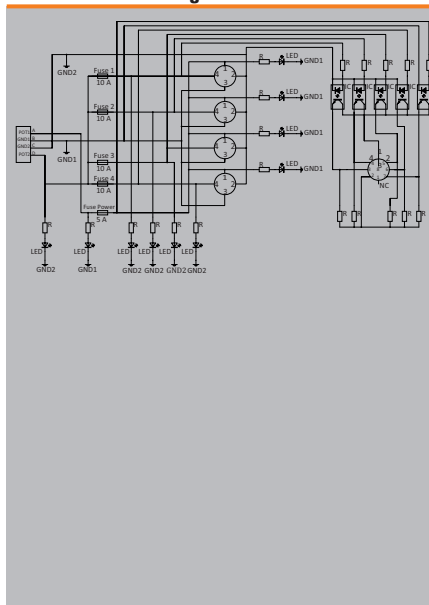
4-pole

Type	QTY	Order No.
SAI-4-SVV-GM-RM-M12	1	2495280000

Technical data

DC operating voltage	48 V
Current per signal	10 A
Max. current-carrying capacity per slot	10 A
Total current	32 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.5...4 mm ²
Conductor O.D.	6 - 12mm

Dimensioned drawing



M12 power distributor

Hood version S-coded

SAI-4-M-MVV-M12 S-COD



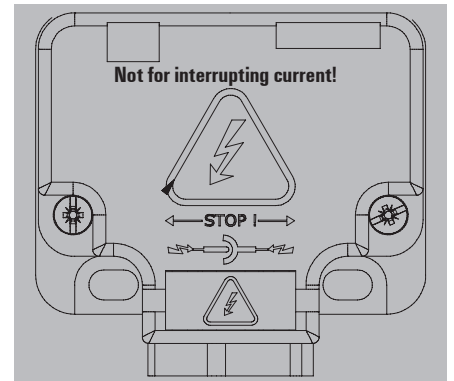
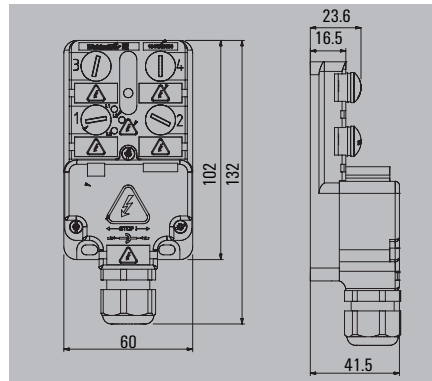
S-coding



Male



Female



Ordering data

Complete modules	4 plug-in slots
Note	

SAI-4-M-MVV-M12 S-COD

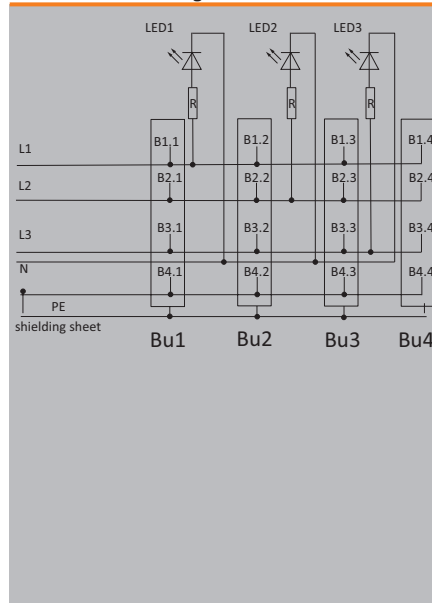
4-pole

Type	QTY	Order No.
SAI-4-M-MVV-M12 S-COD	1	1542580000

Technical data

Operating voltage AC	...400 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	27.6 A
Total current	27.6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...6 mm ²
Conductor O.D.	6 - 12mm

Dimensioned drawing

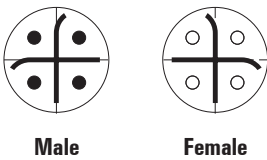


Hood version S-coded

SAI-4-M-MVV-M12 1:1

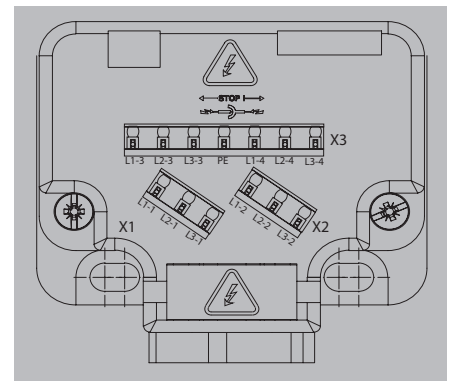
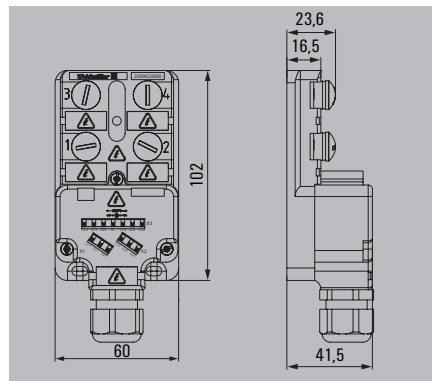


S-coding



Ordering data

Complete modules	4 plug-in slots
Note	



SAI-4-M-MVV-M12 1:1

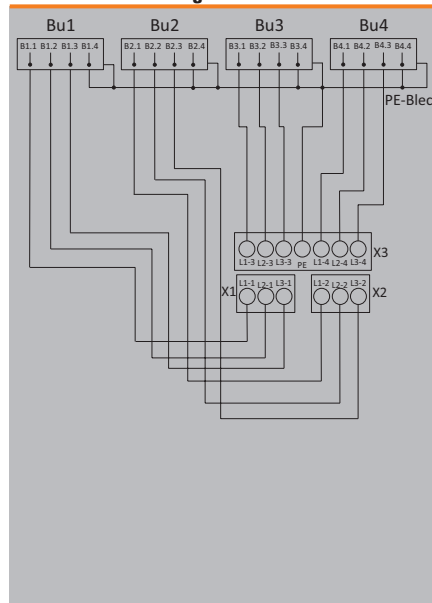
4-pin

Type	QTY	Order No.
SAI-4-M-MVV-M12 1:1	1	2009620000

Technical data

Operating voltage AC	400 V
Current per signal	12 A
Max. current-carrying capacity per slot	36 A
Total current	144 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...1.5 mm ²
Conductor O.D.	10 - 14mm

Dimensioned drawing



M12 power distributor

Hood version, S-coded

SAI-6-M-MVV-M12 S-COD



S-coding



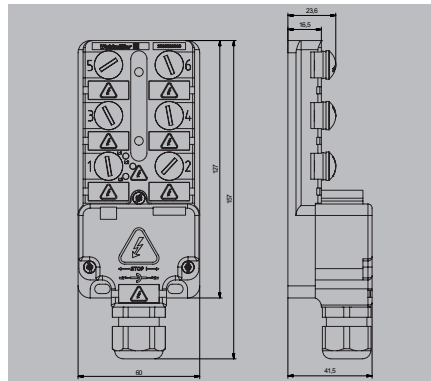
Male



Female

Ordering data

Complete modules	6 plug-in slots
Note	



SAI-6-M-MVV-M12 S-COD

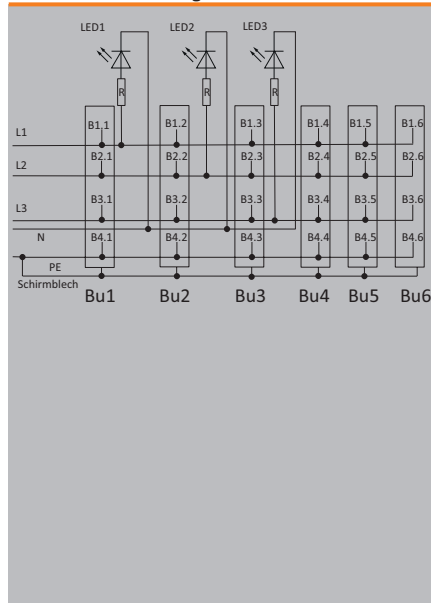
4-pole

Type	QTY	Order No.
SAI-6-M-MVV-M12 S-COD	1	2085620000

Technical data

Operating voltage AC	400 V
Current of continuous busbars	10 A
Max. current-carrying capacity per slot	27.6 A
Total current	27.6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.2...6 mm ²
Conductor O.D.	6 - 12mm

Dimensioned drawing



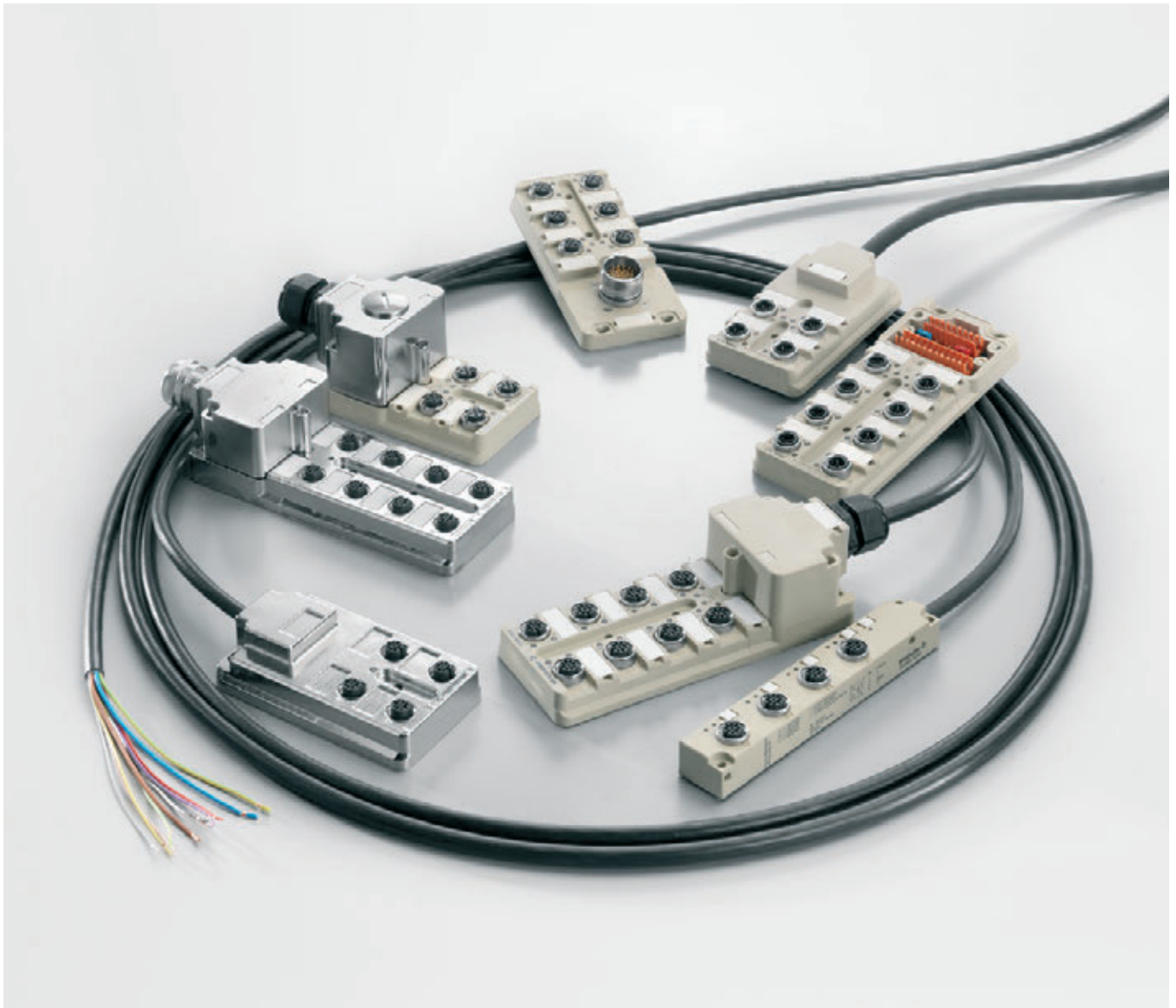
Passive distributors

Passive distributors	Introduction	H.2
	M12 distributors	H.4
	ECO modules	H.16
	M12 Push-Pull	H.18
	M12 IDC	H.22
	M12 VA stainless steel	H.26
	M12 metal distributors	H.28
	M12 distributors 1:1 Passive	H.34
	M12 Combi distributor	H.35
	M12 distributor for NPN and PNP sensors	H.36
	M12 wall bushing	H.37
	Solutions to customer specification	H.40
	M12 distributors accessories	H.41
	M8 distributors	H.42
	M5 distributors	H.52
	M12 Ex i distributors	H.56

SAI Passive

SAI Passive products are built with premium materials using the highest quality production methods. The fully encapsulated distributors are designed to meet harsh industrial requirements. Naturally they have also been designed so that they are easy to handle. The self assembled connectors in the hooded version, for example, are joined into a single part so that the entire block is available for the connection. This is a unique solution for distributors that has no equal anywhere. Nothing can break off, get mixed up or wired up incorrectly.

The distributors are equipped by default with threaded metal rings. This ensures a very reliable screw-on connection. The nut is completely threaded without any interruptions. This eliminates the possibility of it getting stuck or jammed. The IDC versions are especially noteworthy. Sensor cables of the proper lengths can be connected directly here.





Compact

The connection block is a single piece



Small

Extremely small M12 distributor



Fast

Insulation displacement connection can be used to directly connect the sensor cables



Robust

Threaded metal ring without cut outs for reliable, safe handling



M12 distributor standard



**M12 distributor with
DIP switch coding**

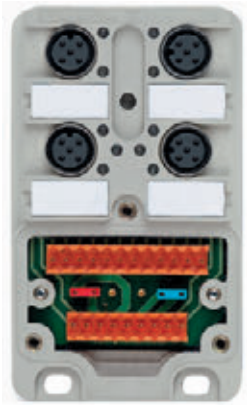


**M12 distributor with
stainless steel housing**



**M12 distributor
for Zone 1**

SAI distributor with plug in connection hood: SAI-M



- Integrated plug in connector in connection hood
- M12 robust metal thread for sensor/actuator connection, now also available with plastic thread as an alternative
- Quick replacement of bus cables
- Bus cable can be supplied pre-assembled
- Two connection systems for bus cable: screw or tension clamp
- Very flat connection hood: no higher than smallest 90° M12 round plug
- Distributor and connection hood can be supplied separately
- Connection hood compatible with 4 and 8 channel SAI distributors (upgrades only entail changing the base module)
- IP 68 Ingress protection class (IDC IP 67)
- Housing made from Pocan® (PBT):
 - high dimensional stability
 - good electrical and mechanical properties
 - flame retardant without dioxin or furan formers
 - resistant to coolants and lubricants
- UL/CSA approvals for M12 SAI distributor
- SAI distributor available in pollution severity class 3
- Cable exit on top
- Weidmüller SAI distributors have the largest storage capacity in the connection hood
- Female connectors integrated into the metal plate for fast and reliable connections
- Wide range of M8 and M12 cables and plug-in connectors
- Various cable lengths available
- Metal hoods and housings also available
- Plug-in connection module for bus cables increases flexibility on site
- Integral, plug in electrical isolation for two separate electric circuits (e.g. for emergency stop)
- Simple and vibration resistant connections on site
- Captive metric screws (grade 8.8 steel) have a +/- head
- M12 and IDC connections
- 1:1 arrangement available

Overview of M12 Distributors



Fixed cable version

- Pre-assembled bus cable minimises installation time and reduces wiring errors
- Cable carrier compatible versions are available with polyurethane (PUR) sheathing



M12 Push-Pull quick-fit connection system

M12 Push-Pull is the new connection system for sensors and actuators. It is downward compatible to the existing M12 system, which means that both old M12 and new M12 Push-Pull lines can be used together on these SAIs. M12 Push-Pull decreases installation time and increases installation safety by means of colour coding and provides an audible click on locking for added reassurance.



SAI ECO – the cost-effective alternative

Weidmüller SAI distributors with hood have long since been standard fittings in machines and installations.

Why plastic threaded rings?

There are some applications, however, that call for a further version. In some applications it is necessary to avoid all metal parts, unless these are made from stainless steel. In such cases stainless steel is then used for screws and nuts only, but the M12 threaded rings can be made from plastic. Such modules can now be supplied on request.

The use of plastic rings results in a cheaper alternative. Although the service life and resistance are reduced when compared to metal, this is acceptable for some applications.

Overview of SAI

M12 Plastic

	Hood	M23	5 m	10 m	15 m	20 m
4-way, 4-pole	1705920000	9456000000	9456190000	9456200000	9456210000	9456230000
4-way, 5-pole	1701230000	9456000001	9456330000	9456340000	9456350000	9456370000
6-way, 4-pole	1705930000	9456010000	9456470000	9456480000	9456490000	9456510000
6-way, 5-pole	1701240000	9456010001	9456610000	9456620000	9456630000	9456650000
8-way, 4-pole	1705940000	9456020000	9456750000	9456760000	9456770000	9456790000
8-way, 5-pole	1701250000	1795470000	9456890000	9456900000	9456910000	9456930000

M12 Metal

	Hood without shield connection	Hood with shield connection	5 m	10 m		
4-way, 4-pole		1783540000	9456190002	9456200002		
4-way, 5-pole	1783500000	1783520000				
8-way, 4-pole		1783530000	9456750002	9456760002		
8-way, 5-pole	1783490000	1783510000				

M12 Line

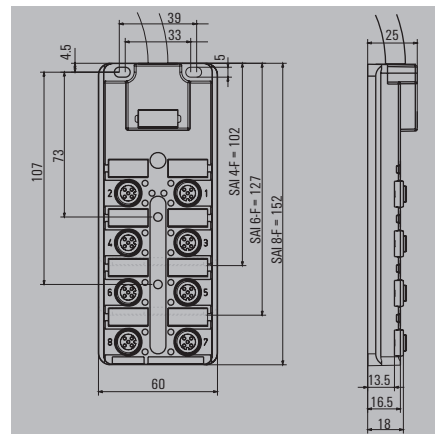
	M12 group outlet		5 m	10 m		
4-way, 4-pole	1267330000		1070650000	1070660000		
4-way, 5-pole			1070630000	1070640000		
6-way, 4-pole	1265940000		1265920000	1265930000		

M8 Line

	M12 group outlet	Solder version for PCB	5 m	10 m		
4-way, 3-pole	1828740000		1828720000	1828710000		
4-way, 4-pole			1849680000	1849690000		
6-way, 3-pole	1828730000	1057720000	1828700000	1828690000		
6-way, 4-pole			1849700000	1849670000		
8-way, 3-pole	1871680000		1828680000	1828670000		
8-way, 4-pole			1828620000	1828610000		
10-way, 3-pole	1877950000		1828660000	1828650000		
12-way, 3-pole			1828640000	1828630000		

M12 distributors

Fixed cable version



Ordering data

4-channel	
	3 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
6-channel	
	3 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
8-channel	
	3 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
8-channel with reinforced fixed cable*	
	2 m cable length
	5 m cable length
	10 m cable length
	15 m cable length
	20 m cable length
Note	

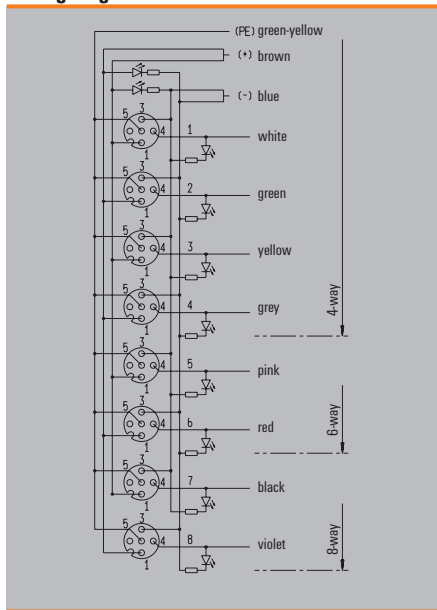
SAI-4/6/8-F		4-pole	
Type	QTY	Order No.	
SAI-4-F 4P PUR 3M	1	9456180000	
SAI-4-F 4P PUR 5M	1	9456190000	
SAI-4-F 4P PUR 10M	1	9456200000	
SAI-4-F 4P PUR 15M	1	9456210000	
SAI-4-F 4P PUR 20M	1	9456230000	
SAI-6-F 4P PUR 3M	1	9456460000	
SAI-6-F 4P PUR 5M	1	9456470000	
SAI-6-F 4P PUR 10M	1	9456480000	
SAI-6-F 4P PUR 15M	1	9456490000	
SAI-6-F 4P PUR 20M	1	9456510000	
SAI-8-F 4P PUR 3M	1	9456740000	
SAI-8-F 4P PUR 5M	1	9456750000	
SAI-8-F 4P PUR 10M	1	9456760000	
SAI-8-F 4P PUR 15M	1	9456770000	
SAI-8-F 4P PUR 20M	1	9456790000	
Other versions on request			

SAI-4/6/8-F		5-pole	
Type	QTY	Order No.	
SAI-4-F 5P PUR 3M	1	9456320000	
SAI-4-F 5P PUR 5M	1	9456330000	
SAI-4-F 5P PUR 10M	1	9456340000	
SAI-4-F 5P PUR 15M	1	9456350000	
SAI-4-F 5P PUR 20M	1	9456370000	
SAI-6-F 5P PUR 3M	1	9456600000	
SAI-6-F 5P PUR 5M	1	9456610000	
SAI-6-F 5P PUR 10M	1	9456620000	
SAI-6-F 5P PUR 15M	1	9456630000	
SAI-6-F 5P PUR 20M	1	9456650000	
SAI-8-F 5P PUR 3M	1	9456880000	
SAI-8-F 5P PUR 5M	1	9456890000	
SAI-8-F 5P PUR 10M	1	9456900000	
SAI-8-F 5P PUR 15M	1	9456910000	
SAI-8-F 5P PUR 20M	1	9456930000	
SAI-8-F 5P 2M 0.5/1.0U	1	7915030000	
SAI-8-F 5P 5M 0.5/1.0U	1	9457590000	
SAI-8-F 5P 10M 0.5/1.0U	1	9457600000	
SAI-8-F 5P 15M 0.5/1.0U	1	1784510000	
SAI-8-F 5P 20M 0.5/1.0U	1	1784500000	
Other versions on request			

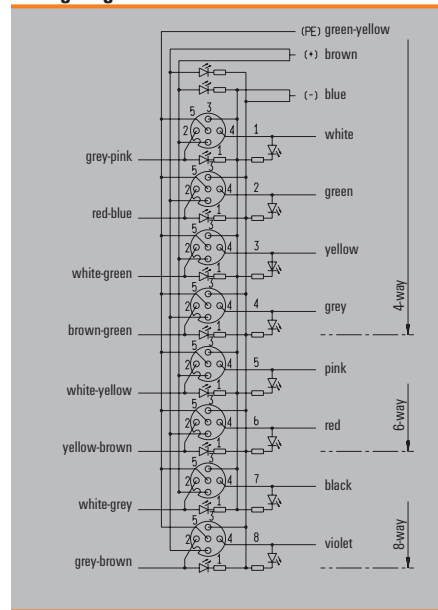
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes
* 3x1mm ² und 16x0.5mm ² total current 12A	

Wiring diagram

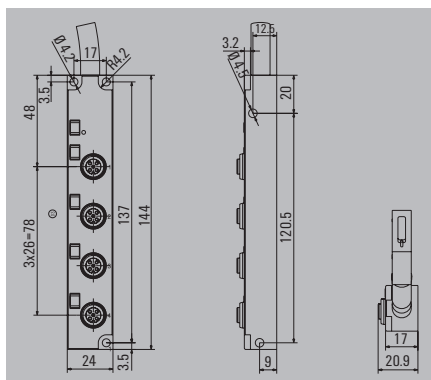


Wiring diagram

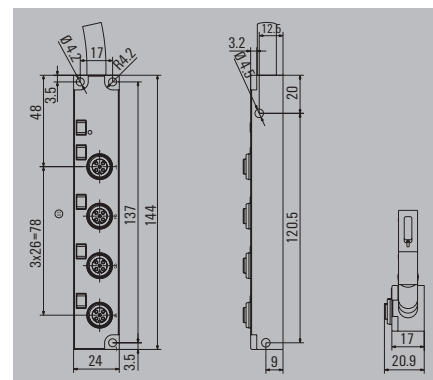


Fixed cable version
Thin design

SAI-4-F M12 L



SAI-4-F M12 L



Ordering data

4-channel	
	5 m cable length
	10 m cable length
Note	

SAI-4-F M12 L

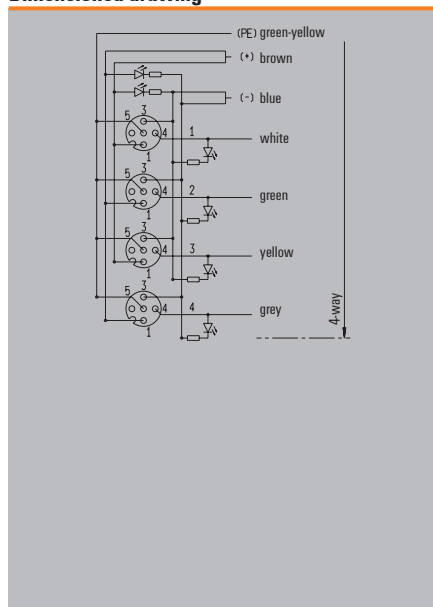
Type	QTY	Order No.	4-pole
SAI-4-F 4P M12 L 5M	1	1070650000	
SAI-4-F 4P M12 L 10M	1	1070660000	
Other versions on request			

Type	QTY	Order No.	5-pole
SAI-4-F 5P M12 L 5M	1	1070630000	
SAI-4-F 5P M12 L 10M	1	1070640000	
Other versions on request			

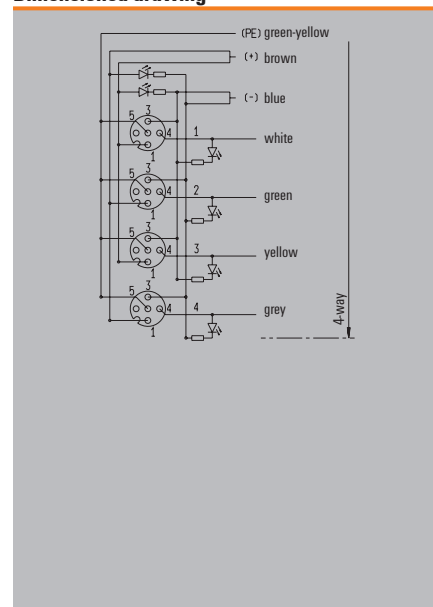
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing



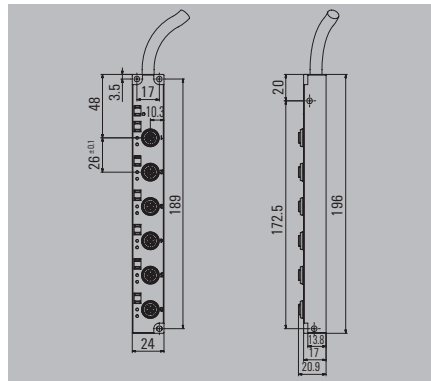
Dimensioned drawing



M12 distributors

 Fixed cable version
Thin design

SAI-6-F M12 L



Ordering data

4-channel	
	5 m cable length
	10 m cable length
Note	

SAI-6-F M12 L

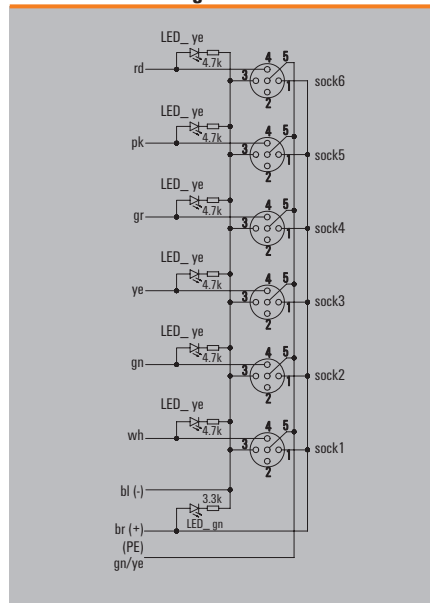
4-pole

Type	QTY	Order No.
SAI-6-F 4P M12 L 5M	1	1265920000
SAI-6-F 4P M12 L 10M	1	1265930000

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

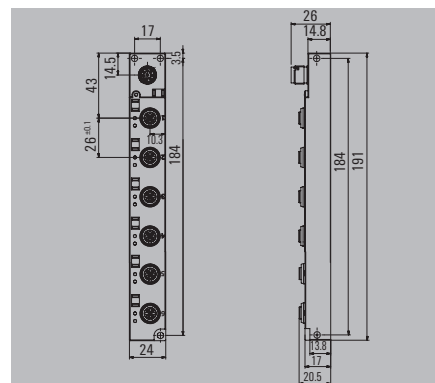
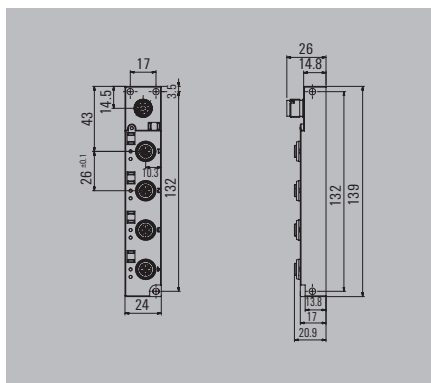
Dimensioned drawing



Line

SAI-4-S

SAI-6-S



Ordering data

3-pole	4 plug-in slots
Note	

SAI-4-S

M12

Type	QTY	Order No.
SAI-4-S8 4P M12 L	1	1267330000

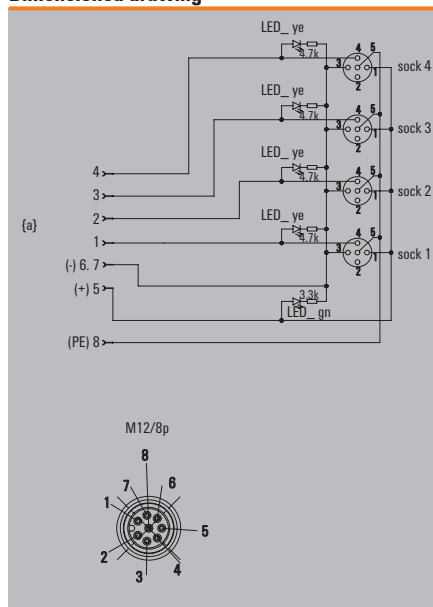
M12

Type	QTY	Order No.
SAI-6-S12 4P M12 L	1	1265940000

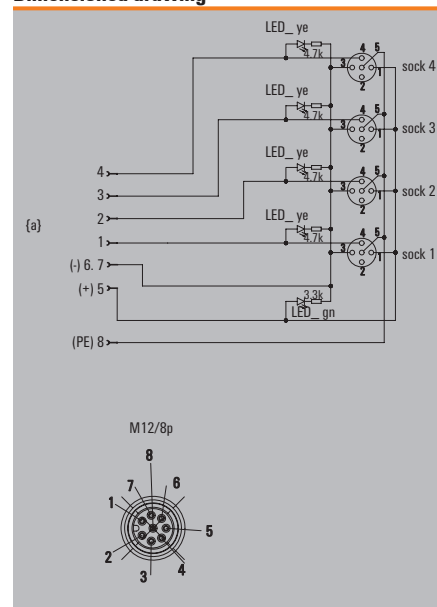
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Dimensioned drawing

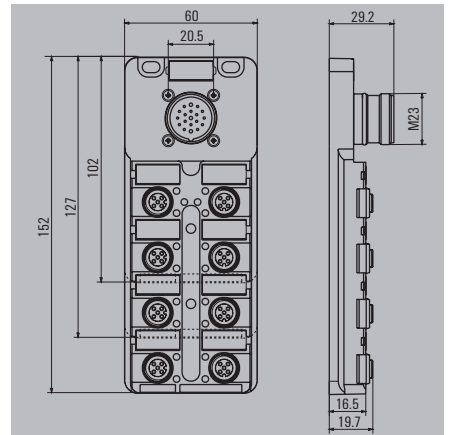


Dimensioned drawing



M12 distributors

with M23 outlet



Ordering data

Complete modules	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
Note	

SAI-4/6/8-S

4-pole

Type	QTY	Order No.
SAI-4-S 4P M12	1	9456000000
SAI-6-S 4P M12	1	9456010000
SAI-8-S 4P M12	1	9456020000
Other versions on request		

SAI-4/6/8-S

5-pole

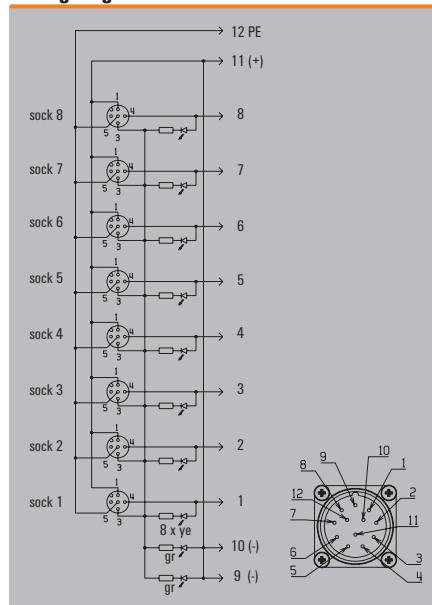
Type	QTY	Order No.
SAI-4-S 5P M12	1	9456000001
SAI-6-S 5P M12	1	9456010001
SAI-8-S 5P M12	1	1795470000
Other versions on request		

H

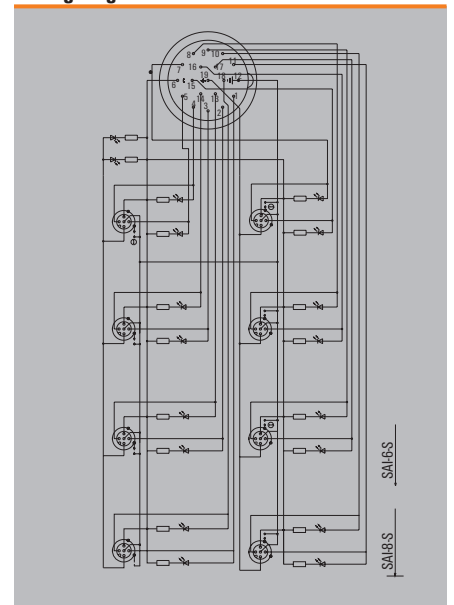
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Wiring diagram

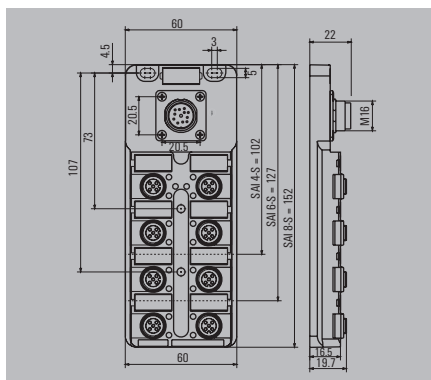


Wiring diagram



with M16 outlet

SAI-8-M16



Ordering data

Complete modules	8 plug-in slots
Note	

SAI-8-M16

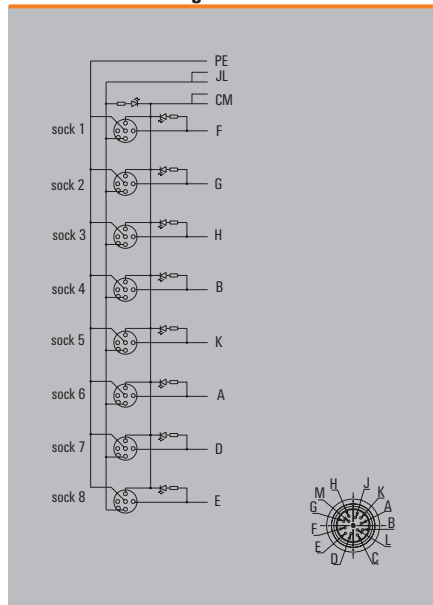
4-pole

Type	QTY	Order No.
SAI-8-M16 4P M12	1	1831020000
Other versions on request		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	6 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

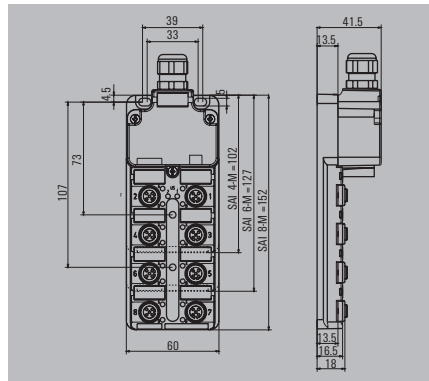
Dimensioned drawing



M12 distributors

 Hood version
with DIP-switch coding

SAI-8-M M12 DIP



Ordering data

Complete modules	
	8 plug-in slots
Note	

SAI-8-M M12 DIP

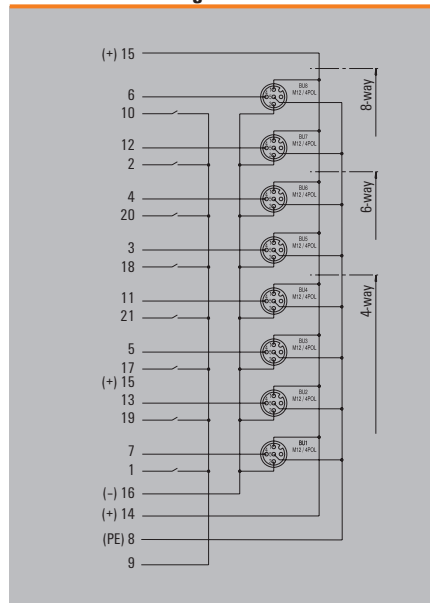
4-pole

Type	QTY	Order No.
SAI-8-M-4P M12 DIP	1	1059430000
Other versions on request		

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	

Dimensioned drawing



SAI ECO

SAI ECO – the cost-effective alternative

The Weidmüller SAI distributors with hoods have long since been standard fittings in machines and installations.

Why plastic threaded rings?

There are some applications, however, that call for a further version. In some applications it is necessary to avoid all metal parts. In such cases stainless steel is then used for screws and nuts only, but the M12 threaded rings can be made from plastic. Such modules can now be supplied on request.

The use of plastic rings results in a cheaper alternative. Although the service life and resistance are reduced when compared to metal, this is acceptable for some applications.

Cost-effective alternative

The ECO modules were initially developed to optimise costs. Many details of these modules were adapted in such a way that they can still be used wherever standard modules were used in the past, but the individual solutions have now become simpler:

- **Markers:** Markers clipped onto the module can no longer be printed with a identification system. It is easier to simply order the markers with the required printing from us. The markers in the proven MultiCard format are printed with our PrintJetPro Printer.
- **One way disconnecter:** Up until now it was usual to achieve electrical isolation devised by Weidmüller by way of jumpers. To reduce costs, these jumpers have been replaced by solder bridges. These are simply cut to provide electrical isolation.
- **No protective caps:** Normally, Weidmüller M12 distributors are always supplied with two protective caps. These were not always required and so they have been omitted.
- **Standard cable gland:** The vibration resistant black screw cable gland has been replaced by a standard IP 68 cable gland.

These cost-cutting measures result in yet more applications for Weidmüller SAI distributors.

Greater reliability than with comparable systems

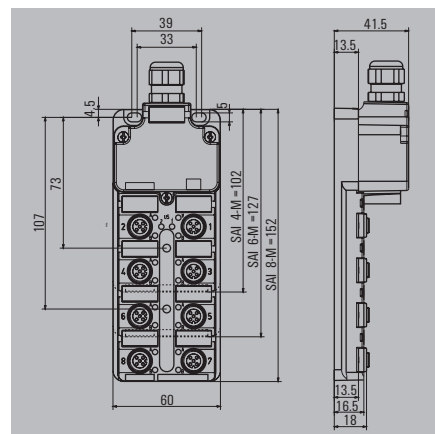
Plastic threaded rings are nothing new. However, the problem in the past was that the threaded rings formed part of the housing and were therefore made from the same plastic.

Weidmüller has once again pioneered a new and better solution. Weidmüller plastic rings are manufactured separately, which means that a more suitable, more durable material can be chosen. The Weidmüller production method is also patented.



Special threaded ring increases durability

Hood version



Ordering data

Complete modules	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
NPN	4 plug-in slots
NPN	8 plug-in slots
Base unit	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
Mounting hood	
	Screw connection
	Tension-clamp connection
Note	

SAI-4/6/8-M

5-pole

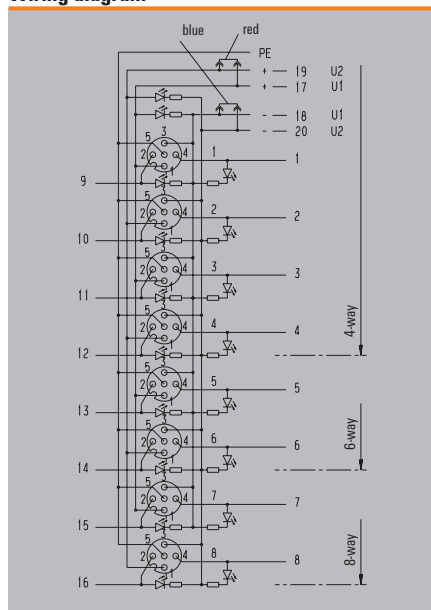
Type	QTY	Order No.
SAI-4-M 5P M12 ECO	1	1892100000
SAI-6-M 5P M12 ECO	1	1892090000
SAI-8-M 5P M12 ECO	1	1892080000
SAI-4-M 5P M12 NPN ECO	1	1892100005
SAI-8-M 5P M12 NPN ECO	1	1892080005
SAI-4-M 5P M12 ECO UT	2	1892101000
SAI-6-M 5P M12 ECO UT	2	1892091000
SAI-8-M 5P M12 ECO UT	2	1892081000
SAI-4/6/8-MH BL3.5 SV	50	1724750050
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050

These distributors are supplied without protective caps and markers.

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	Pocan
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	
With dual power supply: 2x8 = 16A total current Clamping range up to 2.5 mm ² with screw connection	

Wiring diagram



M12 Push-Pull: SAI distributors and cables, with rapid-connection technology

SAI distributors with M12 Push-Pull plug

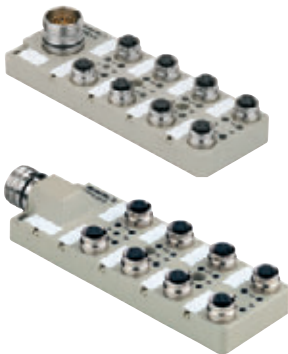


Whereas the standard M12 system requires the sleeves to be laboriously screwed on and that operation is hindered by the vibration guard, M12 Push-Pull works with one click, just like those well-known garden hose systems. The audible locking function guarantees a safe and reliable connection as well as a good seal.

M12 Push-Pull is currently supplied by Weidmüller and five other international companies.

M12 Push-Pull connections provide sufficient space for using T-pieces. The SAI module is slimmer and now only 54 mm wide.

M12 Push-Pull M23 versions



The new SAI M12 Push-Pull distributors can be used with M12 plug-in connectors but also with the new M12 Push-Pull plug-in connectors.

The SAI distributors are available in fixed cable, hood, bayonet connection and M23 versions.

M12 Push-Pull speeds up installation and increases installation reliability thanks to the colour coding and the audible click when locking it into place.

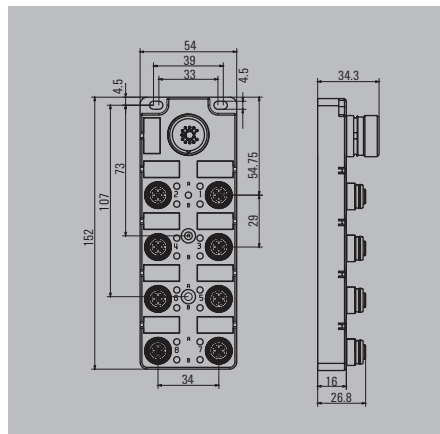
M12 Push-Pull hood version



M12 Push-Pull with bayonet connection



with M23 outlet



Ordering data

Complete modules	
	4 plug-in slots
	8 plug-in slots
Note	

SAI-4/8-S

4-pole

Type	QTY	Order No.
SAI-4-S 4P FC	1	1847960000
SAI-8-S 4P FC	1	1847920000
Other versions on request		

SAI-4/8-S

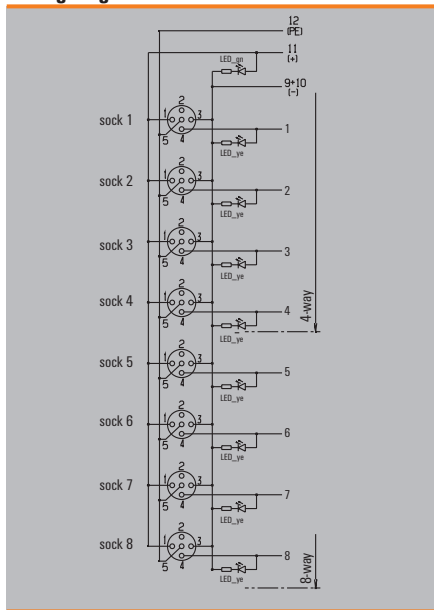
5-pole

Type	QTY	Order No.
SAI-4-S 5P FC	1	1847970000
SAI-8-S 5P FC	1	1848040000
Other versions on request		

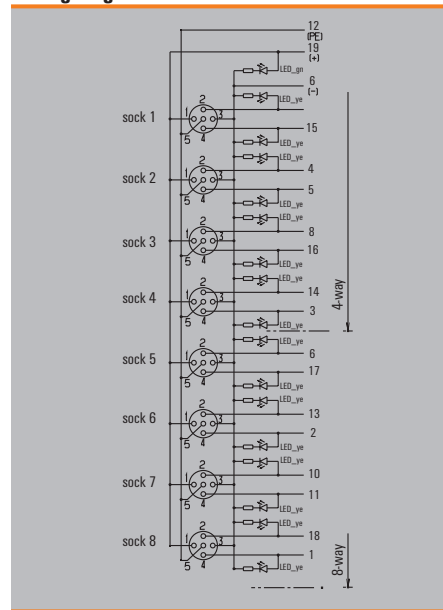
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Wiring diagram

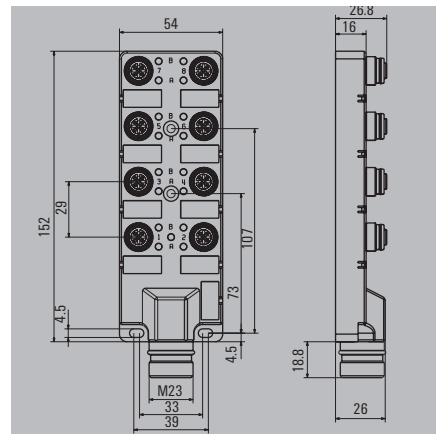


Wiring diagram



M12 Push-Pull

with M23 outlet on front



Ordering data

Complete modules	
	4 plug-in slots
	8 plug-in slots
Note	

SAI-4/8-SH

SAI-4/8-SH		4-pole	
Type	QTY	Order No.	
SAI-4-SH 4P FC	1	1859110000	
SAI-8-SH 4P FC	1	1859120000	

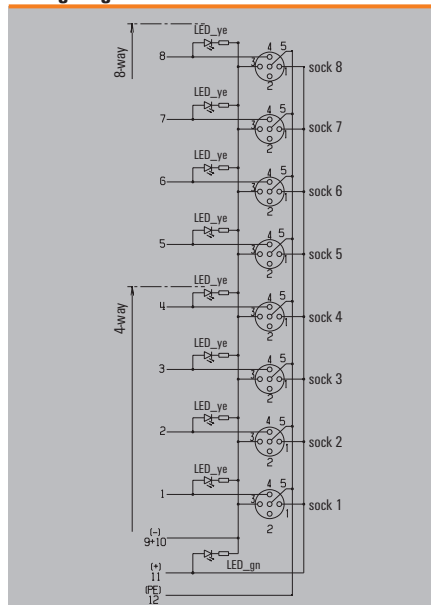
SAI-4/8-SH

SAI-4/8-SH		5-pole	
Type	QTY	Order No.	
SAI-4-SH 5P FC	1	1859130000	
SAI-8-SH 5P FC	1	1859140000	

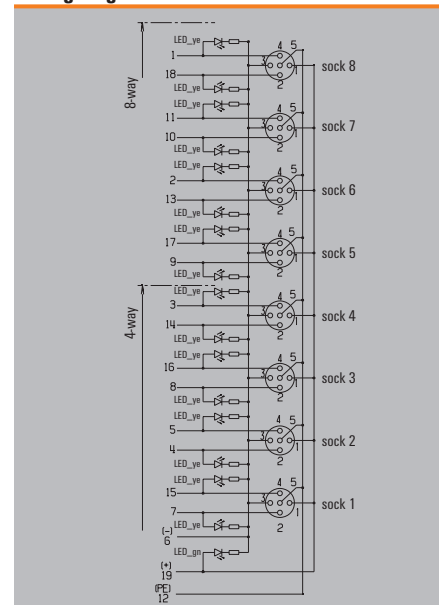
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Wiring diagram



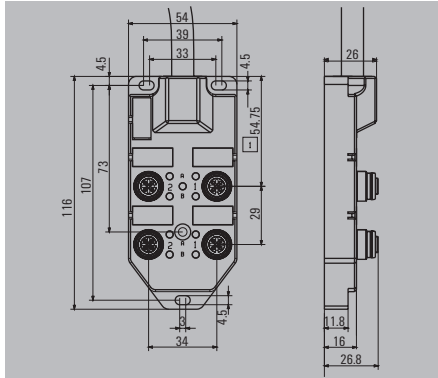
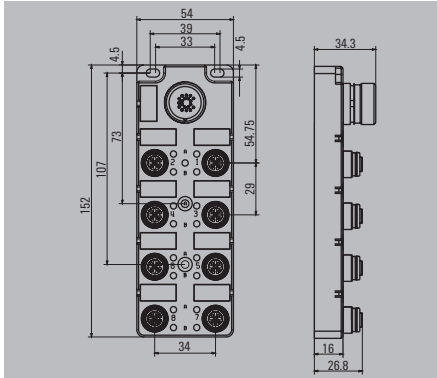
Wiring diagram



CNOMO

SAI-4/8-S

SAI-4/8-F



Ordering data

4-channel	
	5 m cable length
	10 m cable length
8-channel	
	5 m cable length
	10 m cable length
M23	
	4 plug-in slots
	8 plug-in slots
Note	

SAI-4/8-S		5-pole	
Type	QTY	Order No.	
SAI-4-S 5P CNOMO	1	1861540000	
SAI-8-S 5P CNOMO	1	1861580000	

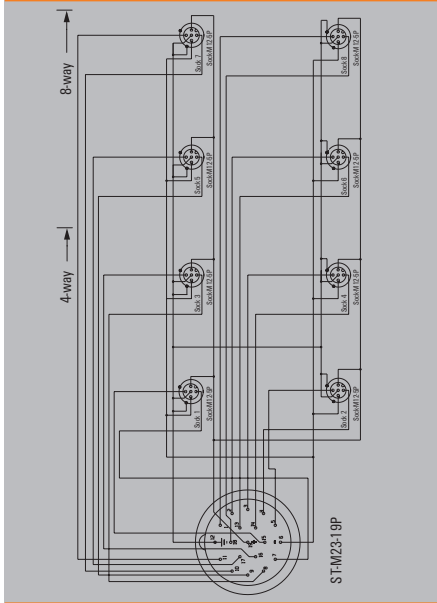
SAI-4/8-F		5-pole	
Type	QTY	Order No.	
SAI-4-F 5P CNOMO 5M	1	1861570000	
SAI-4-F 5P CNOMO 10M	1	1861560000	
SAI-8-F 5P CNOMO 5M	1	1861550000	
SAI-8-F 5P CNOMO 10M	1	1861590000	

Technical data

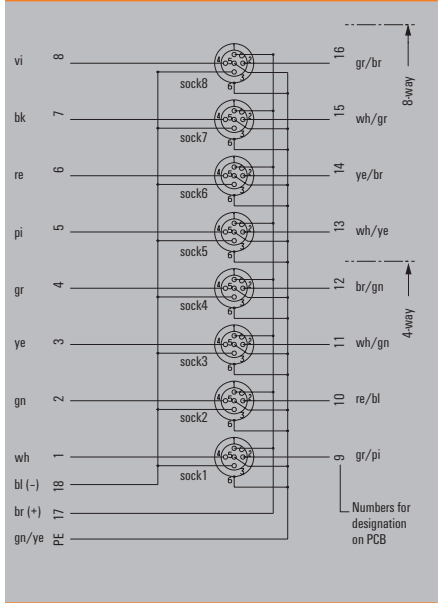
Operating voltage	10...50 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	12 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Max. total current with 4-channel distributor is 8A. And with 8-channel distributor is 12A

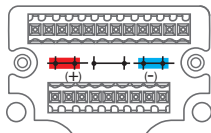
Dimensioned drawing



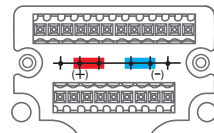
Dimensioned drawing



IDC – the quick connection



Factory setting
(see wiring diagram)
Current bridged



Current isolated



Hood version

- Compact IDC connection cuts production, commissioning and maintenance work
- Robust, knurled metal nut, safe handling requiring little force
- The dimensions of the IDC distributor correspond to and are compatible with the standard SAI distributor
- Plug-in connection module for bus cables enhances on-site flexibility
- Three sizes for 4, 6 and 8 channels
- 3-pole version with one I/O signal per channel, 4-pole version with two I/O signals per channel
- Individual on site assembly of sensor/actuator lines
- Fast, reliable connection with IDC connection element
- IP 67 Ingress protection classification

SAI fixed cable version

- Pre-assembled bus cables minimise installation work and avoid wiring errors
- 3 sizes for 4, 6 and 8 channels
- Highly flexible, cable carrier compatible bus cables with polyurethane (PUR/PVC) sheathing
 - 3 x 0.75 mm²
 - n x 0.34 mm²
- 3-pole version with one I/O signal per channel, 4-pole version with two I/O signals per channel

IDC connection element

Ordering data

Type	Qty.	Order No.
SAI-SA-3-IDC	1	9457720000
SAI-SA-4-IDC	1	1766810000



The significant advantages of Weidmüller tools:

- Easy handling
- Very small, ideal for confined assembly conditions
- Patented solution
- Metal Connectors

Insulation displacement connections on Weidmüller SAI distributors are currently the smallest but also the most robust connection elements on the market. Thanks to their extremely small dimensions, corresponding distributors are available with the same dimensions in M12 or IDC versions.

For large series, e.g. where more than 100 modules are used every year, we recommend using a special tool to simplify the handling of the connected lines even further. However, this tool is not always necessary because all connection elements can usually be readily tightened by hand.

IDC-Tool



Ordering data

Type	Qty.	Order No.
SA-IDC-Tool	1	1795020000

Screwty®

The IDC elements can also be tightened with the Weidmüller Screwty®.



Ordering data

Type	Qty.	Order No.
Screwty®-M12-DM	1	1900001000

Protective cap M12 for IDCw

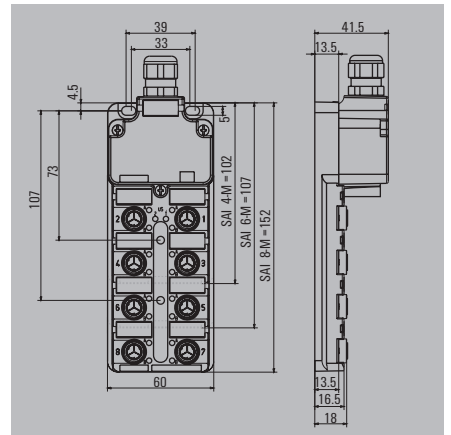


Ordering data

Type	Qty.	Order No.
SAI-SK-M12 IDC	10	1794850000

M12 IDC

Hood version



Ordering data

Complete modules	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
Base unit	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
Mounting hood	
	Screw connection
	Screw connection
	Tension-clamp connection
	Tension-clamp connection
Note	

SAI-4/6/8-M IDC

		3-pole	
Type	QTY	Order No.	
SAI-4-M 3P IDC	1	1760040000	
SAI-6-M 3P IDC	1	1760050000	
SAI-8-M 3P IDC	1	1760060000	
<hr/>			
SAI-4-M 3P IDC UT	2	1760041000	
SAI-6-M 3P IDC UT	2	1760051000	
SAI-8-M 3P IDC UT	2	1760061000	
<hr/>			
SAI-4/6/8-MH BL3.5	1	1724750000	
SAI-4/6/8-MH BL3.5 SV	50	1724750050	
SAI-4/6/8-MH BLZF3.5	1	1752080000	
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050	
Other versions on request			

SAI-4/6/8-M IDC

		4-pole	
Type	QTY	Order No.	
SAI-4-M 4P IDC	1	1766780000	
SAI-6-M 4P IDC	1	1766790000	
SAI-8-M 4P IDC	1	1766800000	
<hr/>			
SAI-4-M 4P IDC UT	2	1766781000	
SAI-6-M 4P IDC UT	2	1766791000	
SAI-8-M 4P IDC UT	2	1766801000	
<hr/>			
SAI-4/6/8-MH BL3.5	1	1724750000	
SAI-4/6/8-MH BL3.5 SV	50	1724750050	
SAI-4/6/8-MH BLZF3.5	1	1752080000	
SAI-4/6/8-MH BLZF3.5 SV	50	1752080050	
Other versions on request			

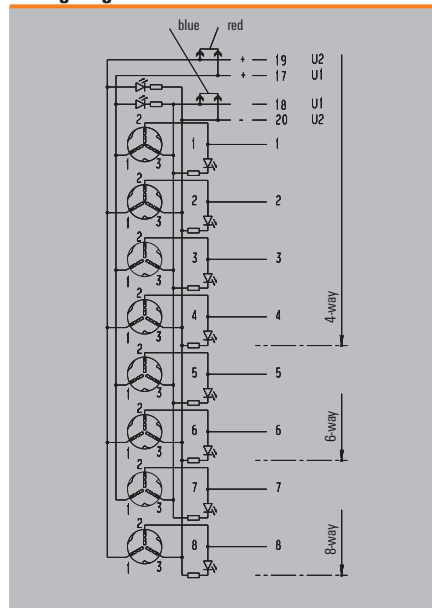
H

Technical data

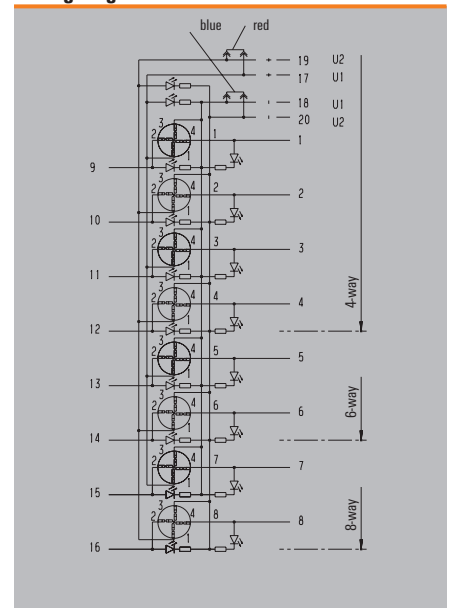
Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	2
Protection degree	IP67
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	

With dual power supply: 2x8 = 16 A total current
Clamping range up to 2.5 mm² with screw connection

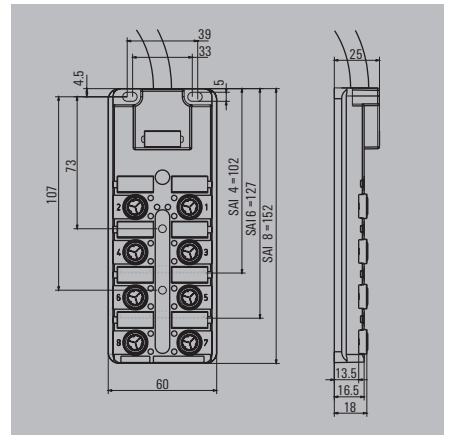
Wiring diagram



Wiring diagram



Fixed cable version



Ordering data

4-channel	
	5 m cable length
	10 m cable length
6-channel	
	5 m cable length
	10 m cable length
8-channel	
	5 m cable length
	10 m cable length
Note	

SAI-4/6/8-F IDC

3-pole

Type	QTY	Order No.
SAI-4-F 3P IDC PUR 5M	1	1766720000
SAI-4-F 3P IDC PUR 10M	1	1766730000
SAI-6-F 3P IDC PUR 5M	4	1766740000
SAI-6-F 3P IDC PUR 10M	1	1766750000
SAI-8-F 3P IDC PUR 5M	1	1766760000
SAI-8-F 3P IDC PUR 10M	1	1766770000
Other versions on request		

SAI-4/6/8-F IDC

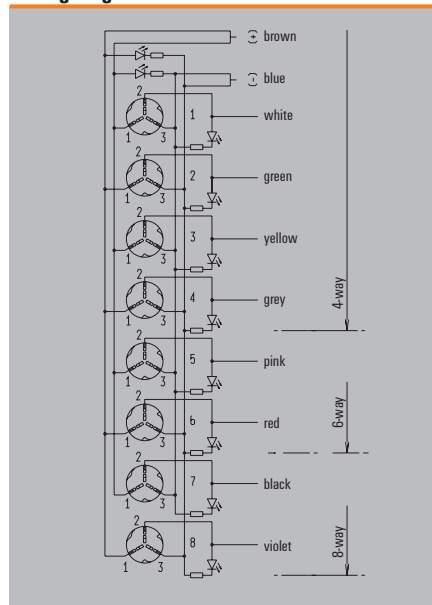
4-pole

Type	QTY	Order No.
SAI-4-F 4P IDC PUR 5M	1	1766660000
SAI-4-F 4P IDC PUR 10M	1	1766670000
SAI-6-F 4P IDC PUR 5M	1	1766680000
SAI-6-F 4P IDC PUR 10M	1	1766690000
SAI-8-F 4P IDC PUR 5M	1	1766700000
SAI-8-F 4P IDC PUR 10M	1	1766710000
Other versions on request		

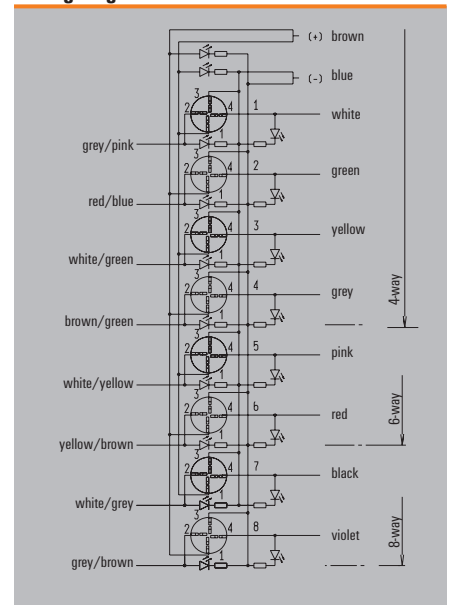
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	2
Protection degree	IP67
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram



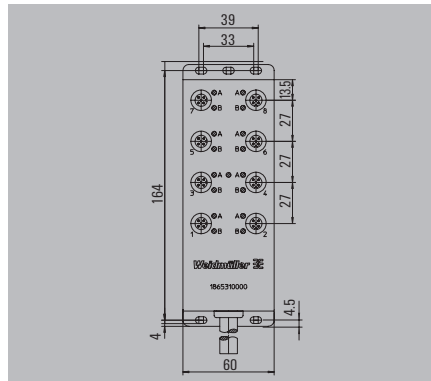
Wiring diagram



M12 VA stainless steel

**Fixed-cable version,
Specially suitable for use in
food-processing machinery**

SAI-8-F 5P M12 5M VA



Ordering data

8-channel	5 m cable length
Note	

SAI-8-F 5P M12 5M VA

5-pole

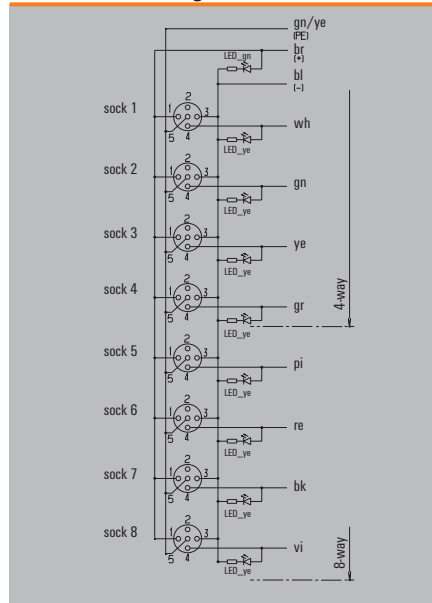
Type	QTY	Order No.
SAI-8-F 5P M12 5M VA	1	1865310000

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	12 A
Pollution severity	3
Protection degree	IP69K
Ambient temperature range	-25...70 °C
Housing main material	Stainless steel
Contact carrier material	
Base material of contacts	CuZn
Screw socket	Stainless steel
Housing colour	Silver
Fire behaviour	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Accessory (incl.): 4 protective caps for unused slots

Dimensioned drawing



Tension-clamp connection M12, stainless steel



SAIS / SAIB VA

Straight



Ordering data

Male	
	5-pole, PG 9
	5-pole, PG 9
Female	
	5-pole, PG 9
	5-pole, PG 9
Note	

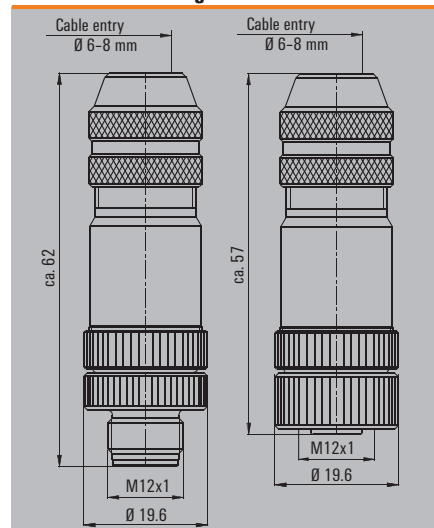
Type	QTY	Order No.
SAIS 5/9-VA	1	1920700000
SAIS 5/9-VA-B-COD	1	1920720000
SAIB 5/9-VA	1	1920710000
SAIB 5/9-VA-B-COD	1	1920730000
Note		

Technical data

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6.8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD)

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6.8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD)

Dimensioned drawing



Sensor-actuator distributors for special applications

All-metal SAI-4/8-FMM M12



Shielded cable, e.g. for analogue initiators

Some applications need full shielding from sensor to control. This is possible with the all metal SAI distributors. The distributors are supplied with an EMC cable gland. Initiator LEDs are omitted.

Especially thick trunk cable

It is sometimes advisable to use the machine manufacturer's standard trunk cable. This cable will usually have a relatively large outside diameter and will therefore require plenty of space (SAI-4/6/8 MHD).

All-metal fixed cable distributors

Weidmüller metal distributors have proved their worth in many situations. They are available as 4 and 8 channel M12 versions with cable lengths of 5 or 10 m. Metal distributors are also necessary when ESD requirements must be complied with.

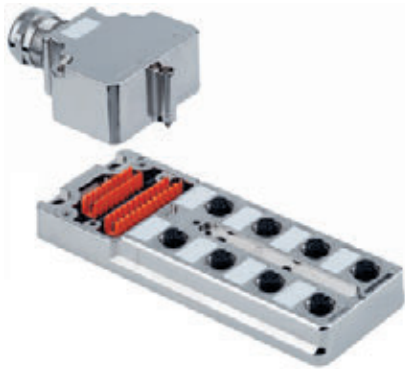
The conductive metal surface provides low surface resistance.

Advantages:

- No ESD/EMC problems
- High resistance to chemicals or mechanical loads
- Standard mounting dimensions

SAI-M with metal hood SAI-4/6/8 MMS SAI-4/6/8 MM

MMS: **M**odular, **M**etal, **S**hield
MM: **M**odular, **M**etal



SAI-4/6/8 MMS with EMC cable gland in metal housing

For especially tough conditions where plastic is totally unsuitable. In certain cases it makes sense to avoid the use of plastics altogether. In such cases a distributor made completely from metal is required that can be connected to others using metal cable glands, without additional connections for the shielding.

SAI-4/6/8 MH

MH: **M**odular, **H**igh



Cable gland: M20

For cables with outside insulation diameter from 10 mm to 14 mm. Listed below are just some of the cable sizes that are suitable for the SAI distributor with M20 cable gland:

- 14 x 0.50 mm² to 16 x 0.50 mm²
- 8 x 0.75 mm² to 15 x 0.75 mm²
- 8 x 1.00 mm² to 10 x 1.00 mm²
- 5 x 1.50 mm² to 7 x 1.50 mm²

SAI-4/6/8 MHD

MHD: **M**odular, **H**igh, sealed
(for especially thick cables)



Cable gland: M25

For cables with outside insulation diameter from 13 mm to 18 mm. Listed below are just some of the cable sizes that are suitable for the SAI distributor with M25 cable gland:

- 21 x 0.50 mm²
- 18 x 0.75 mm² to 21 x 0.75 mm²
- 14 x 1.00 mm² to 20 x 1.00 mm²
- 8 x 1.50 mm² to 16 x 1.50 mm²

Overview of metal distributors

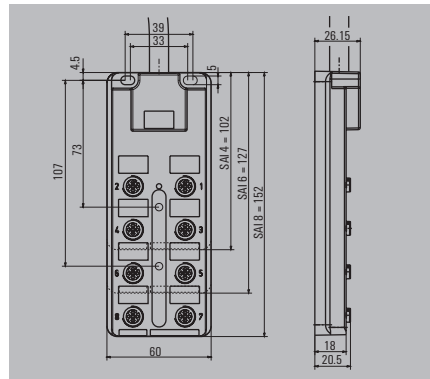
Type	SAI-UT	Sockets	M12	Poles-Hood	Form	Cable gland	Cable gland	Length	Order No.
SAI-4-MH-4P M12	PBT	4	4	Zn-G	high	M20	plastic		1705922000
SAI-6-MH-4P M12	PBT	6	4	Zn-G	high	M20	plastic		1705932000
SAI-8-MH-4P M12	PBT	8	4	Zn-G	high	M20	plastic		1705942000
SAI-4-MH-5P M12	PBT	4	5	Zn-G	high	M20	plastic		1701232000
SAI-6-MH-5P M12	PBT	6	5	Zn-G	high	M20	plastic		1701242000
SAI-8-MH-5P M12	PBT	8	5	Zn-G	high	M20	plastic		1701252000
SAI-4-MHD-5P M12	PBT	4	5	Zn-G	high	M25	plastic		1701233000
SAI-6-MHD-5P M12	PBT	6	5	Zn-G	high	M25	plastic		1701243000
SAI-8-MHD-5P M12	PBT	8	5	Zn-G	high	M25	plastic		1701253000
SAI-4-MHD-4P M12	PBT	4	4	Zn-G	high	M25	plastic		1705923000
SAI-6-MHD-4P M12	PBT	6	4	Zn-G	high	M25	plastic		1705933000
SAI-8-MHD-4P M12	PBT	8	4	Zn-G	high	M25	plastic		1705943000
SAI-4-MMS-4P M12	Zn-G	4	4	Zn-G	low	M20	EMC		1783540000
SAI-8-MMS-4P M12	Zn-G	8	4	Zn-G	low	M20	EMC		1783530000
SAI-4-MMS-5P M12	Zn-G	4	5	Zn-G	low	M20	EMC		1783520000
SAI-8-MMS-5P M12	Zn-G	8	5	Zn-G	low	M20	EMC		1783510000
SAI-4-MM-5P M12	Zn-G	4	5	Zn-G	low	M20	brass		1783500000
SAI-8-MM-5P M12	Zn-G	8	5	Zn-G	low	M20	brass		1783490000
SAI-4/6/8 MH-MH BL 3.5				Zn-G	high	M20	plastic		1724752000
SAI-4/6/8 MH-MHD BL 3,5				Zn-G	high	M25	plastic		1724753000
SAI-8-MH-5P M12 ZF III	PBT	8	5	Zn-G	high	M20	plastic		1782760000
SAI-8-MMS-5P M12 ZF III	Zn-G	8	5	Zn-G	high	M20	plastic		1782740000
SAI-4/6/8 MH-MH BL-ZF 3.5				Zn-G	high	M20	plastic		1782750000
SAI-4-FMM-4P M12 5M	Zn-G	4	4					5 m	9456190002
SAI-4-FMM-4P M12 10M	Zn-G	4	4					10 m	9456200002
SAI-8-FMM-4P M12 5M	Zn-G	8	4					5 m	9456750002
SAI-8-FMM-4P M12 10M	Zn-G	8	4					10 m	9456760002

Note: The cable outside diameter can vary from manufacturer to manufacturer. It is therefore possible that the cable glands hold other cables firmly despite a different strand lay-up. In each case, it is best to first measure the cable diameter and then choose an appropriate distributor.

M12 metal distributors

Fixed cable version

SAI-4-FMM



Ordering data

4-channel	
	5 m cable length
	10 m cable length
8-channel	
	5 m cable length
	10 m cable length
Note	

SAI-4-FMM

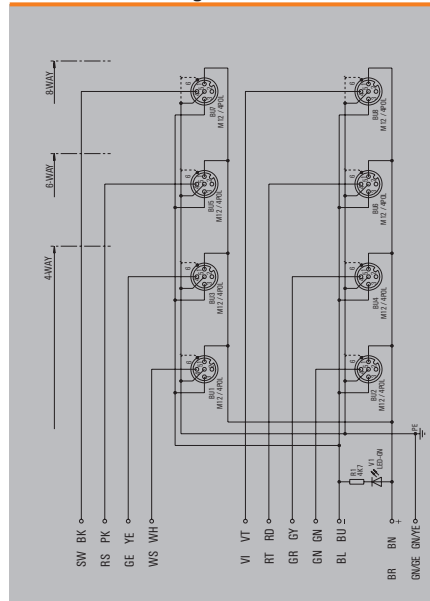
4-pole

Type	QTY	Order No.
SAI-4-FMM-4P M12 5M	4	9456190002
SAI-4-FMM-4P M12 10M	3	9456200002
SAI-8-FMM-4P M12 5M	1	9456750002
SAI-8-FMM-4P M12 10M	3	9456760002
Additional variants on request Bus cable is not shielded		

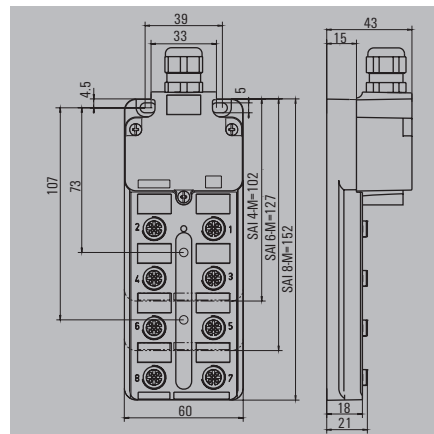
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	9 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Zinc diecast
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	Silver
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing



Hood version



Ordering data

Complete modules, 4-pole	
4 plug-in slots	
8 plug-in slots	
Complete modules, 5-pole	
4 plug-in slots	
8 plug-in slots	
Tension-clamp connection, high cover	8 plug-in slots
Base unit	
	8 plug-in slots
Mounting hood	
	Screw connection
Note	

SAI-4/6/8-MMS	M12	
Type	QTY	Order No.
SAI-4-MMS 4P M12	1	1783540000
SAI-8-MMS 4P M12	1	1783530000
<hr/>		
SAI-4-MMS 5P M12	1	1783520000
SAI-8-MMS 5P M12	1	1783510000
<hr/>		
SAI-4/6/8 MH-MM BL 3.5	1	1724754000
With EMC cable gland		

SAI-4/6/8-MM	M12	
Type	QTY	Order No.
<hr/>		
SAI-4-MM 5P M12	1	1783500000
SAI-8-MM 5P M12	1	1783490000
SAI-8-MMH 5P M12 ZF	1	1782740000
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SAI-8-MM 5P M12 UT	2	1783491000
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SAI-4/6/8 MH-MM BL 3.5	1	1724754000
MM without initiator LED and with standard metal cable gland		

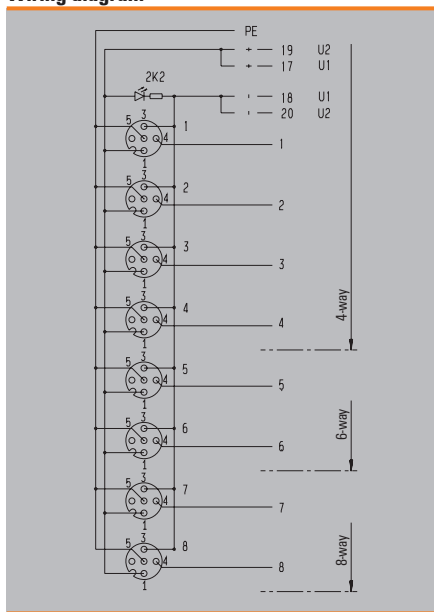
Passive distributors

H

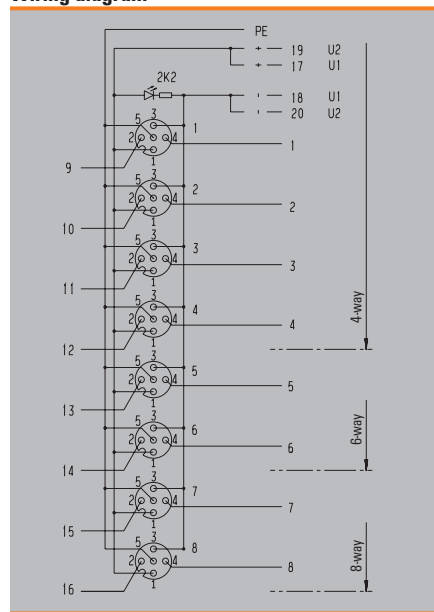
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Zinc diecast
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	Silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	
Complete shielding transmission via the housing	

Wiring diagram

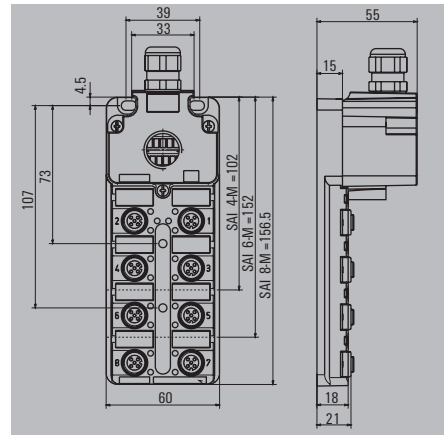


Wiring diagram



M12 metal distributors

Hood version with M20 outlet



Ordering data

Complete modules	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
Tension-clamp connection	8 plug-in slots
Mounting hood	
	Screw connection
	Tension-clamp connection
Note	

SAI-4/6/8-MH		4-pole	
Type	QTY	Order No.	
SAI-4-MH-4P M12	1	1705922000	
SAI-6-MH-4P M12	1	1705932000	
SAI-8-MH-4P M12	1	1705942000	
SAI-4/6/8 MH-MH BL 3.5	1	1724752000	
SAI-4/6/8 MH MH BLZF3,5	1	1782750000	
Other versions on request			

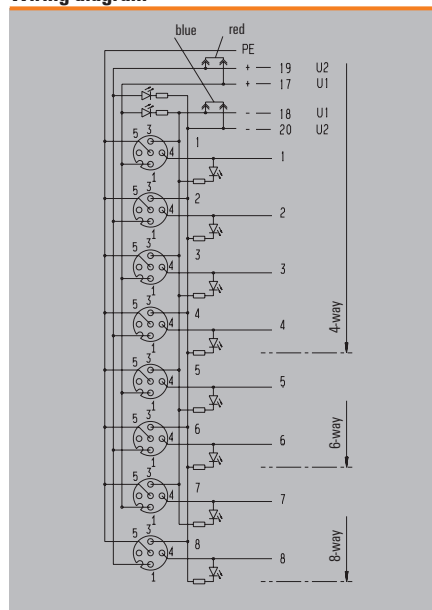
SAI-4/6/8-MH		5-pole	
Type	QTY	Order No.	
SAI-4-MH-5P M12	1	1701232000	
SAI-6-MH-5P M12	1	1701242000	
SAI-8-MH-5P M12	1	1701252000	
SAI-8-MH-5P M12 ZF III	1	1782760000	
SAI-4/6/8 MH-MH BL 3.5	1	1724752000	
SAI-4/6/8 MH MH BLZF3,5	1	1782750000	
Other versions on request			

H

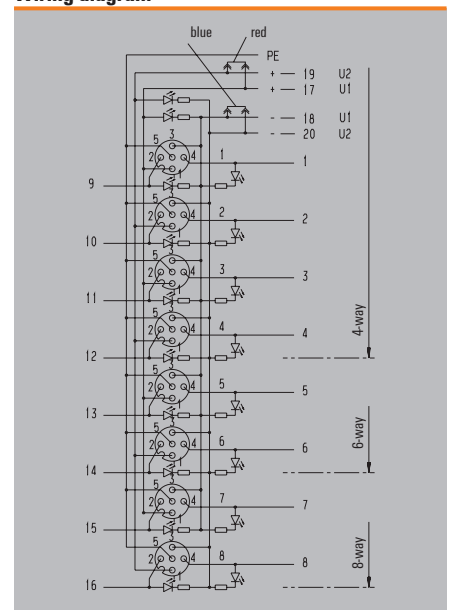
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	
Ambient temperature range	-20...90 °C
Housing main material	Pocan (base module), Zinc diecast (hood)
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	Silver
Flammability class UL 94	V-0
Clamping range of hood-version (suitable for dragline cable connection)	0.08...1.5 mm ²
With dual power supply: 2x8 = 16 A total current Clamping range up to 2.5 mm ² with screw connection	

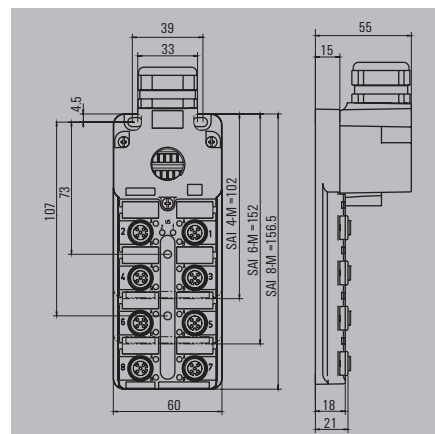
Wiring diagram



Wiring diagram



Hood version with M25 outlet



Ordering data

Complete modules	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
Mounting hood	
	Screw connection
Note	

SAI-4/6/8-MHD

4-pole

Type	QTY	Order No.
SAI-4-MHD-4P M12	1	1705923000
SAI-6-MHD-4P M12	1	1705933000
SAI-8-MHD-4P M12	1	1705943000
SAI-4/6/8 MH-MHD BL 3.5		
1 1724753000		
Other versions on request		

SAI-4/6/8-MHD

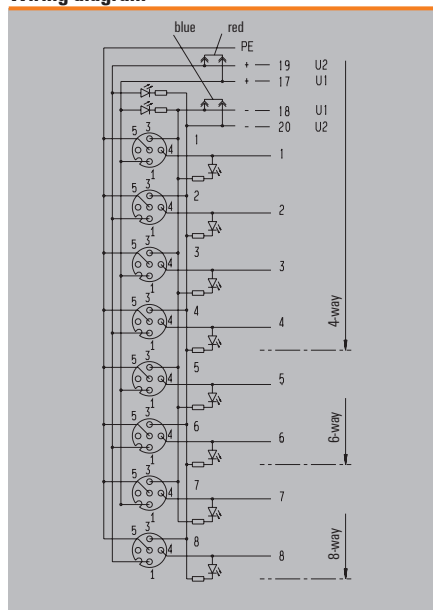
5-pole

Type	QTY	Order No.
SAI-4-MHD-5P M12	1	1701233000
SAI-6-MHD-5P M12	1	1701243000
SAI-8-MHD-5P M12	1	1701253000
SAI-4/6/8 MH-MHD BL 3.5		
1 1724753000		
Other versions on request		

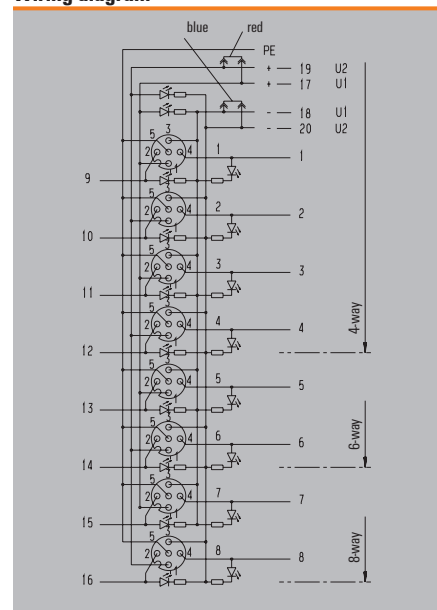
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	4 A
Total current	10 A
Pollution severity	3
Protection degree	
Ambient temperature range	-20...90 °C
Housing main material	Pocan (base module), Zinc diecast (hood)
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	Silver
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	
With dual power supply: 2x8 = 16 A total current Clamping range up to 2.5 mm ² with screw connection	

Wiring diagram



Wiring diagram



For switching with five no-voltage contacts in an M12 without LED

with hood



Emergency stop wiring

Sometimes a machine builder will need more than two floating contacts in one M12 plug-in connector. This is the case, for example, in the wiring for some “emergency stop” circuits. It was for this application that Weidmüller developed the 1:1 SAI distributor.

This SAI distributor has four M12 plug-in connectors with five floating contacts in one socket connector. The distributor is supplied complete with hood.

When connecting PT100 3- and 4-conductor initiators, we recommend the new shielded metal version. If you need other circuit configurations, simply contact us.

Note: This distributor should not be used as the base module for active bus distributors.

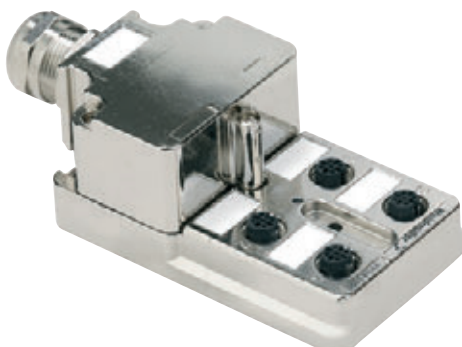
base element



Wiring diagram

Socket	Contact	BL 3.5 contact
1	1	1
1	2	2
1	3	3
1	4	4
1	5	5
2	1	6
2	2	7
2	3	8
2	4	9
2	5	10
3	1	11
3	2	12
3	3	13
3	4	14
3	5	15
4	1	16
4	2	17
4	3	18
4	4	19
4	5	20
-	-	21

metal



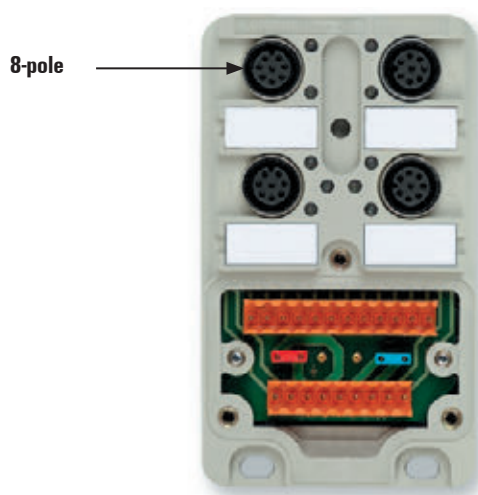
Technical data

Current per channel	2 A
Total current	8 A
LEDs	No LEDs are integrated at any point.

Ordering data

Type	Qty.	Order No.
SAI-4-M 5P M12 1:1 (plastic hood)	1	1806010000
Base element (plastic)	1	1806011000
SAI-4-MMS 5P M12 1:1 (metal hood)	1	1897680000

SAI distributor with 8 poles per M12



Applications

This distributor can be used both as a base module for satellite solutions (SAI-Combi) and for connecting sensors/units with more than two contacts.

Sensors, units with more than two signals in one line

As one socket in this module contains four signal paths and, in addition, two +, two - and one PE, components with more than two signal lines can be connected to this module. Eight-pole connecting cables are available on request.

Wiring

M12 socket	M12 contact	BL 3.5 connection	PLC input	Supply
1	1	1	E0.0	
1	2	3	E0.1	
1	3	5	E0.2	
1	4	7	E0.3	
2	1	2	E0.4	
2	2	4	E0.5	
2	3	6	E0.6	
2	4	8	E0.7	
3	1	9	E1.0	
3	2	11	E1.1	
3	3	13	E1.2	
3	4	15	E1.3	
4	1	10	E1.4	
4	2	12	E1.5	
4	3	14	E1.6	
4	4	16	E1.7	
1/3	5	17		24 V
2/4	5	19		24 V
1/3	6/7	18		0 V
2/4	6/7	20		0 V
1/2/3/4	8	PE		PE

The jumpers in the distributor enable the potentials of 17 and 19 or 18 and 20 to be bridged. Contacts 6 and 7 are bridged in the 8-pole M12 in order to increase the current-carrying capacity, total current per M12: 2 A, signal current per pin: 1 A

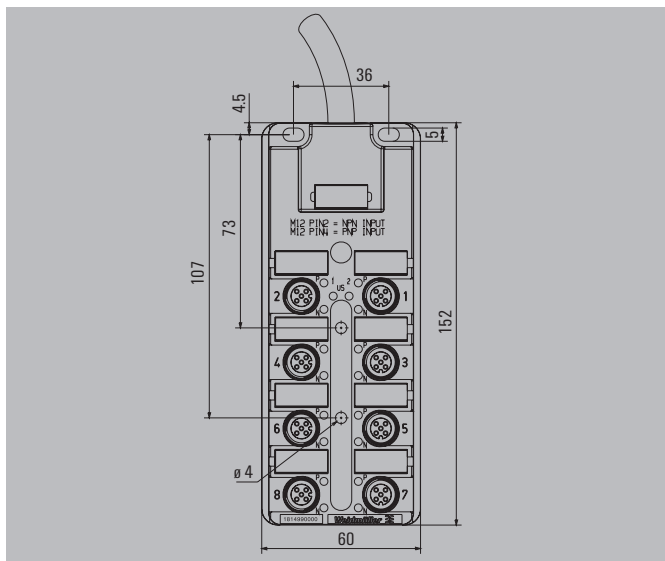
Ordering data

Type	Qty.	Order No.
Complete module: SAI-4-M 8P M12	1	1807640000
Base separate: SAI-4-M M12 UT	1	1807641000
Matching hood passive: SAI-4/6/8-MH-BL3.5	1	1724750000

Technical information: The distributor does not include any signalling LEDs. Supply LEDs and electrical isolation are provided

Fixed cable version

Fixed cable version



This distributor includes the option of attaching either a PNP sensor or an NPN sensor with 2 or 3 conductor connection to an M12 socket.

Eight inputs are available in total. In the case of a switched sensor, a + signal on the corresponding wire is connected through and the appropriate LED is illuminated.

The upper LED "N" is illuminated for NPN sensors and the lower LED "P" for PNP sensors. Do not connect a T-piece to the M12 socket.

The existing M12 plug-in connectors are wired in such a manner that the PNP sensor can be connected to pin 4 and the NPN sensor to pin 2.

The distributor has eight channels and 5 m of cable. Other versions are also available.

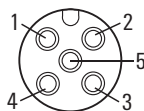
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Pin assignment

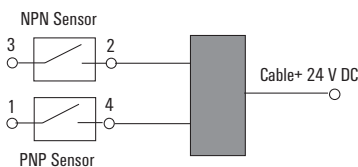
M12 socket	Pin	Function	Pin	Function	Output	Wire colour	Wire size
1	4	PNP	2	NPN	1	white	0.34 mm ²
2	4	PNP	2	NPN	2	green	0.34 mm ²
3	4	PNP	2	NPN	3	yellow	0.34 mm ²
4	4	PNP	2	NPN	4	grey	0.34 mm ²
5	4	PNP	2	NPN	5	pink	0.34 mm ²
6	4	PNP	2	NPN	6	red	0.34 mm ²
7	4	PNP	2	NPN	7	black	0.34 mm ²
8	4	PNP	2	NPN	8	violet	0.34 mm ²
all	1	24 V DC				brown	0.75 mm ²
all	3	0 V DC				blue	0.75 mm ²
all	5	PE				green/yellow	0.75 mm ²

M12 sockets

- Pin 1 = +24 V DC
- Pin 2 = NPN Input
- Pin 3 = 0 V DC
- Pin 4 = PNP Input
- Pin 5 = PE



Wiring diagram (schematic)



Technical data

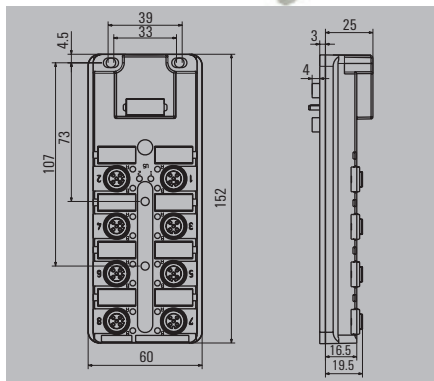
Operating voltage	24 V DC ±20 %
Operation temperature	0...80 °C
Storage temperature	-25...80 °C
Ingress protection class	IP 68
PUR cable	5 m
Max. no-load current for 2-wire NPN sensors	2 mA DC

Ordering data

Type	Qty.	Order No.
SAI-8-F 5P NPN-PNP 5M	1	1814990000

Wall bushing

SAI-8-B 5P M12 SL



Ordering data

Note

SAI-8-B 5P M12 SL

5-pole

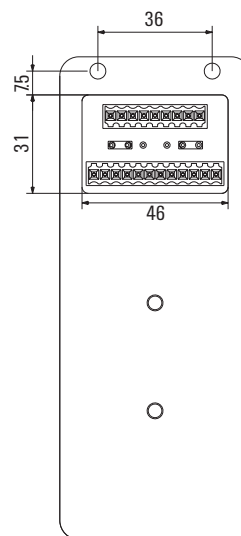
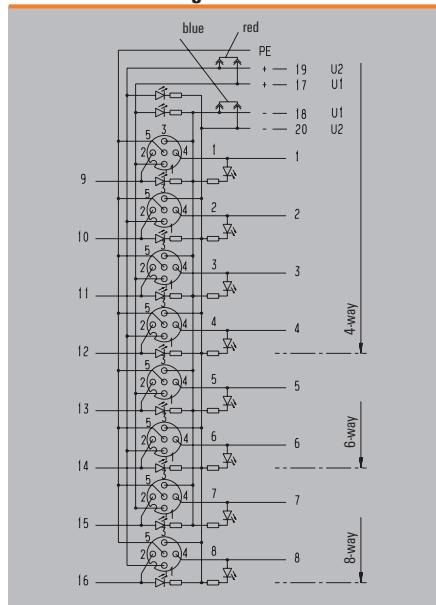
Type	QTY	Order No.
SAI-8-B 5P M12 SL	1	1847560000

BL 3.5 connector included in delivery

Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	3 A
Total current	10 A
Pollution severity	3
Protection degree	IP65
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	

Dimensioned drawing



Overview

Distributors for system cabling

On site distribution is becoming more important. For example, in some places the IP 20 I/O module has to be mounted in housings directly on the machine. This is where a simplified form of wiring is essential.

Weidmüller now offers two simple solutions

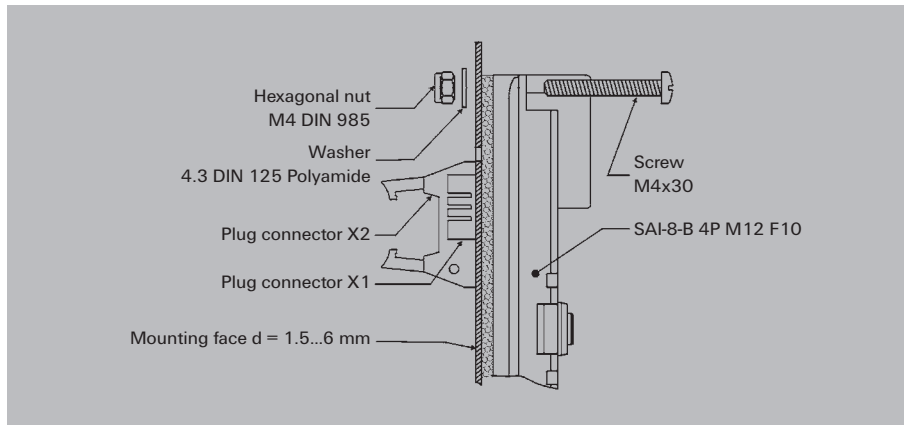
- A distributor equipped at the rear with a standardised ribbon cable connector, which is compatible with the Weidmüller PLC system interface.
- Weidmüller also offers a unique solution for feeding bus cables through panels that can be plugged in from both sides.



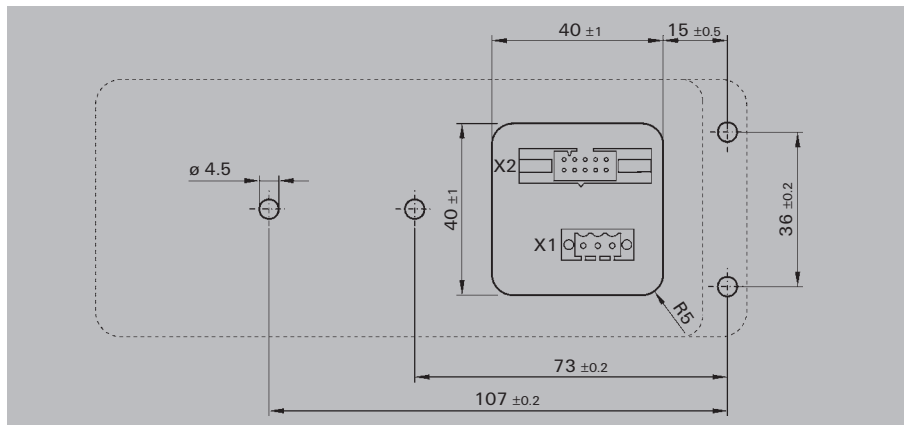
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Advantages

- Sensors and actuators can be plugged in from outside
- Through-panel version can be mounted in cut outs in steel panels
- Standardised ribbon cable connector inside
- Plus: M12 through-panel feed that can be plugged in from both sides



Drilling template



Advantages of system cabling

Fast

- Time saving installation
- Reduces commissioning and trouble-shooting times
- On site wiring cuts wiring costs

Safe

- Reduces installation errors
- Using system cables instead of individual wires improves clarity in control cabinets
- Direct marking corresponding to the PLC

Variability

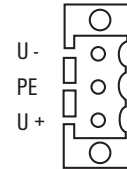
- Additional I/O modules available
- Cable length options
- Easy replacement of I/O interfaces provides flexibility

Contact assignment

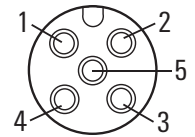
Male connector X1

M12 socket		Male connector X1
1 ... 8	Pin 1	U +
1 ... 8	Pin 3	U -
1 ... 8	Pin 5	PE

Male connector X1



M12 socket

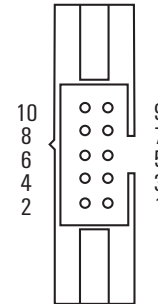


Contact assignment

Male connector X2

M12 socket		Male connector X2
1	Pin 4	1
2	Pin 4	2
3	Pin 4	3
4	Pin 4	4
5	Pin 4	5
6	Pin 4	6
7	Pin 4	7
8	Pin 4	8
1 - 8	Pin 1	9
1 - 8	Pin 3	10

Male connector X2



Note:

You will find further products for Interface units and PLC solutions in the Electronic catalogue 4.5.

Technical data

Operating voltage	
Outputs	
Inputs	
Mounting conditions	
Mounting surface	
Surface temperature	
Ingress protection class	
Fixings	
Note:	

10 - 30 V (DC)
max. 1 A per channel / max. 8 A in total
max. 1 A in total
sheet steel, flat, min. 1.5 mm thick, or panels with at least equivalent stability, max. 6 mm thick
max. 40 °C
IP 67/IP 68 only in conjunction with control cabinets with equivalent class of protection
4 screws + washers + nuts / torque: 0.8 Nm
Connect the male connector 3.5 (X1) when using actuators

Ordering data

Type	Qty.	Order No.
SAI-8-B 4P M12 F10	1	1812170000
BL 3.5/07/180 SN OR BX	72	1597410000

Distributor	
Male connector X1	

Pre-assembled hood version

In some cases, it can be advantageous to receive the hoods in pre-assembled form.

Here MF means: basic modules are supplied along with assembled hoods.

Here MHF are the assembled hoods only.

The wire cross-sections are $3 \times 1 \text{ mm}^2$ and $n \times 0.34 \text{ mm}^2$. The quality of conduction is identical to that of fixed cable distributors.

Technical data can be found on pages W.2 and W.9



SAI distributor with pre-assembled hood Colour-coded cable

Ordering data		4-pole
Type	Length	Order No.
8-channel		
SAI-8-MF 4P PUR 5M	5 m	1799960000
SAI-8-MF 4P PUR 10M	10 m	1789190000

Ordering data		5-pole
Type	Length	Order No.
4-channel		
SAI-4-MF 5P PUR 5M	5 m	1804600000
SAI-4-MF 5P PUR 10M	10 m	1804580000
8-channel		
SAI-8-MF 5P PUR 5M	5 m	1804590000
SAI-8-MF 5P PUR 10M	10 m	9457430000

Pre-assembled hood Colour-coded cable

Ordering data		4-pole
Type	Length	Order No.
SAI-4/6/8-MHF 4P PUR 4M	4 m	1791450400
SAI-4/6/8-MHF 4P PUR 6M	6 m	1791450600
SAI-4/6/8-MHF 4P PUR 9M	9 m	1791450900
SAI-4/6/8-MHF 4P PUR 14M	14 m	1791451400
SAI-4/6/8-MHF 4P PUR 20M	20 m	1791452000
SAI-4/6/8-MHF 4P PUR 28M	28 m	1791452800
SAI-4/6/8-MHF 4P PUR 34M	34 m	1791453400

Matching base module

Type	Qty.	Order No.
SAI-4-M-4PM12UT	1	1705921000
SAI-6-M-4PM12UT	1	1705931000
SAI-8-M-4PM12UT	1	1705941000

Pre-assembled hood

Ordering data		5-pole
Type	Length	Order No.
SAI-4/6/8-MHF 5P PUR 4M	4 m	1791460400
SAI-4/6/8-MHF 5P PUR 6M	6 m	1791460600
SAI-4/6/8-MHF 5P PUR 9M	9 m	1791460900
SAI-4/6/8-MHF 5P PUR 10M	10 m	1791461000
SAI-4/6/8-MHF 5P PUR 14M	14 m	1791461400
SAI-4/6/8-MHF 5P PUR 16M	16 m	1791461600
SAI-4/6/8-MHF 5P PUR 20M	20 m	1791462000
SAI-4/6/8-MHF 5P PUR 28M	28 m	1791462800
SAI-4/6/8-MHF 5P PUR 34M	34 m	1791463400
SAI-4/6/8-MHF 5P PUR 40M	40 m	1791464000
SAI-4/6/8-MHF 5P PUR 50M	50 m	1791465000
SAI-4/6/8-MHF 5P PUR 55M	55 m	1791465500

Matching base module

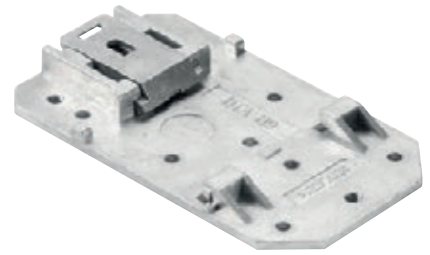
Type	Qty.	Order No.
SAI-4-M-5PM12UT	1	1701231000
SAI-6-M-5PM12UT	1	1701241000
SAI-8-M-5PM12UT	1	1701251000

Protective cap for hooded distributor, empty,
Terminal rail foot for distributor

SAI-4/6/8-MH LEER



SAI-TS35 MF



Ordering data

Mounting hood	Empty
Note	

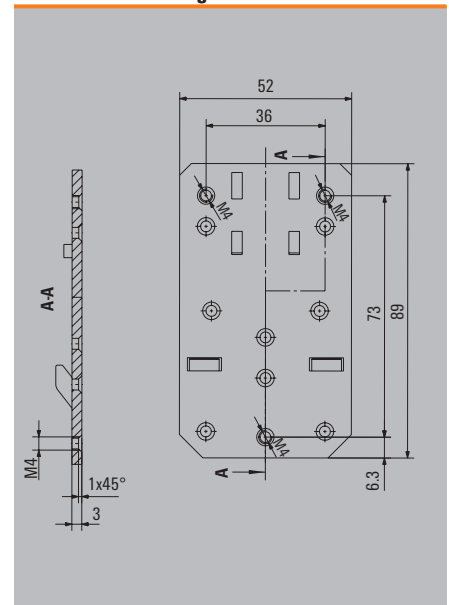
SAI-4/6/8-MH LEER

4-pole

Type	QTY	Order No.
SAI-4/6/8-MH LEER	1	1783460000

Type	QTY	Order No.
SAI-TS35 MF	1	1917400000

Dimensioned drawing



SAI-M8

Weidmüller offers two different series for the M8 range. Both of these series offer key advantages: while one is optimised for size, the other has a patented shape and protected design that make it easy to handle. The SAI M8 product line is available with up to 12 plug in slots (as a fixed-cable version) and with up to 10 plug-in slots (as a pluggable version). The housings can be screwed on from the side or from the top which makes them more versatile. They are durable and well-sealed with a sturdy, fully encapsulated construction.

These single row distributors are easy to handle; their compact shape makes them one of the smallest product solutions available on the market. The hooded distributor is a favourite from the line of ergonomic distributors (also nicknamed the hedgehog distributor). The cable outlet is customisable and can exit from the top or from the back. These distributors are also fully encapsulated.





Easily accessible

The side-mounted M8 connector ensures very convenient handling.



Directly on the PCB

Custom versions are also available. This is the PCB connection module.



Space-saving

The line version has a very small size.

Overview

Fixed cable version



Compact dimensions, readily accessible M8 connections, eye-catching design

The unconventional design of this generation of SAI M8 distributors catches the eye immediately. Their shape is helpful because in this patented design the sockets are no longer arranged in simple rows. Instead, some are on 45° bevelled surfaces. That considerably improves the accessibility of the screw connections for the sensor and actuator cables. Ease of use, compact dimensions and the eye catching design are the obvious advantages of this M8 generation.

The following variations are available:

- SAI M8 distributor with removable connection hood; the bus cable can be connected either vertically or horizontally
- SAI M8 distributor with permanently attached, pre-assembled bus cable, 5 or 10 m long; this version is particularly slim and is therefore ideal for mounting in confined spaces
- SAI M8 distributor with metal plated M23 thread

Hood version



M23 version



SAI-M8-Line

M8 distributor with M12 outlet



M8 distributor line / fixed-cable version



M8 distributor with solder pins



Extra-narrow M8 distributor for confined spaces

Single-row M8 distributors are the smallest sensor-actuator modules currently available with this thread size and it is precisely their size that is a decisive factor for applications and this form has become very popular. It is important to maintain the widest possible range of options. The SAI-M8-Line products can provide many interesting solutions:

- 4 and 6 channel modules with 8-pole M12 bus connection
- 8 and 10 channel modules with 12-pole bus connection
- 4, 10 and 12 channel distributors with fixed cable connection, the 4 and 8 channel modules also with 4 poles

It is important to note that the distributors can be labelled with the same markers as the Weidmüller 5 mm modular terminals. Therefore, no new tags have to be introduced. The modules can also be mounted sideways and are completely encapsulated.

Consequently, Weidmüller SAI distributors represent stability, robustness, flexibility and compactness - all in a single unit.

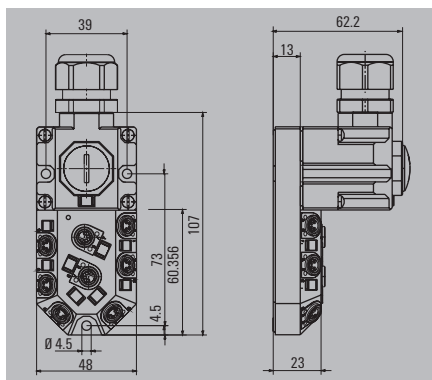
PCB version of a complete SAI distributor

During the design of PCBs, it is often necessary to plug in different external data lines. There are a variety of connectors available for this purpose. For machine construction, the M8 and M12 connectors have become established as the standard solutions for sensor and actuator wiring. When attempting to mount these PCB-type connectors to the PCB, there is a significant risk that they will not be firmly attached to the board. Now, the SL version of the SAI distributor series solves this problem. The distributor can be completely mounted onto a PCB. It features soldering pins for the electrical connection to the PCB. The distributor itself should be slightly raised up during assembly by means of washers. This provides some clearance under the box. Naturally, the power supply channels are bridged in the distributor. This saves space on the PCB since there is no need for holes on any assembly surface. Thus the reverse side can be used for other purposes.

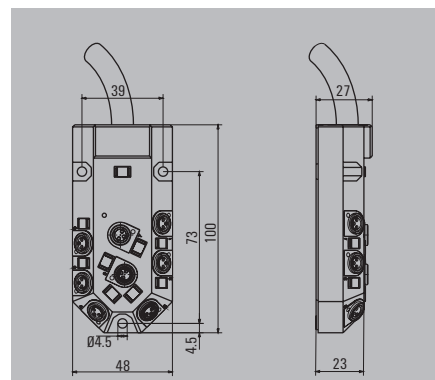
M8 distributors

Hooded/fixed cable version

SAI-4/8-M



SAI-4/8-F



Ordering data

3-pole	
Cable length 5 m (with fixed cable version)	4 plug-in slots
	8 plug-in slots
Cable length 10 m (with fixed cable version)	4 plug-in slots
	8 plug-in slots
4-pole	
Cable length 5 m (with fixed cable version)	4 plug-in slots
	8 plug-in slots
Cable length 10 m (with fixed cable version)	4 plug-in slots
	8 plug-in slots
Note	

SAI-4/8-M

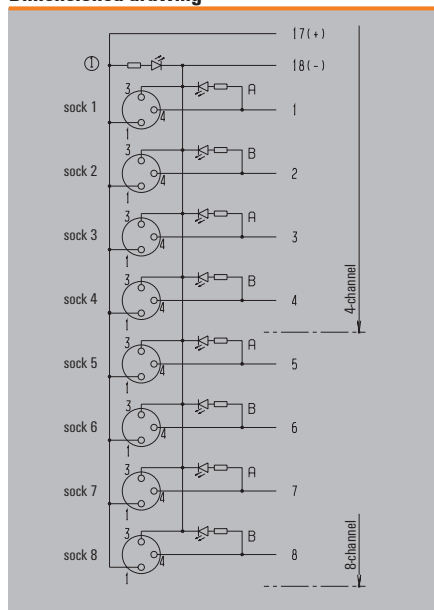
Type	QTY	M8 Order No.
SAI-4-M 3P M8	1	1784680000
SAI-8-M 3P M8	1	1784670000
SAI-4-M 4P M8	1	1784700000
SAI-8-M 4P M8	1	1784690000
Other versions on request		

Type	QTY	M8 Order No.
SAI-4-F 3P M8 PUR 5M	1	1784640000
SAI-8-F 3P M8 PUR 5M	1	1784620000
SAI-4-F 3P M8 PUR 10M	1	1784630000
SAI-8-F 3P M8 PUR 10M	1	1784610000
SAI-4-F 4P M8 PUR 5M	1	1784600000
SAI-8-F 4P M8 PUR 5M	1	1784580000
SAI-4-F 4P M8 PUR 10M	1	1784590000
SAI-8-F 4P M8 PUR 10M	1	1784570000
Other versions on request		

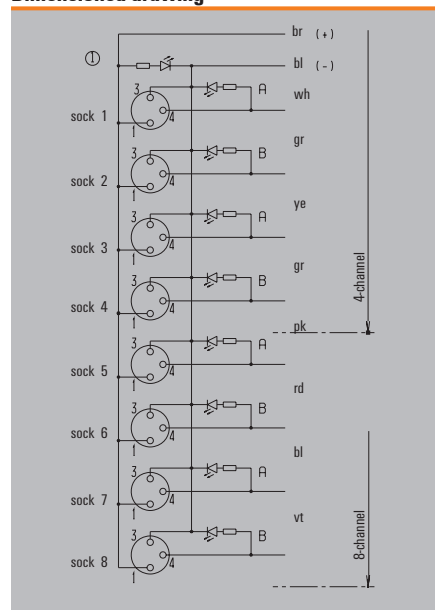
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	2 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.08...1 mm ²
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing



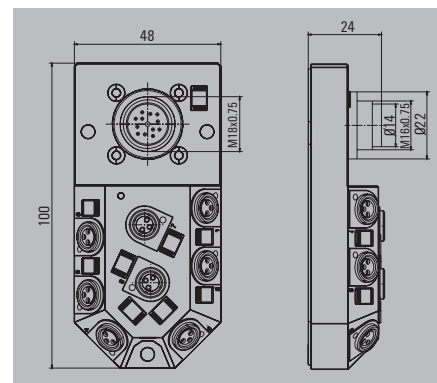
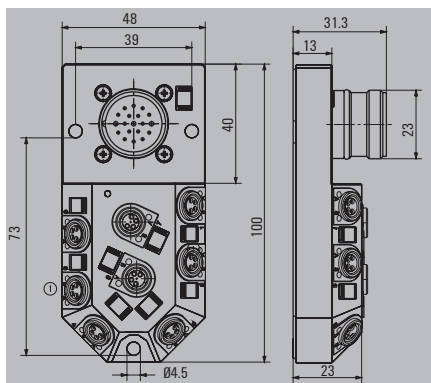
Dimensioned drawing



with M23/M16 group outlet

SAI-4/8-M23

SAI-8-M16



Ordering data

3-pole	8 plug-in slots
4-pole	4 plug-in slots 8 plug-in slots
Note	

SAI-4/8-M23

Type	QTY	M23 Order No.
SAI-4-M23 4P M8	1	1784660000
SAI-8-M23 4P M8	1	1784650000
Other versions on request		

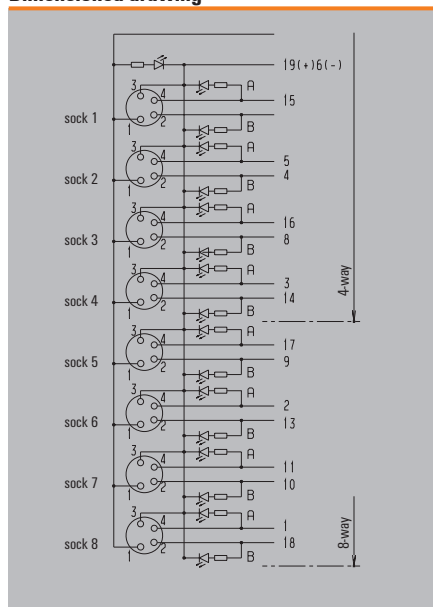
M16

Type	QTY	M16 Order No.
SAI-8-M16 3P M8	1	1795900000
Other versions on request		

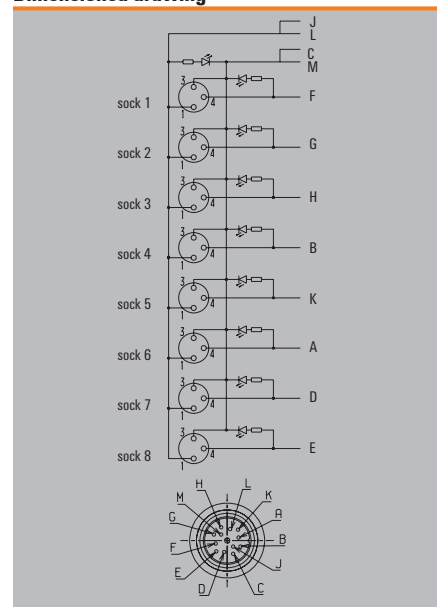
Technical data

Operating voltage	10...30 V
Current of continuous busbars	2 A
Max. current-carrying capacity per slot	2 A
Total current	8 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...90 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Dimensioned drawing



Dimensioned drawing

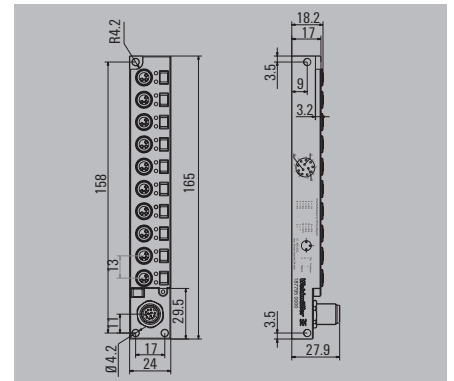
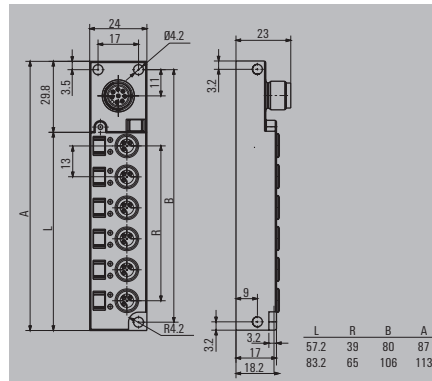


M8 distributors

Line with M12 group outlet

SAI-4/6-S

SAI-5/8-S



Ordering data

3-pole	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
	10 plug-in slots
3-pole without LED	
	4 plug-in slots
	6 plug-in slots
Note	

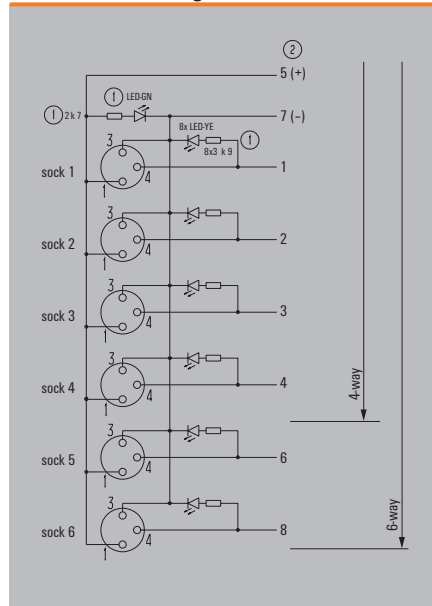
SAI-4/6-S		M12	
Type	QTY	Order No.	
SAI-4-S 3P M8 L	1	1828740000	
SAI-6-S 3P M8 L	1	1828730000	
SAI-4-S 3P M8 L OL	1	1051760000	
SAI-6-S 3P M8 L OL	1	1932380000	
Other versions on request			

		M12	
Type	QTY	Order No.	
SAI-8-S12 3P M8 L	1	1871680000	
SAI-10-S12 3P M8 L	1	1877950000	
Other versions on request			

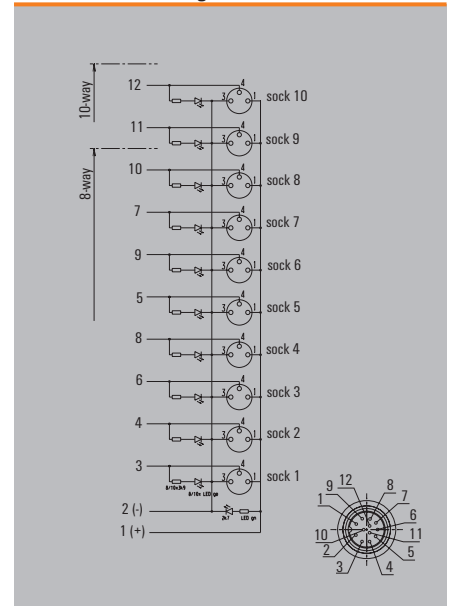
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing

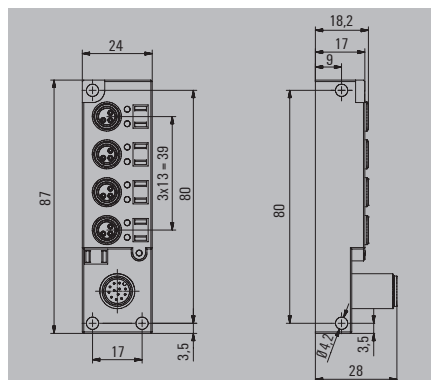


Dimensioned drawing



Line
1:1
with M12 group outlet

SAI-4-S12 M8 L 1:1



Ordering data

3-pole	4 plug-in slots
Note	

SAI-4-S12 M8 L 1:1

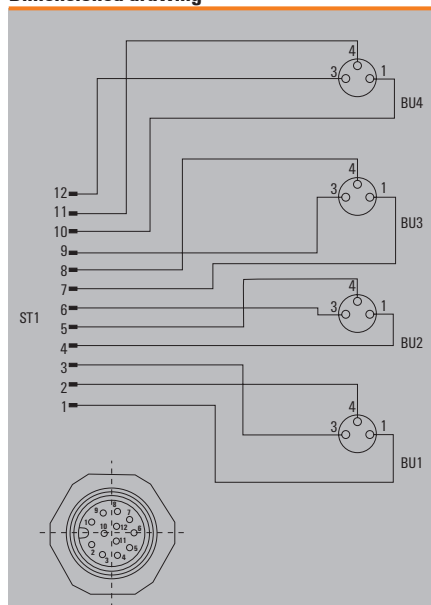
M12

Type	QTY	Order No.
SAI-4-S12 M8 L 1:1	2	1449400000

Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

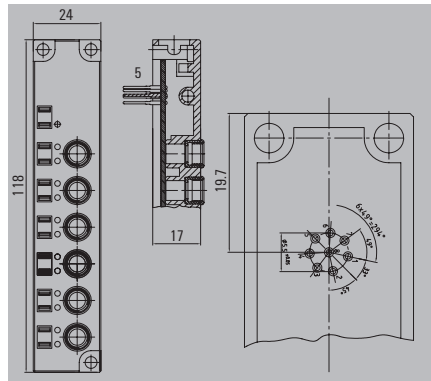
Dimensioned drawing



M8 distributors

Line
Print version

SAI-6-S M8 L SL



Ordering data

3-pole	6 plug-in slots
Note	

SAI-6-S M8 L SL

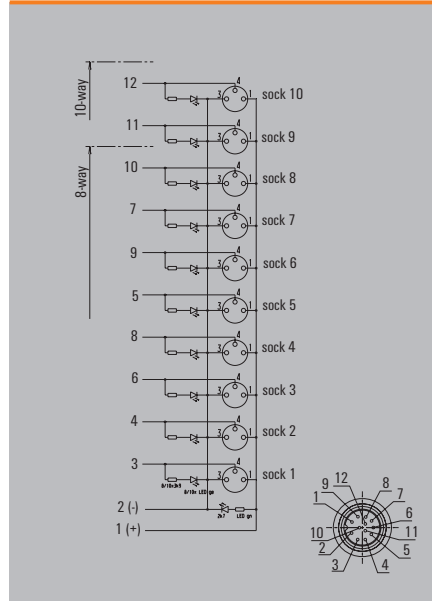
3-pole

Type	QTY	Order No.
SAI-6-S 3P M8 L SL	1	1057720000
Other versions on request		

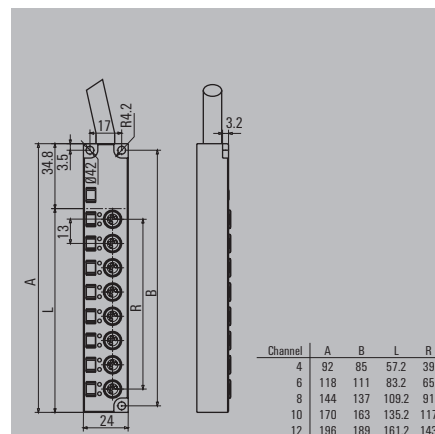
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing



Line / Fixed cable version



Ordering data

Cable length 5 m (with fixed cable version)	
4 plug-in slots	
6 plug-in slots	
8 plug-in slots	
10 plug-in slots	
12 plug-in slots	
Cable length 10 m (with fixed cable version)	
4 plug-in slots	
6 plug-in slots	
8 plug-in slots	
10 plug-in slots	
12 plug-in slots	

Note

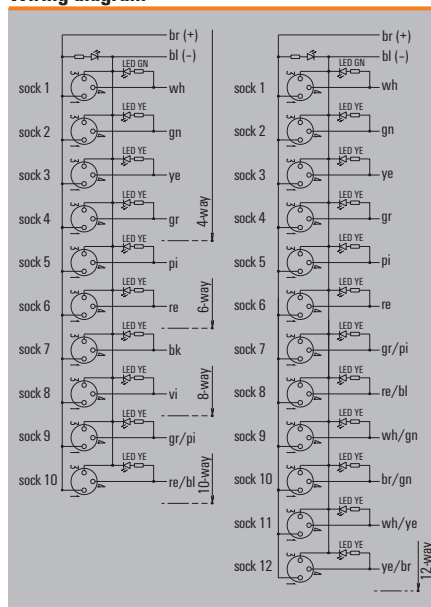
SAI-4/6/8/10/12-L		3-pole	
Type	QTY	Order No.	
SAI-4-F 3P M8 L 5M	1	1828720000	
SAI-6-F 3P M8 L 5M	1	1828700000	
SAI-8-F 3P M8 L 5M	1	1828680000	
SAI-10-F 3P M8 L 5M	1	1828660000	
SAI-12-F 3P M8 L 5M	1	1828640000	
SAI-4-F 3P M8 L 10M	1	1828710000	
SAI-6-F 3P M8 L 10M	1	1828690000	
SAI-8-F 3P M8 L 10M	1	1828670000	
SAI-10-F 3P M8 L 10M	1	1828650000	
SAI-12-F 3P M8 L 10M	1	1828630000	

SAI-4/6/8/10/12-L		4-pole	
Type	QTY	Order No.	
SAI-4-F 4P M8 L 5M	1	1849680000	
SAI-6-F 4P M8 L 5M	1	1849700000	
SAI-8-F 4P M8 L 5M	1	1828620000	
SAI-4-F 4P M8 L 10M	1	1849690000	
SAI-6-F 4P M8 L 10M	1	1849670000	
SAI-8-F 4P M8 L 10M	1	1828610000	

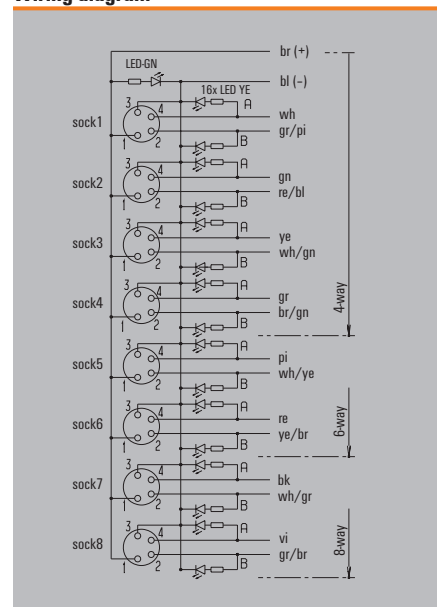
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	2 A
Total current	6 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-25...80 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Wiring diagram



Wiring diagram



Overview

M5-Line with M12 outlet



Fixed cable version



M5-Line with M16 outlet



The Weidmüller SAI-M5 distributors are currently the smallest SAI distributors in the world

Whether it is mobile phones or computers, as functionality increases, so the size of components decreases. Today, machine designers face the same problem. Space is at a premium, even in large machines, particularly where the sensor components are located. In the past the M8 distributor solved these problems. However, these units are now considered to be too large. The first move was to make the sensors smaller. Then it was the turn of the cables and distributors.

These extremely small units are surprisingly easy to handle. M5 plug in connectors have three or four poles and are thus equivalent to M8 plug-in connectors.

However, unlike the M8 plug in connectors, the different M5 pole numbers are compatible with each other. The advantage is obvious: 4 pole units which are required, for example, for antivalent sensors can now be plugged into one and the same distributor with standard NOC applications. In the M8 system special adapters are required. In addition to size, the module weight is also critical in some applications. For example, the speed of a handling machine is influenced by the weight of the moving parts. The M5 system offers outstanding benefits with its unrivalled small size and light weight.

There is no version for custom bus cable assembly for this SAI distributor, which is delivered with a plug in connection and a fixed cable connection. A compact 12 pole M12 plug in connector has been developed as a plug in connection specifically for this distributor.

This ratio of surface area to number of connections is reminiscent of the computer industry. The M16 bus connections can be integrated in the module as an option, so that the SAI M5 can be used as a combined SAI system. A Y-configuration is possible in conjunction with the M16 splitter.

The fixed cable version is particularly suitable for standard applications where the distributor is permanently installed and the electrical installation does not have to be disconnected after installation.

MM5 distributors



Quality comes in little packages...

This is the motto applied by Weidmüller when developing its M5 plug in connectors. The outstanding feature of these connectors is their tiny size. Attention has also been given to stability and good conductivity.

For a comparison of sizes, take a look at the photos on the left.

These products are ideal for handling machines where light weight and small size are vital.

Comparing the sizes



M12

M8

M5



M12

M8

M5

Marking

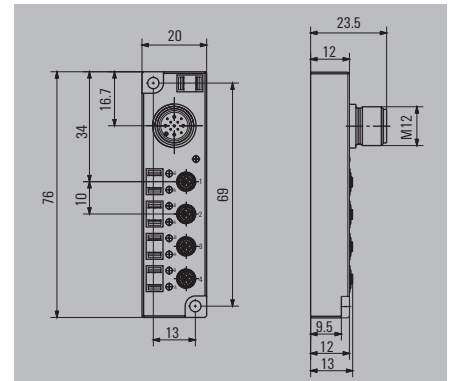
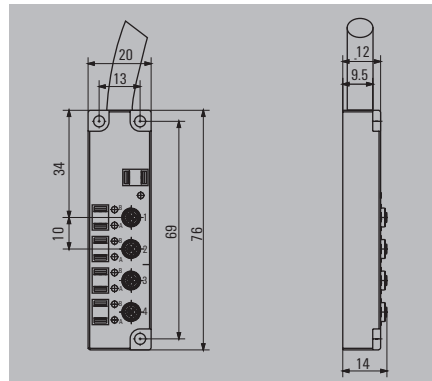
Each channel is marked with the channel number. Each initiator LED can be exactly allocated with the letters A and B. In addition, the distributor and every channel can be marked.

M5 distributors

Line

SAI-4/8-F

SAI-4/8-S



Ordering data

3-pole	
Cable length 5 m (with fixed cable version)	4 plug-in slots
	8 plug-in slots
Cable length 10 m (with fixed cable version)	plug-in slots
	8 plug-in slots
4-pole	
Cable length 5 m (with fixed cable version)	4 plug-in slots
	8 plug-in slots
Cable length 10 m (with fixed cable version)	plug-in slots
	8 plug-in slots
Note	

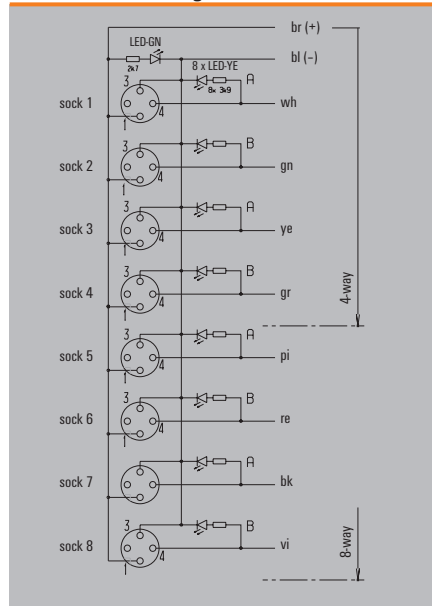
SAI-4/8-F		M5	
Type	QTY	Order No.	
SAI-4-F 3P M5 L5M	1	1851740000	
SAI-8-F 3P M5 L5M	1	1851760000	
SAI-4-F 3P M5 L10M	1	1845820000	
SAI-8-F 3P M5 L10M	1	1845830000	
Other versions on request			

		M5	
Type	QTY	Order No.	
SAI-8-S 3P M5	1	1845850000	
Other versions on request			

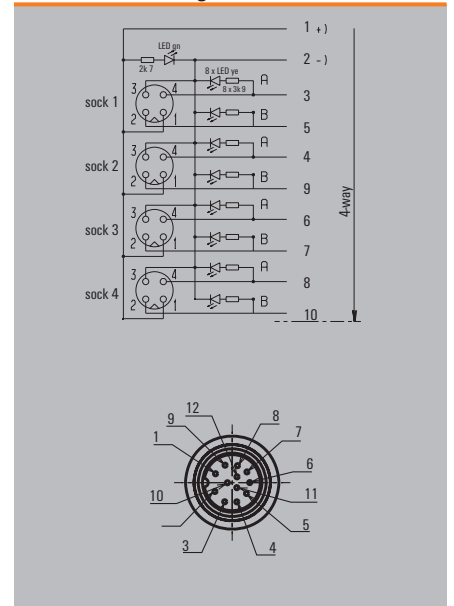
Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	3 A
Total current	3 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	Nickel-plated CuZn
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	Yes

Dimensioned drawing

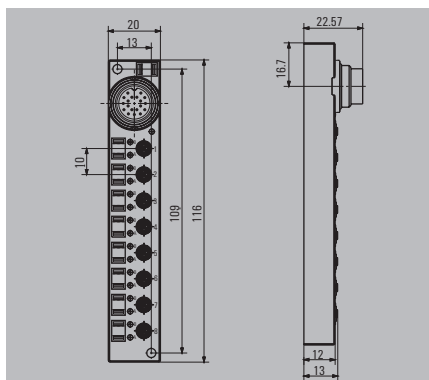


Dimensioned drawing



Line

SAI-4/8-S16



Ordering data

3-pole	4 plug-in slots 8 plug-in slots
4-pole	4 plug-in slots 8 plug-in slots
Note	

SAI-4/8-S16

M5

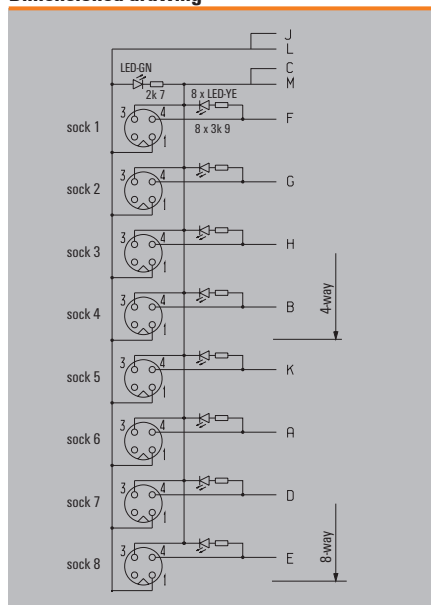
Type	QTY	Order No.
SAI-4-S16 3P M5	1	1845890000
SAI-8-S16 3P M5	1	1845880000
SAI-4-S16 4P M5	1	1845870000
SAI-8-S16/19P 4P M5	1	1845860000

1845870000, 1845880000 and 1845890000 with M16 / 12-pole
1845860000 with M16 / 19-pole

Technical data

Operating voltage	10...30 V
Current of continuous busbars	1 A
Max. current-carrying capacity per slot	3 A
Total current	3 A
Pollution severity	3
Protection degree	IP67
Ambient temperature range	-25...80 °C
Housing main material	PA 6 GF
Contact carrier material	Nickel-plated CuZn
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	...
Suitable for dragline cable (fixed cable connection)	

Dimensioned drawing



SAI Ex i distributor for Ex i zone 1

Hooded version with 4 plug-in slots



Hooded version with 8 plug-in slots



SAI distributor for Ex i zone 1

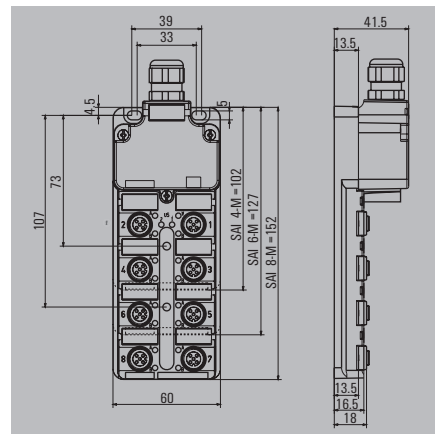
Available for the first time: passive SAI distributors with M12 connection technology in IP 68 ingress protection classification for Ex i hazardous area applications.

The SAI Ex i distributor is certified for zone 1 of potentially explosive areas, even for G and D zones.

SAI Ex i distributors are available with four or eight connections for simple connection of NAMUR sensors. This makes distribution boxes with certification a thing of the past. These modules are suitable for process engineering, but also for "standard" machine applications. The versions are available with or without yellow LEDs.

The distributors are provided with a removable connection hood. This detail also helps to reduce costs because only the defective bus cable needs to be replaced and not the entire distributor.

Hood version



Ordering data

Complete modules	
	4 plug-in slots
	6 plug-in slots
	8 plug-in slots
Without initiator LED	4 plug-in slots
Without initiator LED	8 plug-in slots
Note	

SAI-4/8-M Ex i

4-pole

Type	QTY	Order No.
SAI-4-M 4P Exi Z1 IL	1	1868360000
SAI-8-M 4P Exi Z1 IL	1	1868370000
SAI-4-M 4P Exi Z1 OL	1	1868350000
SAI-8-M 4P Exi Z1 OL	1	1894380000

SAI-4/8-M Ex ia

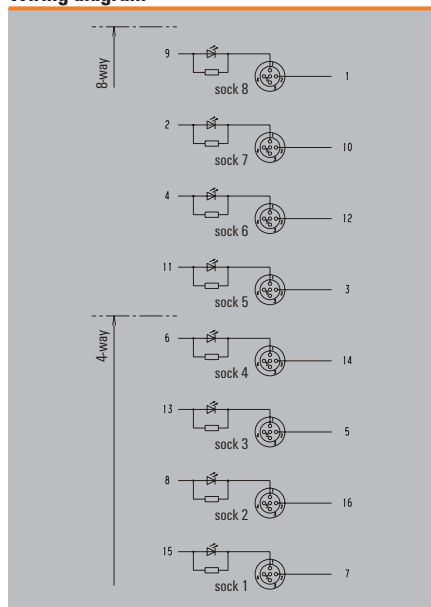
5-pole

Type	QTY	Order No.
SAI-4-M 5P M12 Ex ia	1	1896050000
SAI-6-M 5P M12 Ex ia	1	1896070000
SAI-8-M 5P M12 Ex ia	1	1896090000

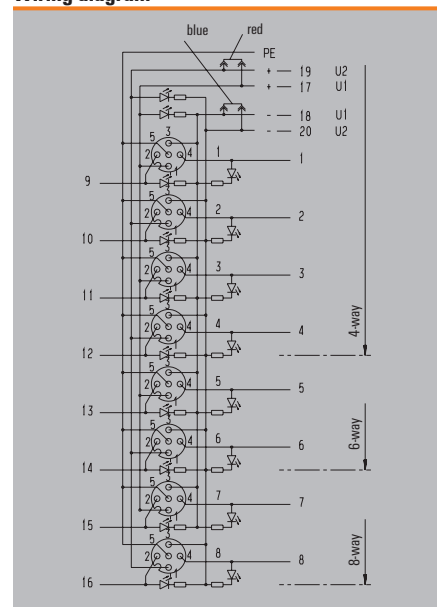
Technical data

Operating voltage	10...30 V
Current of continuous busbars	100 mA
Max. current-carrying capacity per slot	100 mA
Total current	2.3 A
Pollution severity	3
Protection degree	IP68
Ambient temperature range	-20...40 °C
Housing main material	Pocan
Contact carrier material	PBT (UL 94 V0)
Base material of contacts	CuZn
Screw socket	CuZn, nickel-plated
Housing colour	grey, RAL 7032
Flammability class UL 94	V-0
Clamping range of hood-version	0.1...1.5 mm ²
Suitable for dragline cable (fixed cable connection)	

Wiring diagram



Wiring diagram



Weidmüller Industry Light

Weidmüller Industry Light	Introduction	1.2
	Weidmüller Industry Light	1.4



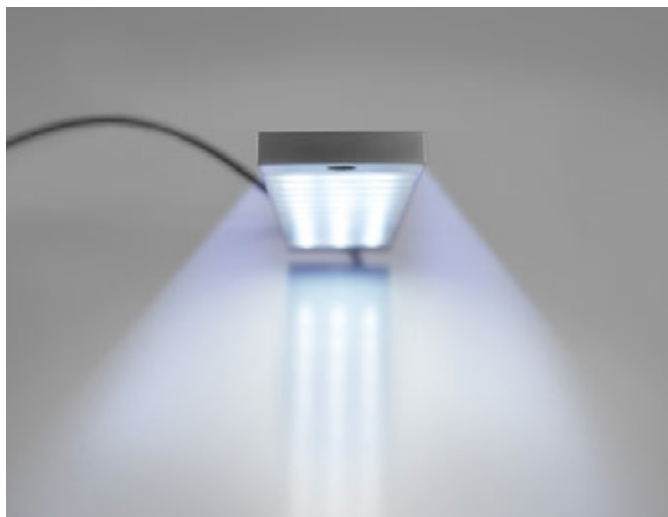
Optimum lighting for cabinet and field

Weidmüller Industry Light (WIL) – a solution for all requirements

The control cabinet is often a working area that is poorly lit. There is a demand here for a space-saving, bright yet affordable solution. The WIL all-rounder was developed in close cooperation with the industry and is the answer to its specialist requirements.

The compact LED light brightens the interior of the control cabinet with a wide cone of light or is mounted directly in the field. The mounting dimensions perfectly fit the requirements of a standard control cabinet. In addition, the high IP67 protection class and the robust enclosure make the WIL particularly suitable for industrial use.





Wide range thanks to broad beam angle

Three rows of LEDs arranged offset to one another generate a wide, trapezoidal beam angle. It produces a wide lit area without having to turn the light in a specific direction.

Concealed integration possible thanks to flat design

The WIL is easy to „conceal“ as it is just 8 mm in height. A folded edge on the control cabinet door may be sufficient to ensure the light is no longer visible from the side.

High-performance and economical

The WIL is characterised by its high luminosity and pleasant light colour which is similar to daylight. The solution is operated with 24 V DC and can be connected directly to a PLC output due to its low 420 mA consumption.

Robust and therefore durable

The enclosure made of a hard-anodised aluminium continuous cast profile with nickel-plated zinc die cast caps makes the WIL extremely robust. The area providing the lighting is therefore completely cast – without the need for an airtight area with viewing glass that can break.

Easy to connect

The pre-assembled M12 plug-in connector and 30-cm cable a plug-and-play connection can be set up for the system. No strands need to be connected separately, which makes installation considerably easier.

Protected

Thanks to the complete casting and M12 connection system, the WIL is watertight and dust-proof and can be used directly in the machine room.

Direct and easy to mount

Built-in mounting holes allow simple direct mounting. There are no additional mounting clips, so the installation height is also low.

Perfect fit for the control cabinet

The 225-mm distance between mounting holes makes installation in standard control cabinet models quick and simple.

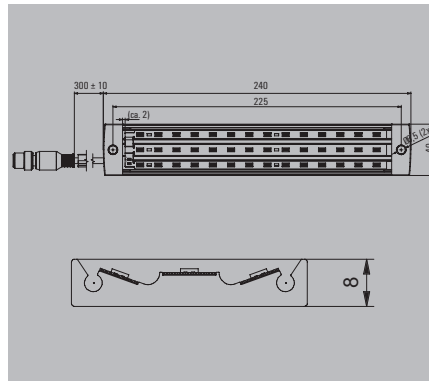


WIL – Weidmüller Industry Light

Weidmüller Industry Light

Weidmüller Industry Light

WIL Standard



Ordering data

	0.3 m cable length
Note	

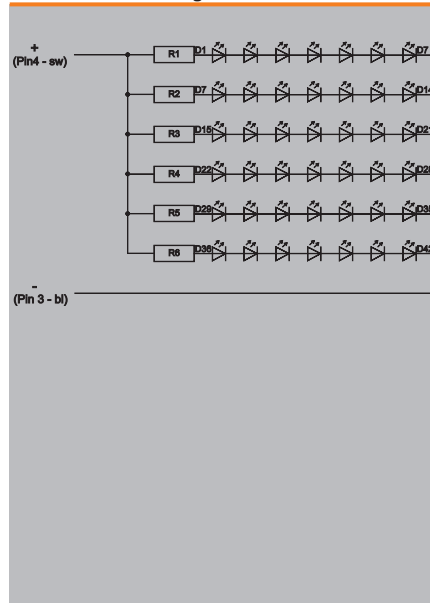
WIL Standard

Type	QTY	Order No.
WIL-STANDARD	1	2436210000

Technical data

Light colour (CCT)	6500K
Rated voltage (acc. to VDE standard 0110 ISO Group C)	24 V DC ± 10%
Rated current	420 mA
Illumination level	140 lux ± 10 lux at 1 m and 24 V
Operating life	> 10.000 h
L x W x H	225 / 40 / 8 mm
Housing main material	hard anodised aluminium
Material of end caps	Nickel-plated CuZn
Number of LEDs	52
Cable length	0.3 m
Wiring	M12: Pin 4 = connecting wire, Pin 3 = earth
Cable Material	TPE
Threaded ring material	PA
Protection degree	IP67

Dimensioned drawing



Remote I/O data line – Plug-in connectors and modules

Remote I/O data line – Plug-in connectors and modules	Introduction	J.2
	PROFIBUS-DP - cables	J.4
	PROFIBUS-DP - connectors	J.10
	PROFIBUS D-Sub - connectors	J.13
	CAN-BUS D-Sub – connectors	J.18
	PROFIBUS D-Sub – connectors	J.24
	Fieldbus distributor – Overview	J.26
	PROFIBUS-DP - FBCon T-distributor	J.28
	PROFIBUS-PA - cables	J.32
	PROFIBUS PA - connectors	J.37
	PROFIBUS-PA - FBCon T-distributor	J.40
	PROFIBUS-PA - FBCon T-distributor with surge protection	J.46
	PROFIBUS-PA - FBCon T-distributor ATEX Ex(ia)	J.52
	ASI - Cables	J.60
	ASI - T-piece	J.61
	CANopen & DeviceNet™ - cables	J.62
	CANopen & DeviceNet™ - connectors	J.66
	EtherCat - lines (M8)	J.67
	Ethernet cables	J.68
	Ethernet plug-in connector	J.76
	Customisable connectors	J.78
	Ethernet plug-in connector	J.81
	FOUNDATION Fieldbus - connector (7/8")	J.82
Accessories cable glands	J.83	

Bus cables

The bus system lies at the heart of automation engineering. High quality products are essential here, if you hope to achieve long term, smooth functionality.

It's not only the slaves and controllers that play a significant role; the type of cables and connection mechanisms in use are also very important. Weidmüller bus cables are the ideal solution. The products, which we manufacture ourselves, (used, for example, in the Profibus, Industrial Ethernet and CANopen/DeviceNet™ sectors) have a 360 degree shielding within the moulding. This provides effective protection for signal and data transmission.

Delivery times are another decisive factor. Our special production strategy allows us to quickly manufacture parts that are customised to a specific order. We have a dedicated department that is focussed on this strategy and which is located close to the Detmold central warehouse in order to keep delivery times to a minimum.

Note:

According to the PROFIBUS user organisation, PROFIBUS cables shorter than 1 m must not be avoided for transmission rates of 1.5 Mbps or higher.



Bus cables: shown here in the standard colours: blue (Profibus-PA Ex i), black (CANopen/DeviceNet or Profibus-PA), magenta (Profibus-DP) and green (Industrial Ethernet) together with the sensor cables



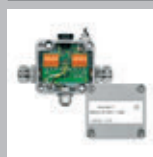
Cables



M12 plug-in connector

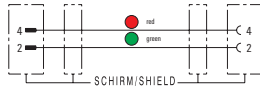
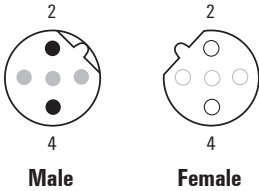


D-Sub connector



FBCon T-distributor

PROFIBUS-DP cables
Connecting cables
M12 to M12
B-coded



Ordering data

Male, straight - Female, straight	
PUR halogen-free	1.5 m
PVC/PVC	1.5 m
Male, straight - Female, angled	
PUR halogen-free	1.5 m
PVC/PVC	1.5 m
Male, angled - Female, angled	
PUR halogen-free	1.5 m
PVC/PVC	1.5 m
Note	

2-pole	
SAIL-M12GM12G-PB-1.5D	1873310150
SAIL-M12GM12G-PB-1.5E	1058570150
SAIL-M12GM12W-PB-1.5D	1062310150
SAIL-M12GM12W-PB-1.5E	1062380150
SAIL-M12WM12W-PB-1.5D	1062330150
SAIL-M12WM12W-PB-1.5E	1062400150
Other versions on request	

Standard cable lengths

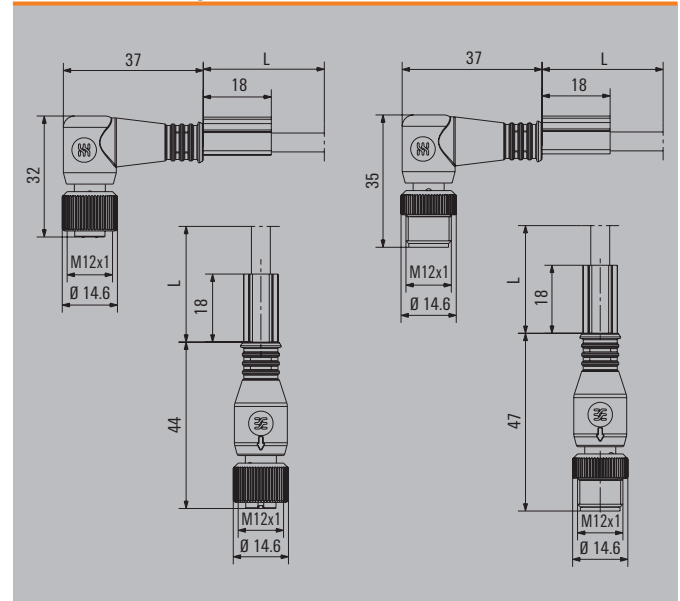
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Sheathing colour	Violet
Protection degree	IP67
Wire cross section	PUR 0.25 mm ² / PVC 0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

Chapter W includes additional technical specifications for the cable

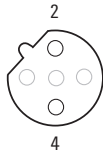
Dimensioned drawing



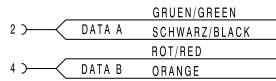
PROFIBUS-DP - cables

PROFIBUS-DP cables

One end without connector



Female



Ordering data

			2-pole		
Female, straight					
PVC/PVC	1.5 m	SAIL-M12BG-PBK38-1.5V	1431520150		
Female, angled					
PVC/PVC	1.5 m	SAIL-M12BW-PBK38-1.5V	1431510150		
Note					

J

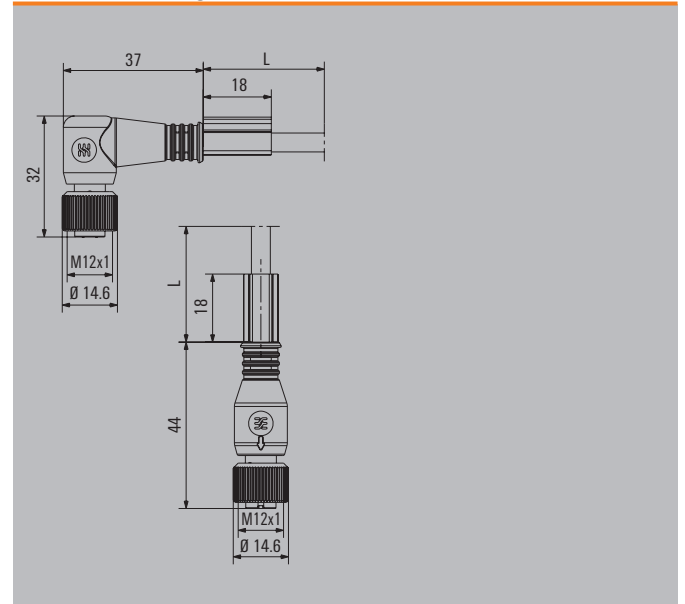
Standard cable lengths

All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

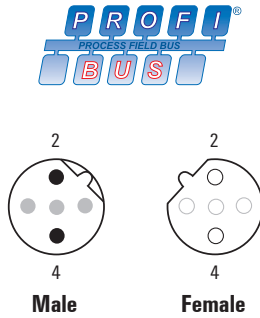
Technical data

Sheathing colour	Violet
Protection degree	IP67
Wire cross section	PUR 0.25 mm ² / PVC 0.34 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

Dimensioned drawing

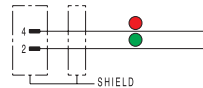


**Mounts behind wall PROFIBUS DP
B-coded, shielded**



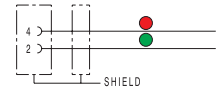
M12 built-in connector

Male, straight



M12 built-in connector

Female, straight



Technical data

Cable gland
Housing base material
Contact socket diameter
Core cross-section
Rated current
Rated voltage
Temperature range of housing
Protection degree
Contact surface
Sheath material
Tightening torque

PG9, Mounts behind wall
Zinc diecast, nickel-plated
M12
0.25 mm²
4 A
250 V
-20...+60 °C
IP 68 (when screwed in)
gold-plated
PUR halogen-free
1 Nm (to housing)

PG9, Mounts behind wall
Zinc diecast, nickel-plated
M12
0.25 mm²
4 A
250 V
-20...+60 °C
IP 68 (when screwed in)
gold-plated
PUR halogen-free
1 Nm (to housing)

Note

Ordering data

PUR halogen-free	0.5 m
PUR halogen-free	1 m
PUR halogen-free	2 m
PUR halogen-free	5 m

Note

2-pole

Type	Order No.
SAIE-M12S-PB-0.5U HW	1279490050
SAIE-M12S-PB-1.0U HW	1279490100
SAIE-M12S-PB-2.0U HW	1279490200
SAIE-M12S-PB-5.0U HW	1279490500

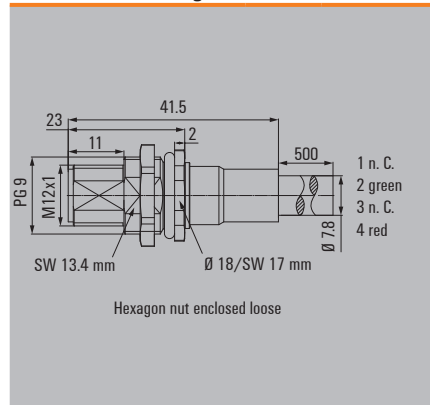
Other versions / Lengths on request

2-pole

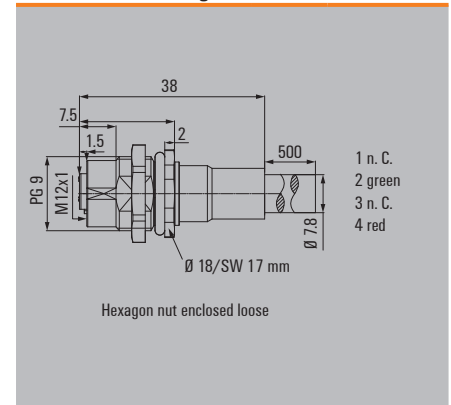
Type	Order No.
SAIE-M12B-PB-0.5U HW	1279480050
SAIE-M12B-PB-1.0U HW	1279480100
SAIE-M12B-PB-2.0U HW	1279480200
SAIE-M12B-PB-5.0U HW	1279480500

Other versions / Lengths on request

Dimensioned drawing

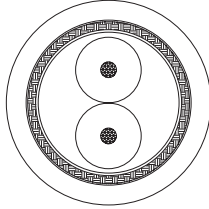


Dimensioned drawing



PROFIBUS-DP - cables

PROFIBUS-DP bulk lengths



Technical data

Assembly

Wire	
Pair	
Interior sheathing	
Shield	
Outer cladding	

Electrical characteristics at 20 °C

Conductor resistance	
Insulation resistance	
Operational capacity	
Characteristic impedance	

Attenuation

9.6 KHz	3 dB/km
38.4 KHz	5 dB/km
4 Mhz	26 dB/km
16 Mhz	55 dB/km

Test voltage (50 Hz, 1 min.)	Wire/wire 0.5 kV _{eff}
	Wire/shield 0.5 kV _{eff}

Mechanical and thermal characteristics

Temperature range	Stationary -40 °C to +70 °C
	Moving -20 °C to +60 °C
Min. permitted bending radius	Once 7.5 x d
	Multiple 15 x d
Max. tensile load resistance	Static 50 N/mm ²
	Dynamic 20 N/mm ²
Suitable for dragline cable carriers	Yes
Halogen-free	Yes

Conductor: 19-wire strands copper shiny, AWG 24, 0.64 mm Ø nominal

Insulation: PE foam, 2.55 mm Ø nominal

2 wires according to 3.2.1 (red, green) laid as a pair, 5.1 mm Ø nominal

Coil-filling interior sheathing, 5.3 mm Ø nominal

a) Overlapping aluminium film, 6.1 mm Ø nominal

b) Braided tin-plated copper, coverage approx. 65%, 6.1 Ø nominal

TPE-U free from halogens, 8.0 +/- 0.4 mm

< 84.0 Ω/km

> 1 GΩ ● km

< 35 nF/km

9.6 KHz (RW) 300 Ω

38.4 KHz (RW) 185 +/- 20 Ω

3-20 Mhz 150 +/- 15 Ω

9.6 KHz 3 dB/km

38.4 KHz 5 dB/km

4 Mhz 26 dB/km

16 Mhz 55 dB/km

Wire/wire 0.5 kV_{eff}

Wire/shield 0.5 kV_{eff}

Stationary -40 °C to +70 °C

Moving -20 °C to +60 °C

Once 7.5 x d

Multiple 15 x d

Static 50 N/mm²

Dynamic 20 N/mm²

Yes

Yes

Note

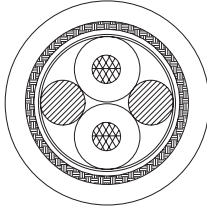
Ordering data

Metre goods

Note

Type	Order No.
SAIH-PB-2X0.24-PUR	1232620000

PROFIBUS-DP bulk lengths



Technical data

Assembly	
Wire	Conductor: copper wire, without insulation, AWG 22, 0.64 mm Ø nominal
Pair	Insulation: PE foam, 2.55 mm Ø nominal 2 wires according to 4.1 (red, green) to pair stranded, 5.1 mm Ø nominal
Interior sheathing	Plastic foil, 5.2 mm Ø nominal
Shield	a) AL foil, 5.4 mm Ø nominal b) Braiding tin-plated copper, coverage approx. 60 %, 6.0 mm Ø nominal
Outer cladding	PVC YM, 7.8 +/- 0.2 mm Ø nominal
Electrical characteristics at 20 °C	
Conductor resistance	< 55 Ω/km
Insulation resistance	> 1 GΩ ● km
Operational capacity	30 pF/m nominal
Characteristic impedance	9.6 KHz (RW) 270 Ω 38.4 KHz (RW) 185 Ω 3-20 Mhz 150 +/- 15 Ω
Attenuation	9.6 KHz 2.2 dB/km 38.4 KHz 3.4 dB/km 100 KHz 4.5 dB/km 1 Mhz 11.5 dB/km 3 Mhz 18.2 dB/km 10 Mhz 33.2 dB/km 20 Mhz 48.0 dB/km
Test voltage (50 Hz, 1 min.)	Wire/wire 1.5 kV _{eff} Wire/shield 1.5 kV _{eff}
Mechanical and thermal characteristics	
Temperature range	Stationary -40 °C to +70 °C Moving -20 °C to +70 °C
Min. permitted bending radius	Once 9 x d Multiple 18 x d
Max. tensile load resistance	Static 50 N/mm ² Dynamic 20 N/mm ²
Suitable for dragline cable carriers	No
Halogen-free	No

Note

Ordering data

	Type	Order No.
Metre goods	SAIH-PB-2X0.34-PVC	1933640000
Note		

PROFIBUS-DP - connectors

M12 tension-clamp connection, stainless steel
with shield connection
B-coded



SAIS / SAIB VA

Straight



Ordering data

Male	5-pole, PG 9
Female	5-pole, PG 9
Note	

Type	QTY	Order No.
SAIS 5/9-VA-B-COD	1	1920720000
SAIB 5/9-VA-B-COD	1	1920730000

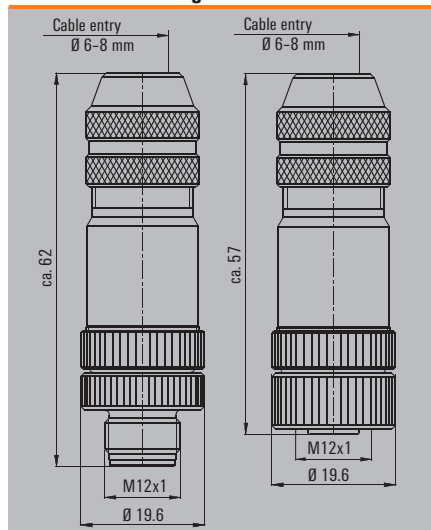
Technical data

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD)

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD)

J

Dimensioned drawing



**M12 screw connection
with shield connection
B-coded**



SAISM / SAIBM

Straight



SAISW / SAIBW

Angled



Ordering data

Male	5-pole, PG 9
Female	5-pole, PG 9
Note	

Type	QTY	Order No.
SAISM 5/8S M12 5P B-COD	1	1784790000
SAIBM 5/8S M12 5P B-COD	1	1784780000

Type	QTY	Order No.
SAISW-M-5/8 M12 B-COD	1	1944570000
SAIBW-M-5/8 M12 B-COD	1	1944580000

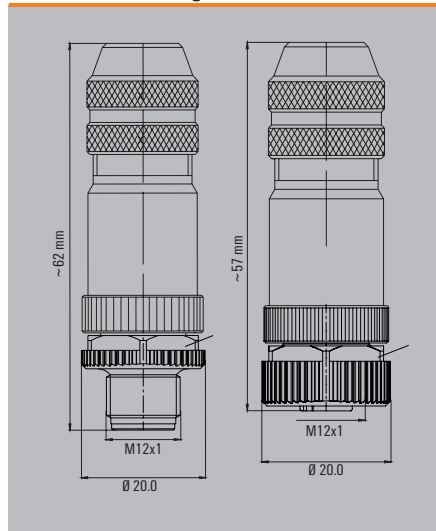
Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

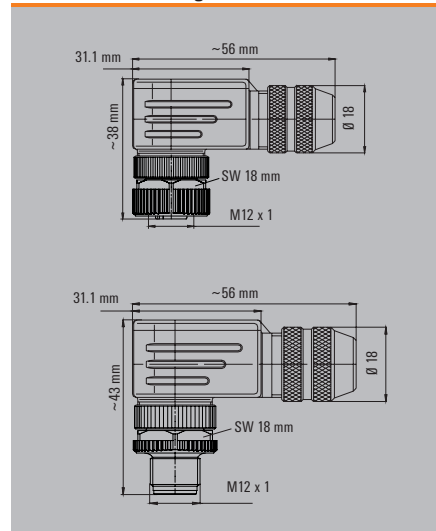
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



Dimensioned drawing



PROFIBUS-DP - connectors

Insulation displacement connection (IDC) M12
with shield connection
B-coded



SAIS / SAIB

Straight



Ordering data

Male	3-pole, PG 9
Female	3-pole, PG 9
Note	

Type	QTY	Order No.
SAIS-3-IDC-M12B-COD	1	1864730000
SAIB-3-IDC-M12B-COD	1	1864740000

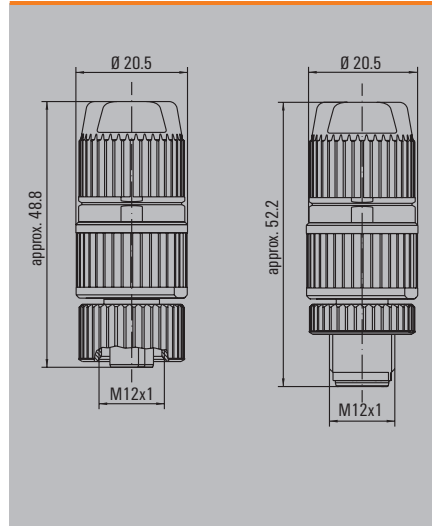
Technical data

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	7...8.8 mm
Wire cross-section, min. / max.	0.34...0.75 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	PB = PROFIBUS (B-COD) IE = Industrial Ethernet (D-COD)

Type of connection	Insulation displacement connection
Housing main material	CuZn
connection thread	M12
Cable diameter	7...8.8 mm
Wire cross-section, min. / max.	0.34...0.75 mm ²
Rated current	4 A
Rated voltage	32 V
Temperature range of housing	-25...+85 °C
Protection degree	IP67
Contact surface	tinned
Note	PB = PROFIBUS (B-COD) IE = Industrial Ethernet (D-COD)

J

Dimensioned drawing



**PROFIBUS D-sub
M12 cable connection
90° exit angle**

PB-DP SUB-D M12 TERM

With bus termination switch



PB-DP SUB-D M12 TERM PS

With bus termination switch and programming interface



Ordering data

Note

Type	QTY	Order No.
PB-DP SUB-D M12 TERM	1	1140650000
Other versions on request		

Type	QTY	Order No.
PB-DP SUB-D M12 TERM PS	1	1140640000
Other versions on request		

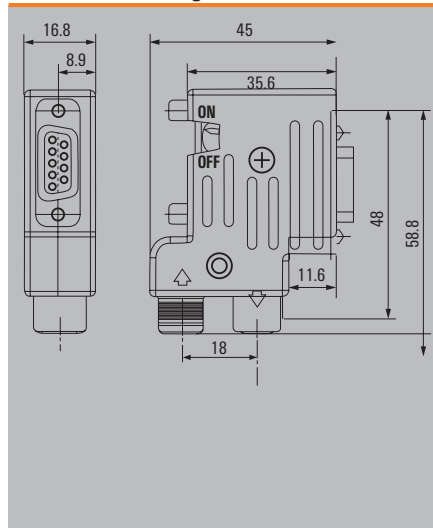
Technical data

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

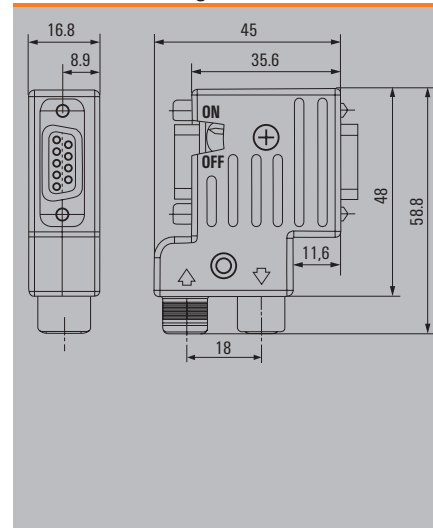
Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-Sub connector

PROFIBUS D-sub
Tension clamp connection
35° exit angle

PB-DP SUB-D ZF35TERM

With bus termination switch



PB-DP SUB-D ZF35TERM PS

With bus termination switch and programming interface



Ordering data

Type	QTY	Order No.
PB-DP SUB-D ZF35TERM	1	1173220000
Other versions on request		

Note

Technical data

Outgoing elbow	35°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 °C
Interlock	UNC4-40
Note	

Type	QTY	Order No.
PB-DP SUB-D ZF35TERM PS	1	1173240000
Other versions on request		

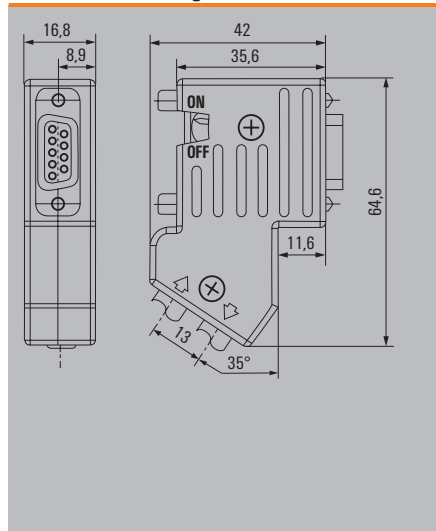
Outgoing elbow	35°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 °C
Interlock	UNC4-40
Note	

Type	QTY	Order No.
PB-DP SUB-D ZF35TERM PS	1	1173240000
Other versions on request		

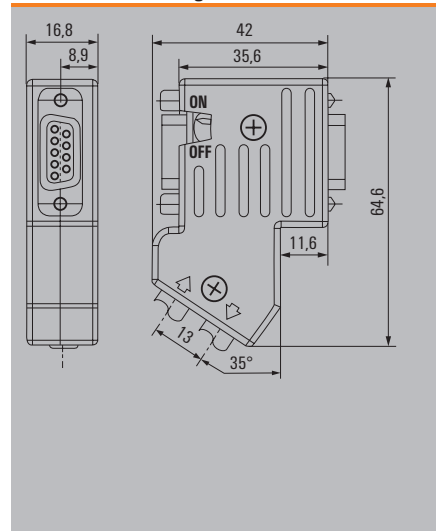
Outgoing elbow	35°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 °C
Interlock	UNC4-40
Note	

J

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-sub
Tension clamp connection
90° exit angle

PB-DP SUB-D ZF

PB-DP SUB-D ZF TERM

With bus termination switch



Ordering data

Type	QTY	Order No.
PB-DP SUB-D ZF	1	1161890000
Other versions on request		

Note

Technical data

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40

Note

Type	QTY	Order No.
PB-DP SUB-D ZF TERM	1	1161870000
Other versions on request		

Note

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40

Note

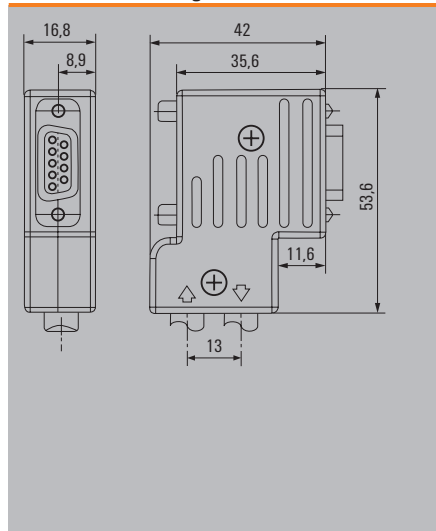
Type	QTY	Order No.
PB-DP SUB-D ZF TERM	1	1161870000
Other versions on request		

Note

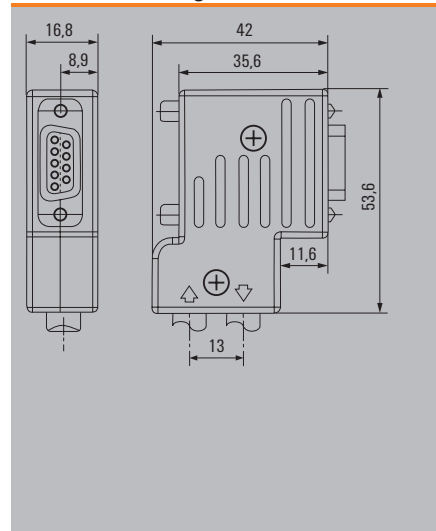
Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40

Note

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-Sub connector

PROFIBUS D-sub
Tension clamp connection
90° exit angle

PB-DP SUB-D ZF TERM PS

With bus termination switch and programming interface



Ordering data

Note

Type	QTY	Order No.
PB-DP SUB-D ZF TERM PS	1	1161880000
Other versions on request		

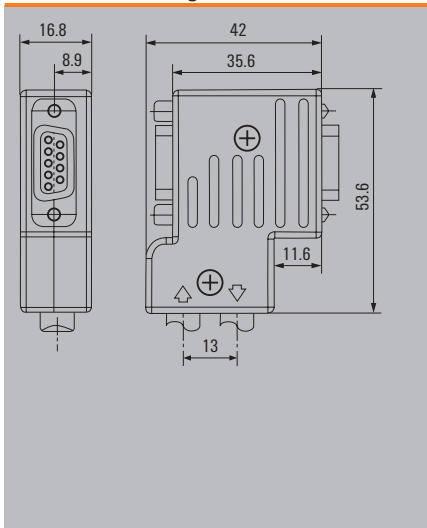
Technical data

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

90°
12 Mbit/s
Max. 75% at +25°C, non-condensing
ZnAl
Tension clamp connection
D-Sub 9-pole, Pin
IP30
In accordance with the PROFIBUS specification
≥ 200
-20...+70 ° C
UNC4-40

J

Dimensioned drawing



**PROFIBUS D-sub
M12 cable connection
180° exit angle**

PB-DP SUB-D M12 180

With bus termination switch



PB-DP SUB-D M12 180 OS



Ordering data

Note

Technical data

Outgoing elbow	180°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

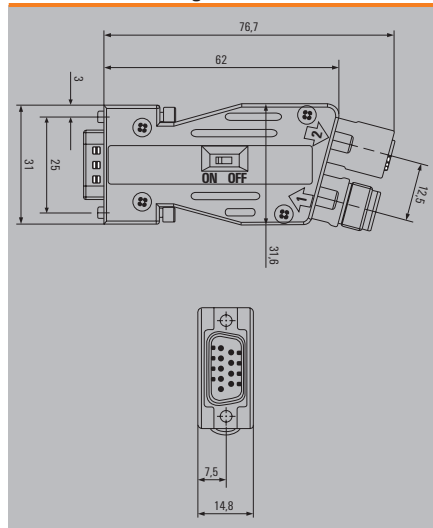
Type	QTY	Order No.
PB-DP SUB-D M12 180	1	1264180000
Other versions on request		

Outgoing elbow	180°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

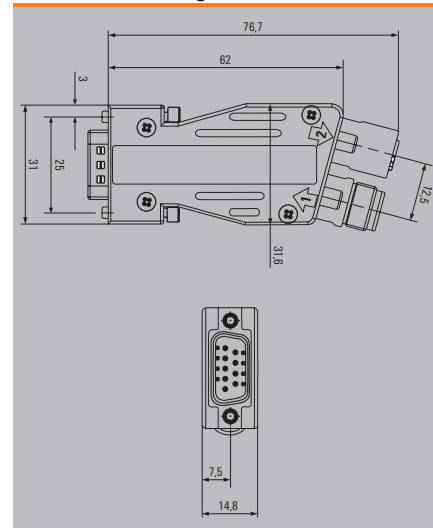
Type	QTY	Order No.
PB-DP SUB-D M12 180 OS	1	1274250000
Other versions on request		

Outgoing elbow	180°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 B-coded male and female connector, pins 2 and 4 assigned
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-Sub - connector

CAN-BUS D-sub
M12 cable connection
90° exit angle

CAN SUB-D M12 TERM

With bus termination switch



CAN SUB-D M12 TERM PS

With bus termination switch and programming interface



Ordering data

Type	QTY	Order No.
CAN SUB-D M12 TERM	1	1555270000
Other versions on request		

Note

Technical data

Outgoing elbow	90°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 A-coded, pin + socket
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	≥ 200
Plugging cycles	-20...+70 ° C
Temperature range of housing	UNC4-40
Interlock	
Note	

Type	QTY	Order No.
CAN SUB-D M12 TERM PS	1	1555280000
Other versions on request		

Note

Outgoing elbow	90°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 A-coded, pin + socket
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	≥ 200
Plugging cycles	-20...+70 ° C
Temperature range of housing	UNC4-40
Interlock	
Note	

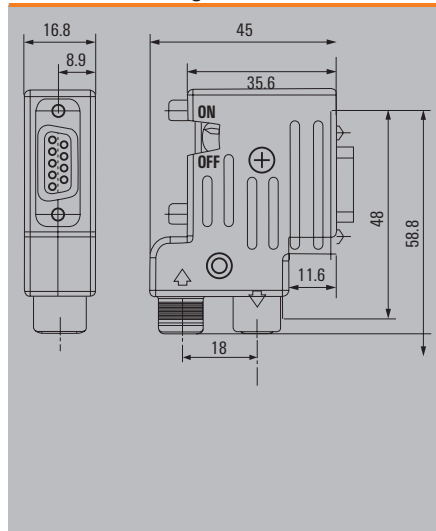
Type	QTY	Order No.
CAN SUB-D M12 TERM PS	1	1555280000
Other versions on request		

Note

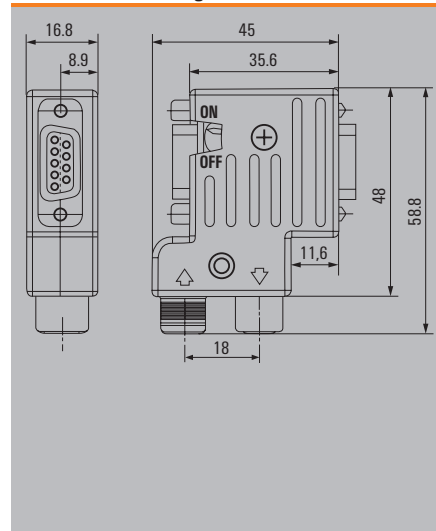
Outgoing elbow	90°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	M12 A-coded, pin + socket
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	≥ 200
Plugging cycles	-20...+70 ° C
Temperature range of housing	UNC4-40
Interlock	
Note	

J

Dimensioned drawing



Dimensioned drawing



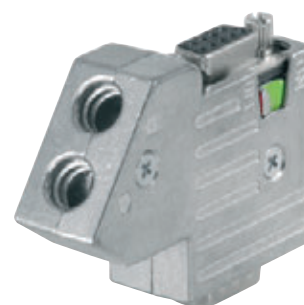
CAN-BUS D-sub
Screw connection
35° exit angle

CAN SUB-D SK35 TERM

With bus termination switch

CAN SUB-D SK35 TERM PS

With bus termination switch and programming interface



Ordering data

Type	QTY	Order No.
CAN SUB-D SK35 TERM	1	1550600000
Other versions on request		

Note

Technical data

Outgoing elbow	35°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

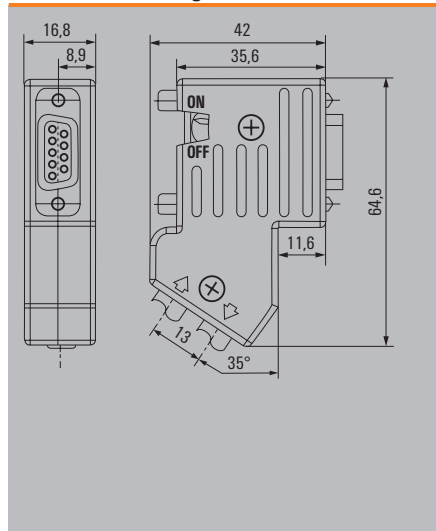
Type	QTY	Order No.
CAN SUB-D SK35 TERM PS	1	1550610000
Other versions on request		

Outgoing elbow	35°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

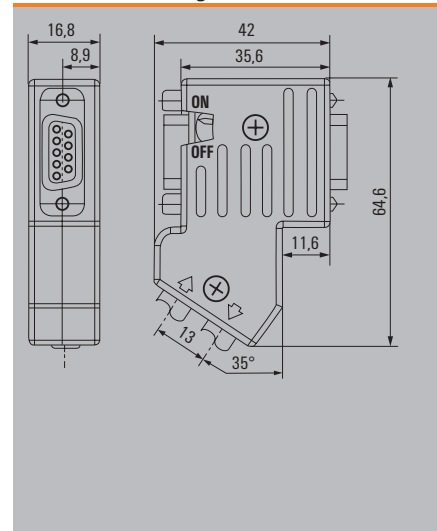
Type	QTY	Order No.
CAN SUB-D SK35 TERM PS	1	1550610000
Other versions on request		

Outgoing elbow	35°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-sub
Screw connection
90° exit angle

CAN SUB-D SK

CAN SUB-D SK TERM

With bus termination switch



Ordering data

Type	QTY	Order No.
CAN SUB-D SK	1	1555300000
Other versions on request		

Note

Technical data

Outgoing elbow	90°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	≥ 200
Plugging cycles	-20...+70 ° C
Temperature range of housing	UNC4-40
Interlock	
Note	

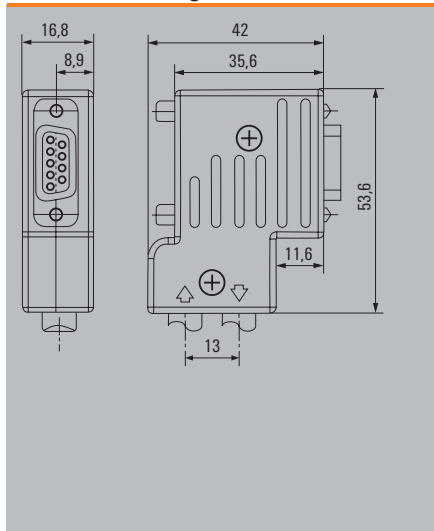
Type	QTY	Order No.
CAN SUB-D SK TERM	1	1550580000
Other versions on request		

Outgoing elbow	90°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	≥ 200
Plugging cycles	-20...+70 ° C
Temperature range of housing	UNC4-40
Interlock	
Note	

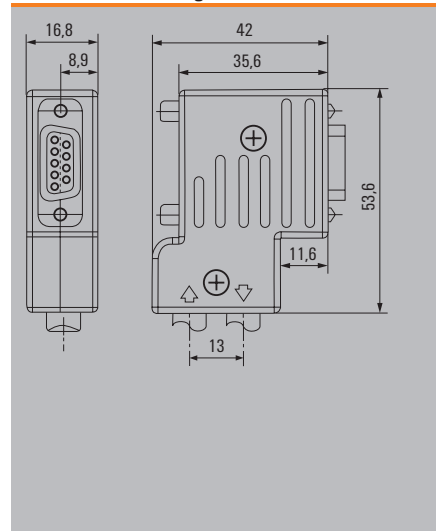
Type	QTY	Order No.
CAN SUB-D SK TERM	1	1550580000
Other versions on request		

Outgoing elbow	90°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	≥ 200
Plugging cycles	-20...+70 ° C
Temperature range of housing	UNC4-40
Interlock	
Note	

Dimensioned drawing



Dimensioned drawing



CAN-BUS D-sub
M12 cable connection
180° exit angle

CAN SUB-D M12 180 TERM

With bus termination switch



Ordering data

Note

Type	QTY	Order No.
CAN SUB-D M12 180 TERM	1	1555290000
Other versions on request		

Technical data

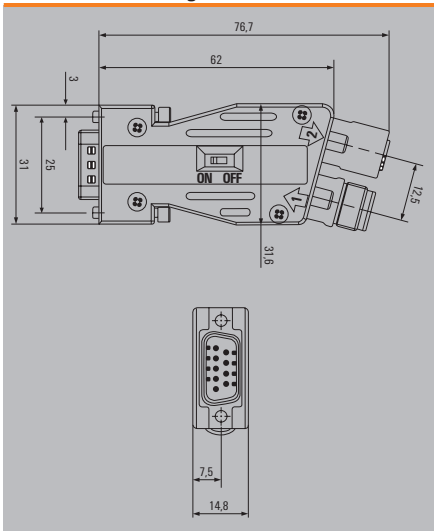
Outgoing elbow
Data rate
Humidity
Housing main material
PROFIBUS cable interface
PROFIBUS DP interface
Protection degree
Plug-in connector and pin assignment
Plugging cycles
Temperature range of housing
Interlock
Note

180°
1 Mbit/s
Max. 75% at +25°C, non-condensing
ZnAl
M12 A-coded, pin + socket
D-Sub 9-pole
IP30
≥ 200
-20...+70 ° C
UNC4-40

Remote I/O data line – Plug-in connectors and modules

J

Dimensioned drawing



CAN-BUS D-Sub - connector

CAN-BUS D-sub
Screw connection
90° exit angle

CAN SUB-D SK TERM PS

With bus termination switch and programming interface



Ordering data

Note

Type	QTY	Order No.
CAN SUB-D SK TERM PS	1	1550590000
Other versions on request		

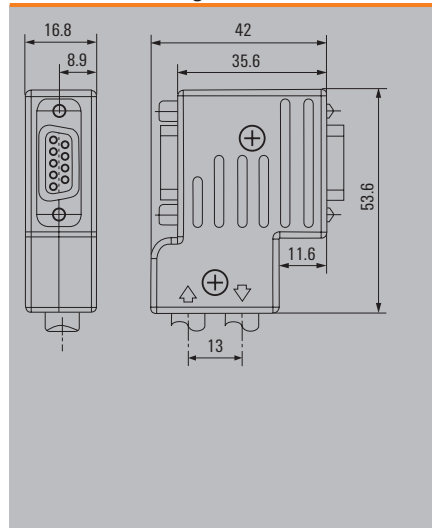
Technical data

Outgoing elbow	90°
Data rate	1 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

90°
1 Mbit/s
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole
IP30
≥ 200
-20...+70 ° C
UNC4-40

J

Dimensioned drawing



Universal D-sub plug, 9-pole
 M12 cable connection
 35° exit angle
 1:1 wired

SAI-SUB-D 9 SK35



Ordering data

Note

Type	QTY	Order No.
SAI-SUB-D 9 SK35	1	1551080000
Other versions on request		

Technical data

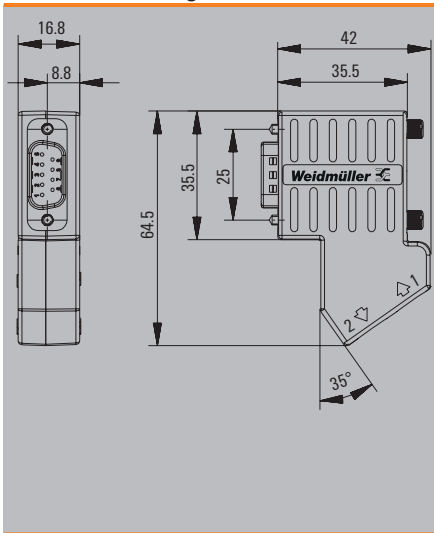
Outgoing elbow	35°
Data rate	
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	ZnAl
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole, Pin
Protection degree	IP30
Plug-in connector and pin assignment	
Plugging cycles	≥ 200
Temperature range of housing	-20...+70 ° C
Interlock	UNC4-40
Note	

35°
Max. 75% at +25°C, non-condensing
ZnAl
Screw connection
D-Sub 9-pole, Pin
IP30
≥ 200
-20...+70 ° C
UNC4-40

Remote I/O data line – Plug-in connectors and modules

J

Dimensioned drawing



PROFIBUS D-Sub connector

PROFIBUS D-sub
Screw connection
90° exit angle
Plastic

PB-DP SUB-D



PB-DP SUB-D TERM

With bus termination switch



Ordering data

Type	QTY	Order No.
PB-DP SUB-D	1	8395500000
Other versions on request		

Note

Technical data

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	PC UL 94 V-1
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP40
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	
Temperature range of housing	-25...+80 °C
Interlock	UNC4-40
Note	

Type	QTY	Order No.
PB-DP SUB-D TERM	1	8460860000
Other versions on request		

Note

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	PC UL 94 V-1
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP40
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	
Temperature range of housing	-25...+80 °C
Interlock	UNC4-40
Note	

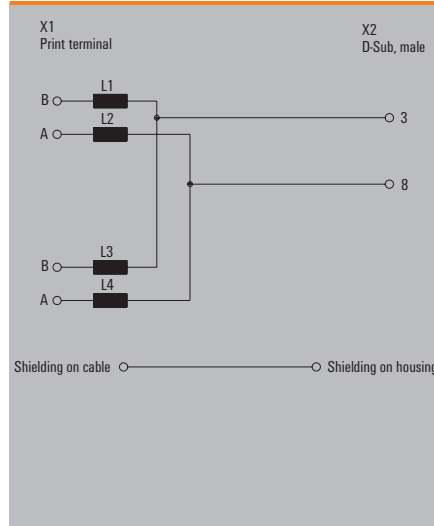
Type	QTY	Order No.
PB-DP SUB-D TERM	1	8460860000
Other versions on request		

Note

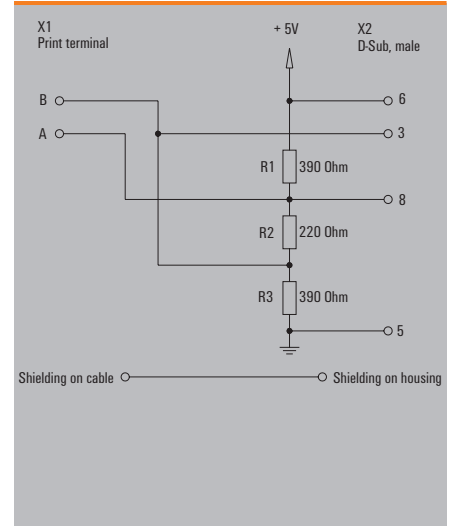
Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	PC UL 94 V-1
PROFIBUS cable interface	Screw connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP40
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	
Temperature range of housing	-25...+80 °C
Interlock	UNC4-40
Note	

J

Dimensioned drawing



Dimensioned drawing



PROFIBUS D-sub
90° exit angle
Plastic
With bus termination switch
With programming interface

PB SUB-D IDC TERM PS

With IDC connection



PB SUB-D ZF TERM PS

With tension-clamp connection



Ordering data

Type	QTY	Order No.
PB SUB-D IDC TERM PS	1	1919680000
Other versions on request		

Note

Technical data

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	PC UL 94 V-1
PROFIBUS cable interface	Insulation displacement connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP40
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	
Temperature range of housing	-25...+80 °C
Interlock	UNC4-40

Note

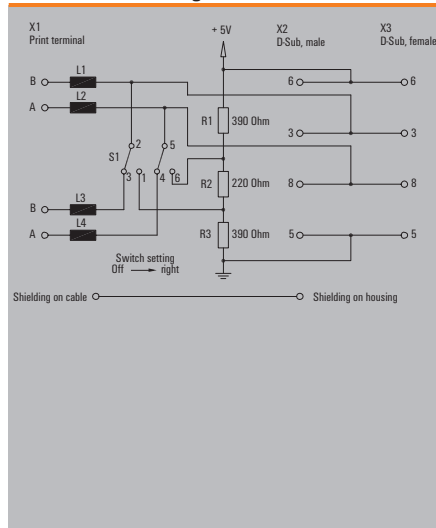
Type	QTY	Order No.
PB SUB-D ZF TERM PS	1	1934200000
Other versions on request		

Outgoing elbow	90°
Data rate	12 Mbit/s
Humidity	Max. 75% at +25°C, non-condensing
Housing main material	PC UL 94 V-1
PROFIBUS cable interface	Tension clamp connection
PROFIBUS DP interface	D-Sub 9-pole
Protection degree	IP40
Plug-in connector and pin assignment	In accordance with the PROFIBUS specification
Plugging cycles	
Temperature range of housing	-25...+80 °C
Interlock	UNC4-40

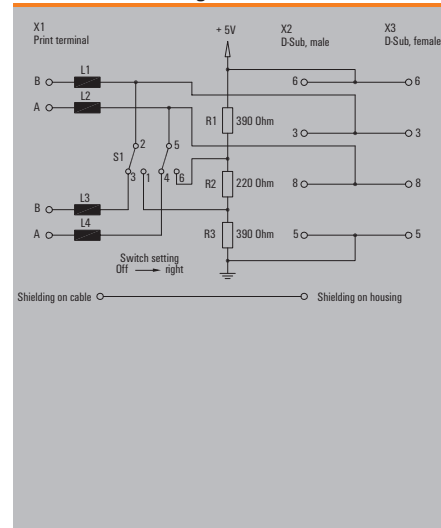
Remote I/O data line - Plug-in connectors and modules

J

Dimensioned drawing



Dimensioned drawing



System description, fieldbus distributor

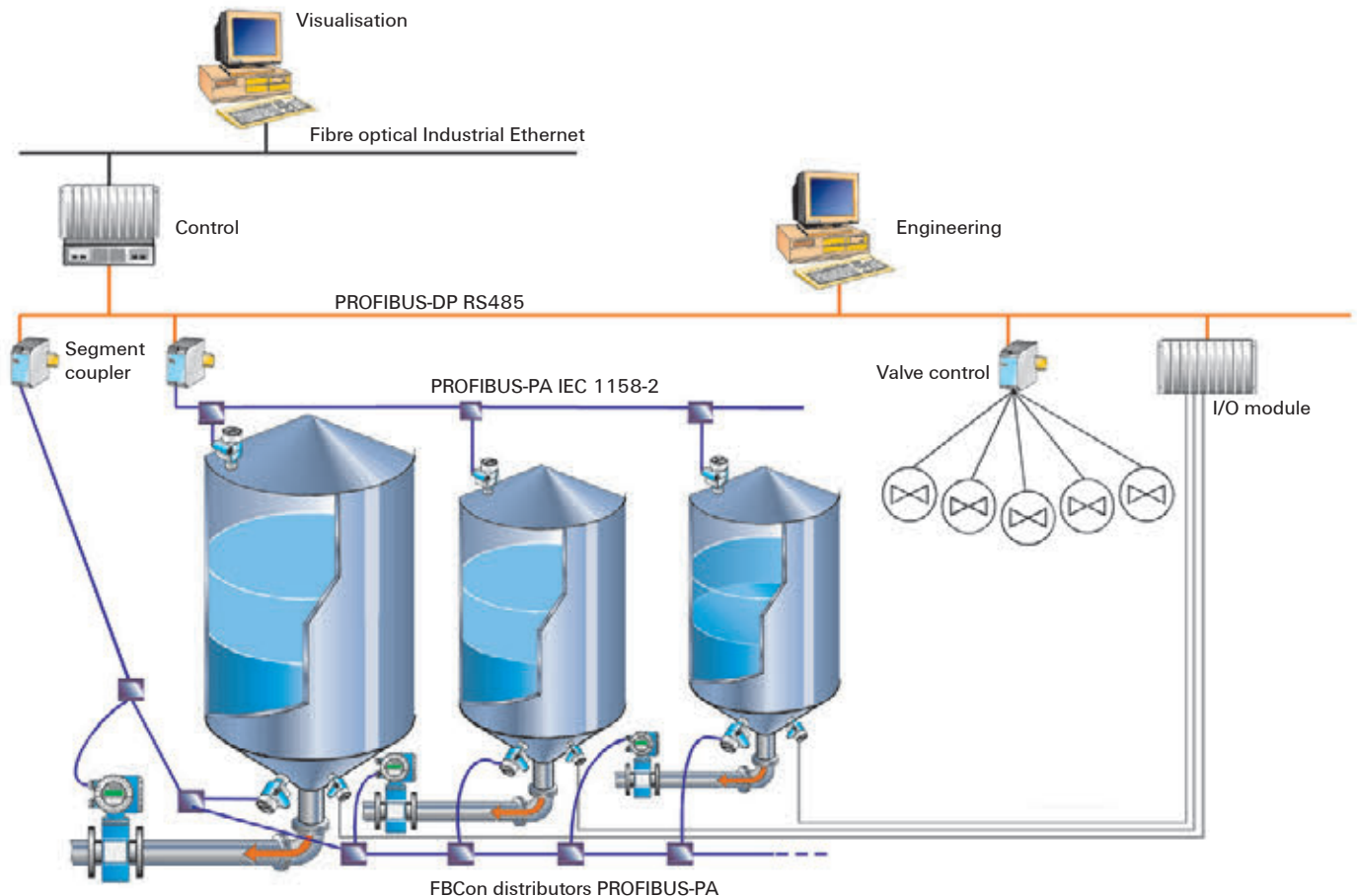
FBCon fieldbus distributors are available in industrial and Ex(ia) versions. They are used for coupling 1-8 field devices or sensors.

The connection is made via a spur. The spur is connected by an M12 plug in connector or directly via an EMC cable gland. The communication and device powering is handled by a common 2-core wire.

The distributors offer the following features irrespective of the version:

- Tension clamp connection technology
- Surge protection for the main line
- Current limiter for each stub line
- EMC cable gland
- M12 plug in connectors
- External earth stud
- Interruption-free bus operation
- Industrial specification
- Bus termination integrated (non EX)
- T ATEX version
- Pressure equalising element
- IP 65, IP 66, IP 67 Ingress protection class
- Stainless steel versions
- PROFIBUS-PA compatible

Typical PROFIBUS system layout



Product coding

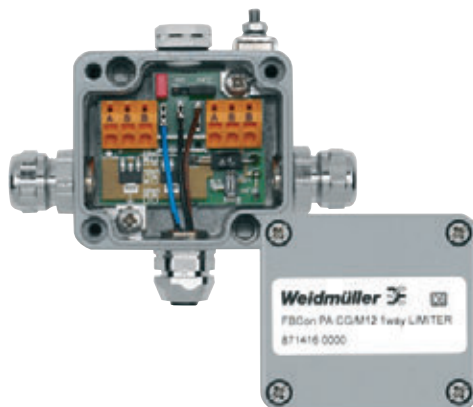
The FBCon family of distributors includes various forms. The product name indicates the respective features as follows:

FBCon	Field Bus Connection
PA	PROFIBUS-PA Process Automation
DP	PROFIBUS-DP Decentralised Periphery
SS	Stainless Steel
CG	Stainless steel cable gland on stainless steel housing. On standard aluminium housings, the cable gland is nickel-plated brass.
PCG	Plastic Cable Gland
CG/M12	M12 plug-in connector for the stub cables and cable gland for the trunk cable
1way	Number of outgoing stub lines
Limiter	Current limiter: protects the PROFIBUS-PA network in the event of an overload in the stub line
OVP	Surge protection: protects the system in the event of a voltage surge
EX	Approved for potentially explosive areas
ATEX	For explosive atmospheres

The standard distributors are grey. The Ex approved distributors are painted blue.

PROFIBUS-PA distributors are generally equipped with a switch in terminating resistor. In potentially explosive areas, the terminating resistor is manufactured with a separate box. This must be used instead of the right-hand cable gland. In the case of PROFIBUS-DP, an additional external 24 V DC power supply is required. This makes the terminator independent of the last station in the network.

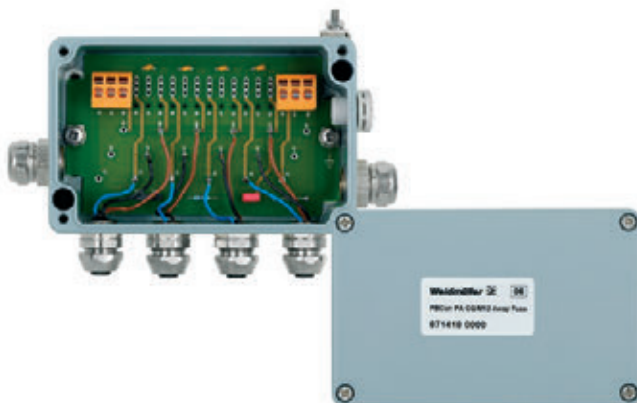
Note: We do not recommend to use FBCon products in strong saline environments.



FBCon PA CG/M12 1way Limiter



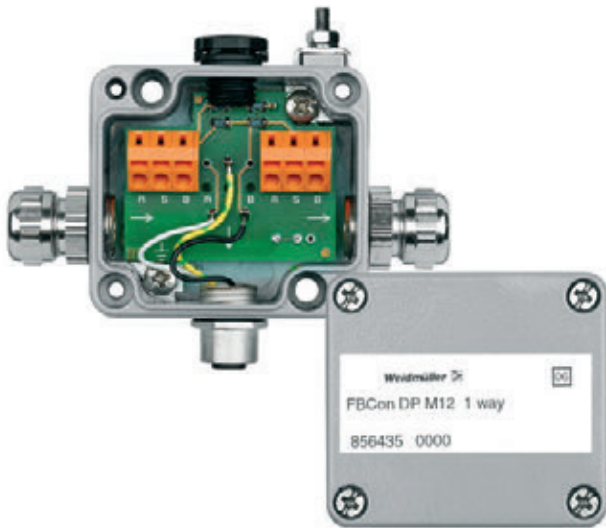
FBCon SS PCG 1way



FBCon PA CG 1way Ex



PROFIBUS-DP distributors



PROFIBUS-DP distributor

The PROFIBUS-DP topology is a line structure. The spur (T-distributor) connects the individual field devices or remote I/Os to the bus cable. The length of the spur cable depends on the transmission rate and should be as short as possible. An individual spur line must not exceed a length of 0.3 m. The total of all spur lengths for transmission rates up to 1.5 MBaud may not exceed max. 6.6 m. The trunk cable passes through an EMC cable gland into an aluminium or stainless steel enclosure where it is connected to a tension clamp terminal. The spur line to the device is connected using a B-coded M12 socket or an EMC cable gland. Terminating resistors must be wired onto the start and end of the PROFIBUS-DP network. The Terminator modules can take care of this task. The electrically isolated 24 V DC power supply for the bus terminator is routed into the cable gland on the right side. The housing features a pressure-compensation mechanism that counters the effects of climatic fluctuations. The guidelines issued by the PROFIBUS user organisation must be observed.

PROFIBUS-DP

Technical data

Operating temperature	-25 to 70 (Term 24V) / -40 °C to 85 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (AL - SI 12)
Finish	Painted RAL 7001
PROFIBUS-DP connection	Tension clamp terminals 0.5 - 1.5 mm ²
Cable entry	Cable gland M16
Cable gland clamping range	5.5 - 9.5 mm
Contact surface	M12 plug/socket CuZnAu
Transmission rate	Max. 1.5 MBaud
Power supply bus connection	Bus terminator 24 VDC +/- 10 %
Trunk cable via cable gland	

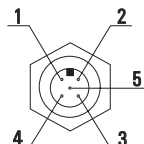
Installation advice

Torques	
M16 cable gland at enclosure	6.0 Nm
Union nut, M16 cable gland	4.0 Nm
Enclosure cover	1.8 - 2.0 N
External earthing cable	1.8 - 2.0 Nm
Adaptor/stud cable	0.5 Nm

Pin assignment

Pin no.	Connection	Wire colour
Pin 1	unassigned	
Pin 2	RxDx/TxD-N / A-wire	green
Pin 3	unassigned	
Pin 4	RxDx/TxD-N / B-wire	red
Pin 5	shield	
Cable gland	shield	

Socket B-coded



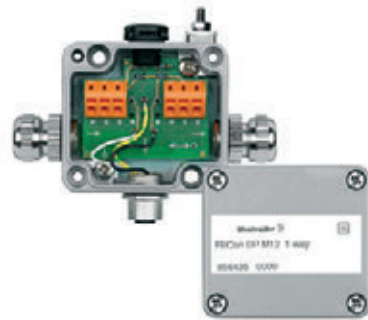
1-channel distributor



Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon DP CG 1way	branch line CG	1	8564340000
Stainless steel enclosure			
FBCon SS DP PCG 1way	all connections PCG	1	8714260000

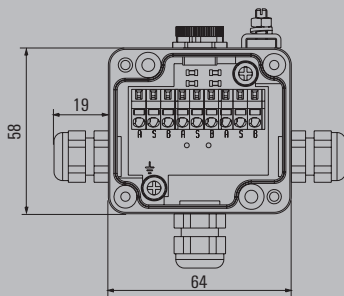
1-channel distributor



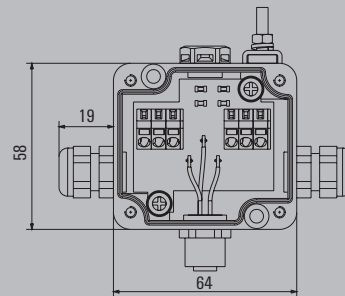
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon DP M12 1way	branch line M12	1	8564350000
Stainless steel enclosure			
FBCon SS DP M12 1way	branch line M12	1	8714270000

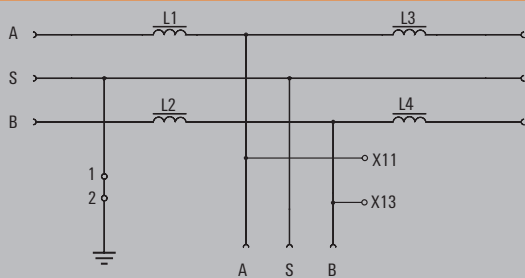
Dimensioned drawing



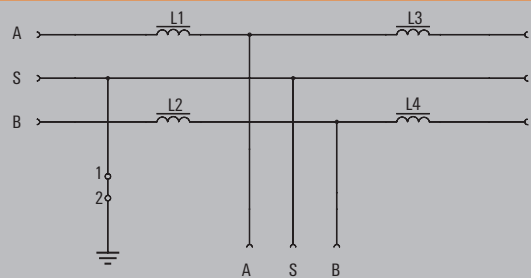
Dimensioned drawing



Wiring diagram



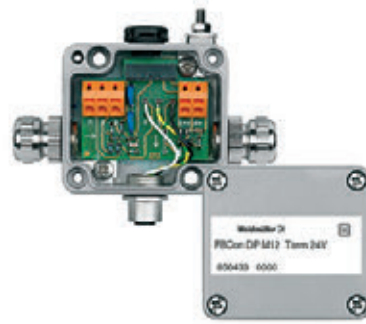
Wiring diagram



Terminator



Terminator



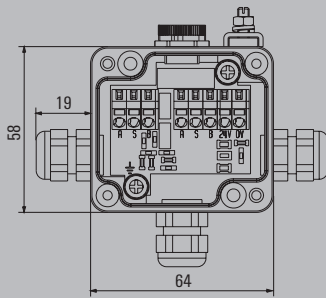
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon DP CG Term 24V	branch line CG	1	8564290000
Stainless steel enclosure			
FBCon SS DP PCG Term 24V	all connections PCG	1	8714240000

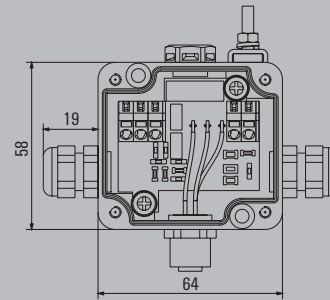
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon DP M12 Term 24V	branch line M12	1	8564330000
FBCon DP M12 Term 5V	branch line M12	1	8564320000
Stainless steel enclosure			
FBCon SS DP M12 Term 24V	branch line M12	1	8714250000

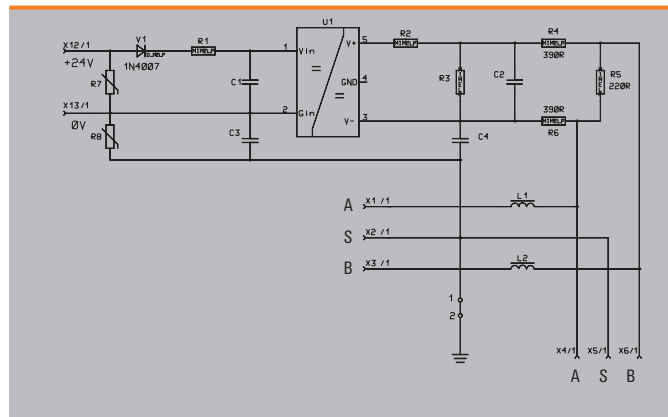
Dimensioned drawing



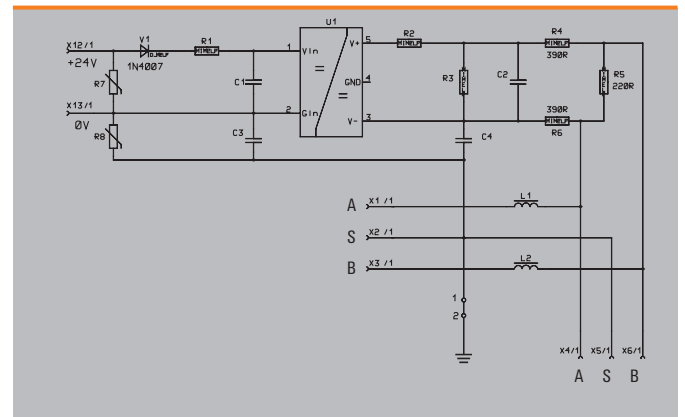
Dimensioned drawing



Wiring diagram



Wiring diagram





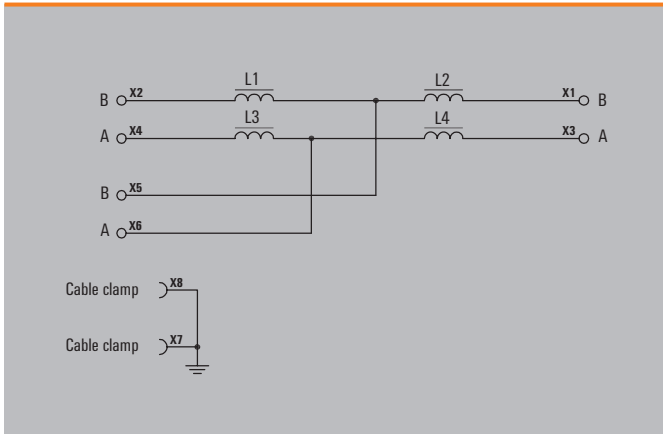
PROFIBUS-DP IP 20 T-distributor



The distributor for PROFIBUS-DP enables the user to connect it conveniently in the electrical cabinet. It can be mounted on TS 32/35 rails and used to connect standardised PROFIBUS-DP lines. Spur cables can also be connected. Please note that spur cables should be kept as short as possible. Part No. 8788580000 has a 9-pin D-Sub socket for connecting analysis/programming devices.

- T-piece functions
- Good shield contact
- Ample space for connecting the bus cable
- TS 32/35 terminal rail mounting
- Standardised D-Sub connection for PROFIBUS-DP

RS PB-DP T



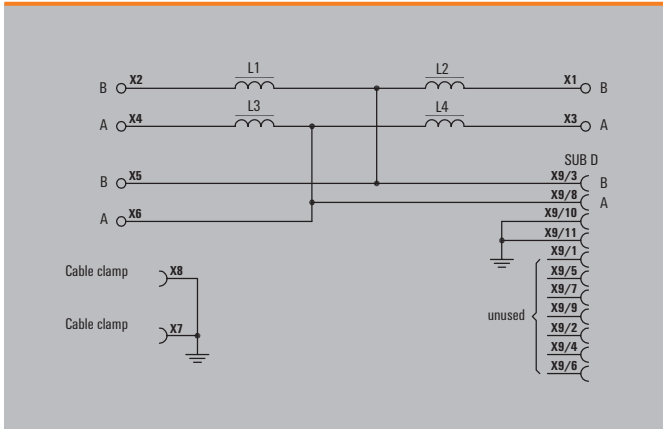
Technical data

Data transmission rate		max. 1.5 Mbps (with max. 6.6 m spur line) max. 12 Mbps (no spur lines)
Operating temperature	°C	0 ... 55
Storage temperature	°C	-25 ... +70
Ingress protection class		IP 20
Dimensions (LxWxH)	mm	70 x 45 x 42
Plug-in connector		D-sub 9-pin
Cable diameter	mm	4.5 ... 8
Single conductor cross-section	mm ²	0.5 ... 2.5
Type of connection		screw
Note		

Ordering data

Type	Qty.	Order No.
RS PB-DP T	1	8800040000
RS PB-DP T SUB-D	1	8788580000

RS PB-DP T SUB-D





The PROFIBUS-PA is an open fieldbus standard (EN 50170, IEC 1158-2, DIN 19245). It was specifically designed for the requirements of process engineering, such as remote powering and intrinsic safety. The PROFIBUS-PA enables operation of several PA sensors and actuators on one bus line.

The devices are powered using twin cable technology, and the transmission of process data is digital.

Integration in the PROFIBUS-DP network is done by means of a segment coupler.

Specific advantages of PROFIBUS-PA:

- Low wiring costs
- Minimal planning costs for the process control system
- Remote interrogation or programming of the field device
- Further development and support by the PROFIBUS User Organisation

Whether for servicing or system modification, the PROFIBUS-PA FB connectors from Weidmüller enable connection or replacement of field devices without interrupting the bus system.

An extensive range of accessories, such as pre-assembled cables are also available.





PROFIBUS-PA cables



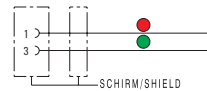
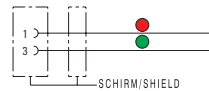
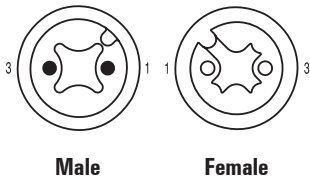
PROFIBUS-PA connectors



Profibus PA distributors

PROFIBUS-PA - cables

One end without connector
M12
A-coded



Ordering data

Male, straight	
PVC	1.0 m
Male, angled	
PVC	1.0 m
Female, straight	
PVC	1.0 m
Female, angled	
PVC	1.0 m
Note	

	blue
FBCEX PA M12 M 1M	1785150100
FBCEX PA M12 MA 1M	1076580100
FBCEX PA M12 FM 1M	1785140100
FBCEX PA M12 FMA 1M	1076520100

	black
FBC PA M12 M 1M	1785120100
FBC PA M12 MA 1M	1076540100
FBC PA M12 FM 1M	1785110100
FBC PA M12 FMA 1M	1076530100

Wall bushing



Ordering data

Type	Length	Qty.	Order No.
SAI-WDF-5P M12 60 mm	60 mm	1	1819450000

Standard cable lengths

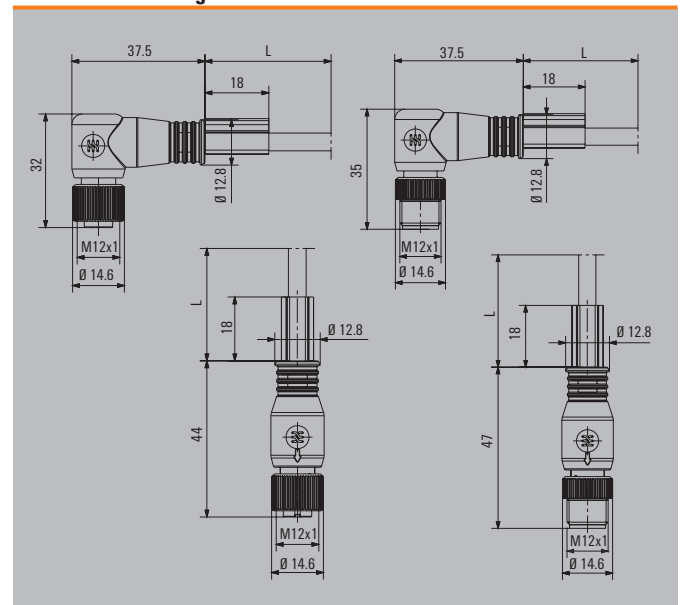
All cables listed in the ordering data have a length of 1.0 m	1.0 m	xxxxxx0100
1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Cladding colour	Black, Blue
Protection degree	IP67
Core cross-section	1 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

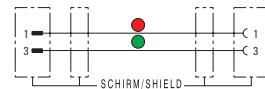
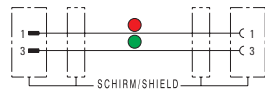
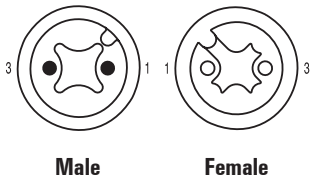
Chapter W includes additional technical specifications for the cable

Dimensioned drawing



PROFIBUS-PA cables

Connecting line



Ordering data

Male, straight - Female, straight	
PVC	1.0 m
Male, straight - Female, angled	
PVC	1.0 m
Male, angled - Female, angled	
PVC	1.0 m
Male, angled - female, straight	
PVC	1.0 m
Note	

	blue
FBCEX PA M12 M-FM 1M	1785130100
FBCEX PA M12 M-FMA 1M	1075390100
FBCEX PA M12 MA-FMA 1M	1075410100
FBCEX PA M12 MA-FM 1M	1075450100

	black
FBC PA M12 M-FM 1M	1785100100
FBC PA M12 M-FMA 1M	1075620100
FBC PA M12 MA-FMA 1M	1076550100
FBC PA M12 MA-FM 1M	1075460100

Wall bushing



Ordering data

Type	Length	Qty.	Order No.
SAI-WDF-5P M12 60 mm	60 mm	1	1819450000

Standard cable lengths

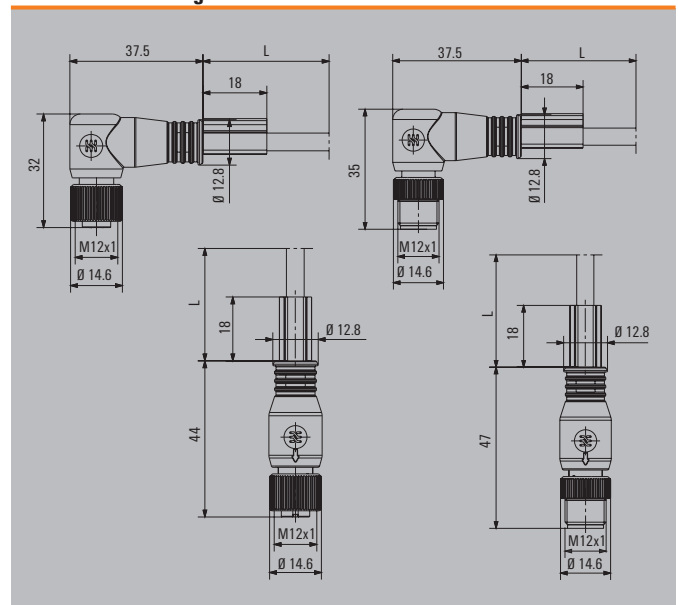
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.0 m	xxxxxx0100
	2.0 m	xxxxxx0200
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Cladding colour	Black, Blue
Protection degree	IP67
Core cross-section	1 mm ²
Contact surface	Gold-plated
Temperature range of housing	-25...+80 °C

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



PROFIBUS-PA - cables

PROFIBUS-PA bulk lengths



Technical data

PROFIBUS-PA bulk lengths							
Application	<ul style="list-style-type: none"> Fieldbus cable for PROFIBUS-PA field networks in accordance with IEC 1158-2 The cable is suitable for installation in both dry and humid spaces. When used with the black, UV-resistant cladding, it can also be installed outdoors. 						
General characteristics	<p>None of the materials used for the cables during production are detrimental to paint adhesion (they are LBS-free).</p> <p>LBS = Materials detrimental to paint adhesion</p>						
Assembly							
Conductor	Copper wire, without insulation, 1.0 mm ² , finely stranded						
Insulating sleeve	Foam skin (O2YS), wire Ø approx. 2.55 mm						
Stranding	Wire colours: red and green						
Wrapping	2 wires with 2 drain wires approx. 1.0 mm Ø stranded						
Shield	1 layer insulation foil						
Outer cladding	Braiding made from tin-plated copper wire, Coverage 85 % ± 5 PVC, blue RAL 5015 or black Outer diameter: 8.0 mm ± 0.4						
Electrical characteristics at 20 °C							
Wire resistance (loop)	max. 44 Ω/km						
Insulation resistance	min. 5 GΩ x km						
Working capacity at 800 Hz	nom. 52 nF/km						
Inductance at 800 Hz	approx. 0.4 mH/km						
Characteristic impedance	at 31.25 kHz 100 Ω ± 20 % at ≥ 1 MHz nom. 80 Ω						
Wave attenuation	at 39 kHz max. 0.3 dB/100 m at 100 kHz nom. 0.35 dB/100 m at 1 MHz nom. 1.2 dB/100 m						
Signal dispersion speed	nom. 79 %						
Coupling resistance at < 30 MHz	max. 250 mΩ/m						
Operating voltage (not for three-phase use)	Peak value 100 V						
Test voltage	Wire/wire U _{eff.} 1500 V Wire/shield U _{eff.} 1500 V						
Mechanical and thermal characteristics							
Min. bending radius stationary installed / during installation	65 mm						
Temperature range during installation	-5 °C to +60 °C						
Temperature range stationary installed	-30 °C to +80 °C						
Flammability	Flame retardant in accordance with VDE 0482, part 265-2-1 / IEC 60 332-1						
Note							
Ordering data							
	<table border="1"> <thead> <tr> <th>Type</th> <th>Order No.</th> </tr> </thead> <tbody> <tr> <td>SAIH-PB-PA-2X1.0-PVC-BL</td> <td>1232630000</td> </tr> <tr> <td>SAIH-PB-PA-2X1.0-PVC-SW</td> <td>1232640000</td> </tr> </tbody> </table>	Type	Order No.	SAIH-PB-PA-2X1.0-PVC-BL	1232630000	SAIH-PB-PA-2X1.0-PVC-SW	1232640000
Type	Order No.						
SAIH-PB-PA-2X1.0-PVC-BL	1232630000						
SAIH-PB-PA-2X1.0-PVC-SW	1232640000						
Note							

J

M12 screw connection
with shield connection
A-coded



FBCon / SAIS

Straight



SAISW / SAIBW

Angled



Ordering data

Male	
	4-pole, PG 9
	5-pole, PG 9
Female	
	4-pole, PG 9
	5-pole, PG 7
	5-pole, PG 9
Note	

Type	QTY	Order No.
FBCon M12 4P M EMC	1	9455640000
SAIS-M-5/8S M12 5P A-COD	1	1784740000
Other versions on request		
FBCon M12 4P FM EMC	1	8426220000
SAIB-5/6S M12 5P A-COD	1	1191020000
SAIB-M-5/8S M12 5P A-COD	1	1784750000
Other versions on request		

Type	QTY	Order No.
SAISW-M-4/8 M12	1	1803930000
SAISW-M-5/8 M12	1	1803940000
Other versions on request		
SAIBW-M-4/8 M12	1	1803910000
SAIBW-M-5/8 M12	1	1803920000
Other versions on request		

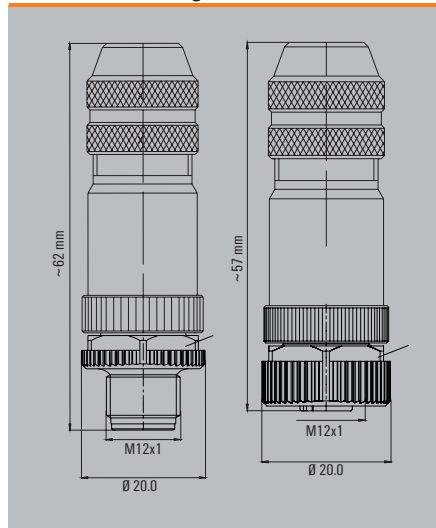
Technical data

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.75 mm ²
Rated current	4 A
Rated voltage (acc. to VDE standard 0110 ISO Group C)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

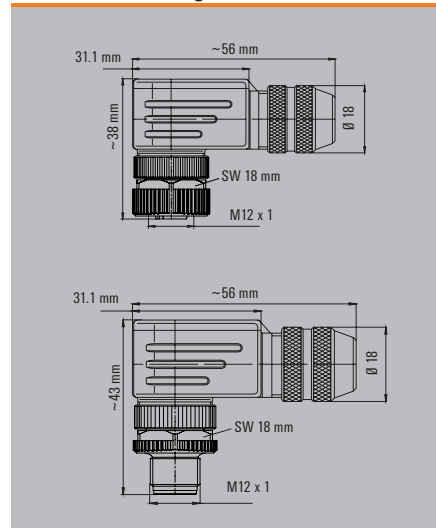
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (4-pole) / 125 V (5-pole)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage (4-pole) / 125 V (5-pole)	250 V (4-pole) / 125 V (5-pole)
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Dimensioned drawing



Dimensioned drawing



PROFIBUS PA - connectors

M12 tension-clamp connection, stainless steel
with shield connection
A-coded



SAIS / SAIB VA

Straight



Ordering data

Male	5-pole, PG 9
Female	5-pole, PG 9
Note	

Type	QTY	Order No.
SAIS 5/9-VA	1	1920700000
SAIB 5/9-VA	1	1920710000

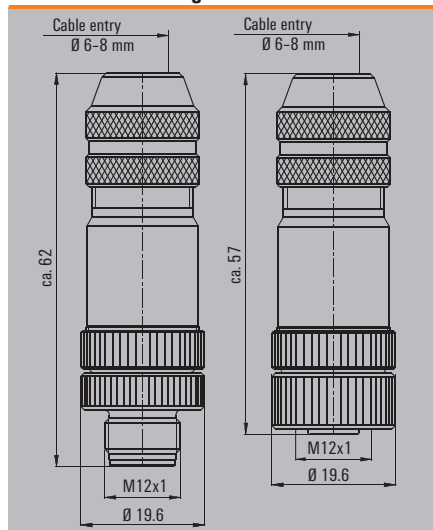
Technical data

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD)

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	PB = PROFIBUS (B-COD)

J

Dimensioned drawing



FBCon distributors for the industrial market



PROFIBUS-PA T-connector

- for industrial applications
- standard

The **PROFIBUS-PA** installation products are increasingly used in the:

- food and beverage industry
- process industries and
- chemical industry

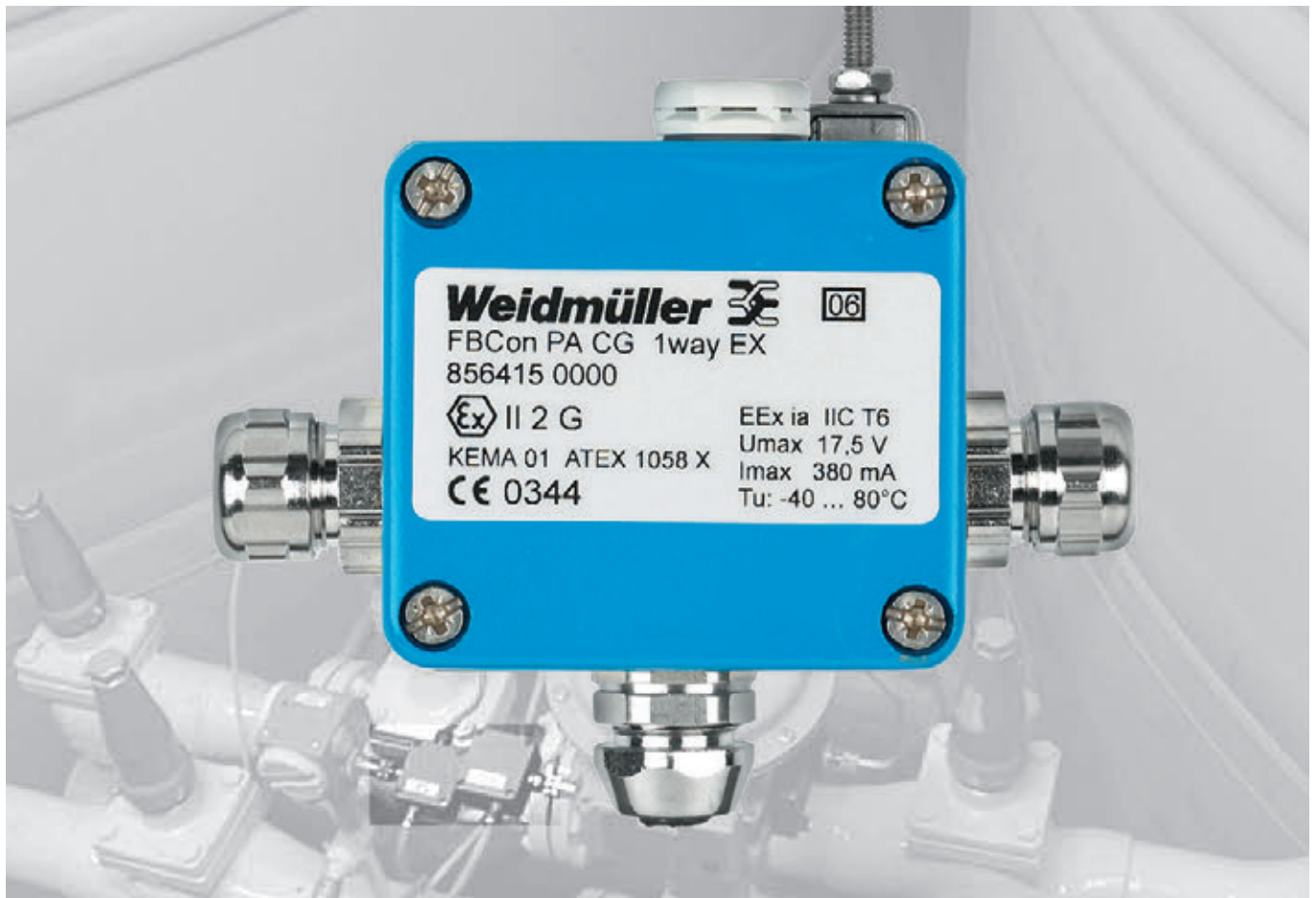
The product range offers a wide choice of customer solutions for use in harsh conditions. This includes standard and EX versions of single and multi-way design with M12 plug-in connection or cable glands. Weidmüller offers a solution for almost every application. If you cannot find your solution here, please contact the branch / sales office responsible for you.

PROFIBUS-PA T-connector standard

- 1, 2, 4, 8-way with EMC cable gland
- Industrial + EX / ATEX
- Optional surge protection

The **PROFIBUS-PA T-connector** is intended for direct coupling of measuring devices, sensors, actuators, etc.

- IP 66 Ingress protection class
- Modular design
- Uninterruptible bus operation for service situations
- Simple handling
- Low installation costs
- External earth stud
- Pressure equalising element
- EMC cable gland



J

FBCon Fieldbus distributor

PROFIBUS-PA Fieldbus distributor: robust and well-tested

FBCon fieldbus distributors are available in industrial and Ex(ia) versions. They are used for coupling 1-8 field devices or sensors. The connection is made via a spur. The spur is connected by an M12 plug-in connector or directly via an EMC cable gland.

The communication and device powering is handled by a common 2-core wire.

The PROFIBUS-PA distributors normally feature a switchable terminating resistor. For the Ex zone, the terminating resistor is made with a separate box. Current limiting variants help to ensure that the facility can operate smoothly.

Weidmüller offers a comprehensive line of accessories including pre-assembled PROFIBUS-PA cables in the standard lengths, and plug in connectors for a wide variety of applications.

- Fieldbus distributor for PROFIBUS-PA and PROFIBUS-DP
- Standard distributor for use in the safe zone
- Aluminium housing for connecting from 1 to 8 field devices
- Stainless steel distributor for applications in the food processing industry, for connecting from 1 to 8 field devices
- Intrinsically safe (ia) Ex version in aluminium housing for connecting from 1 to 8 field devices
- EMC cable gland for a secure contact with the shielding

Technical data for PROFIBUS-PA standard distributors

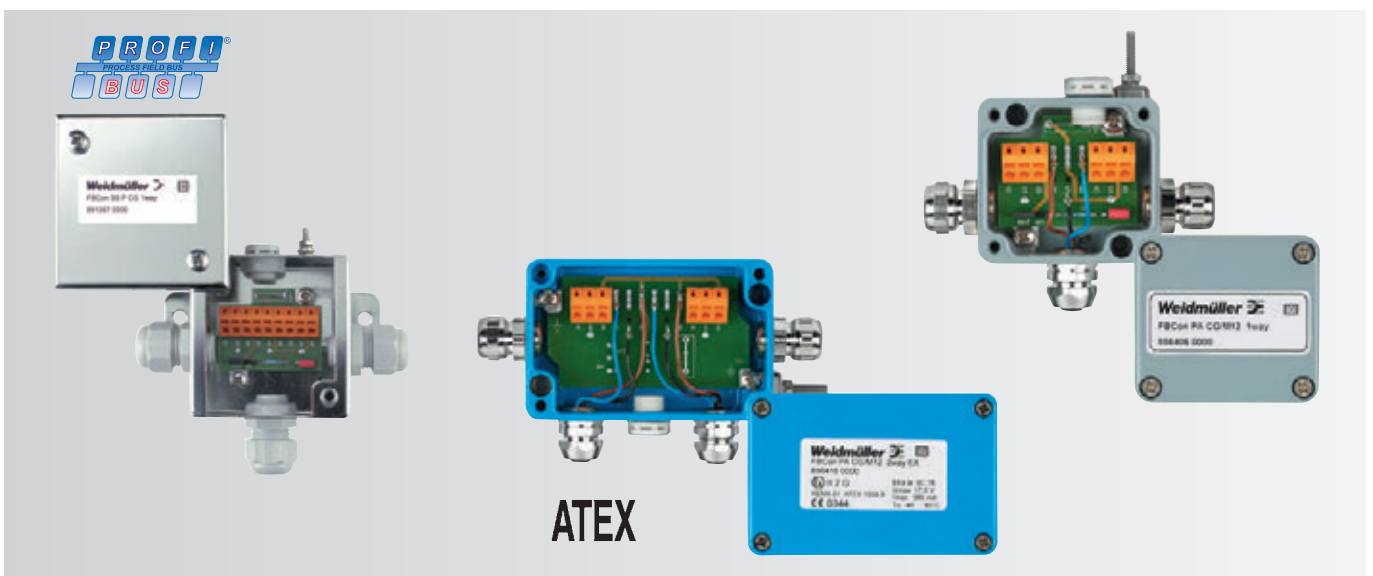
Temperature range	
Operating temperature	from -40 °C to 85 °C
Ingress protection class	IP 66
Housing material	High-quality aluminium alloy (AL-Si 12)
Surface	Stove-enamelled RAL 7001
PROFIBUS-PA connection	Tension clamp connection 0.5 - 1.5 mm ²
Cable entry	Cable gland M16
Clamping range	5.5 - 9.5 mm
Measuring device connector M12 x 14-pin	Contacts MS, surface CUZnAu
Note	

Handling information

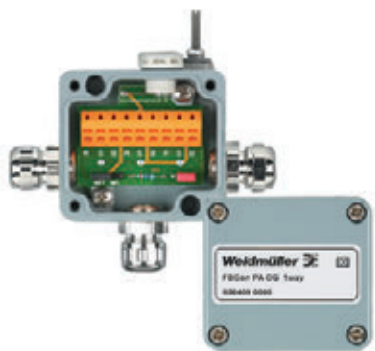
Torques	
M16 gland to housing	6.25 Nm
M16 union nut on cable gland	4.5 Nm
Housing cover	1.8 - 2.0 Nm
External earth stud	1.8 - 2.0 Nm

Note:

We do not recommend to use PBCon products in strong saline environments.



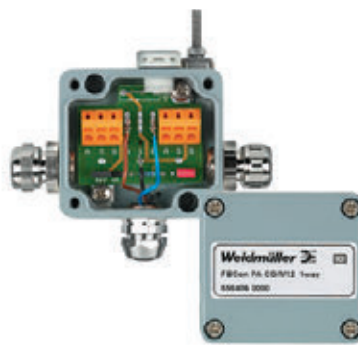
1-channel distributor



Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 1way	branch line CG	1	8564090000
Stainless steel enclosure			
FBCon SS CG 1way	branch line CG	1	8703430000
FBCon SS PCG 1way	all connections PCG	1	8613670000

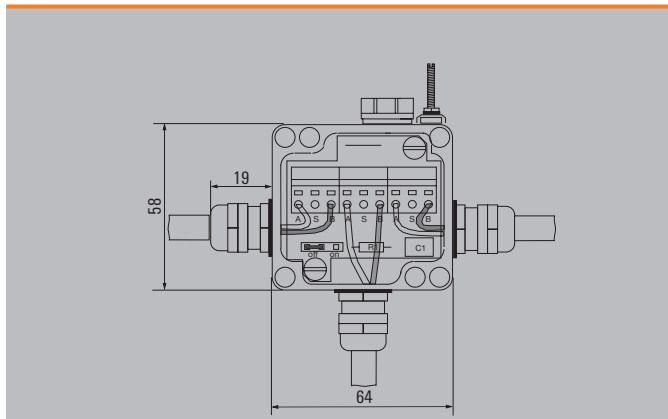
1-channel distributor



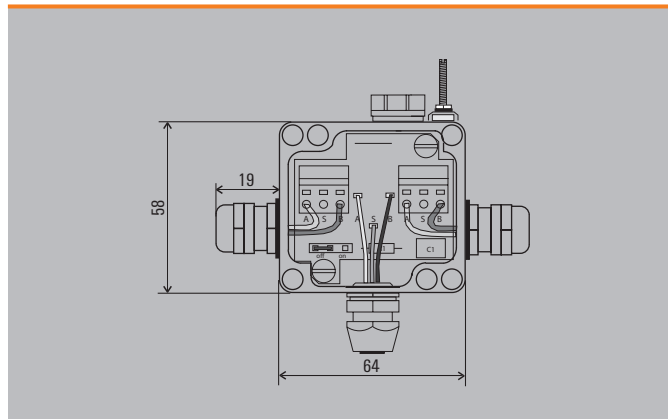
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 1way	branch line M12	1	8564060000
Stainless steel enclosure			
FBCon SS CG/M12 1way	branch line M12	1	8726020000

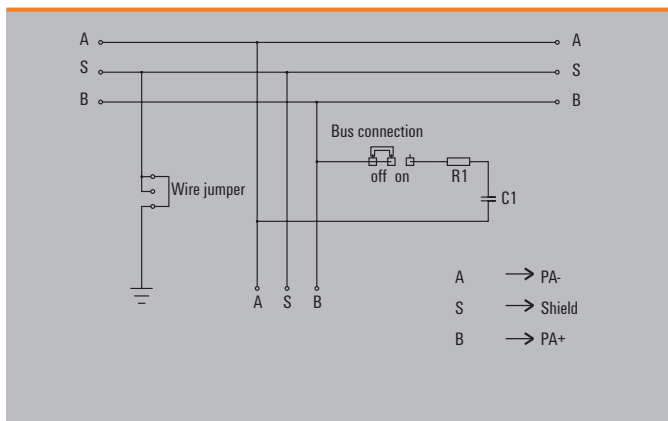
Dimensioned drawing



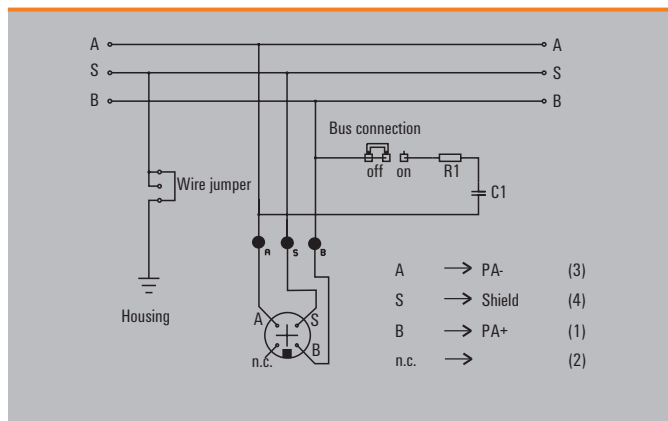
Dimensioned drawing



Wiring diagram



Wiring diagram



2-channel distributor



2-channel distributor



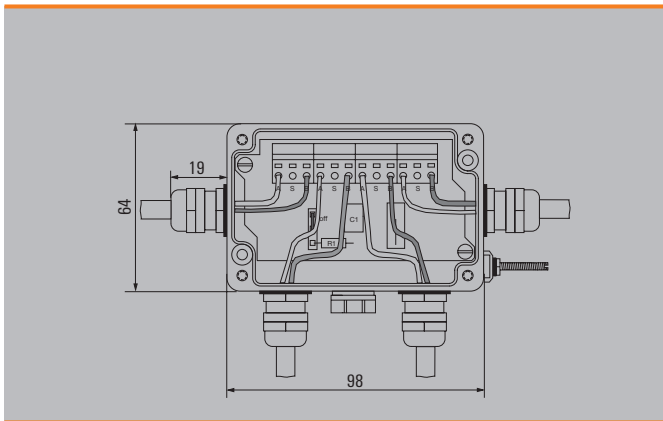
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 2way	branch line CG	1	8564100000

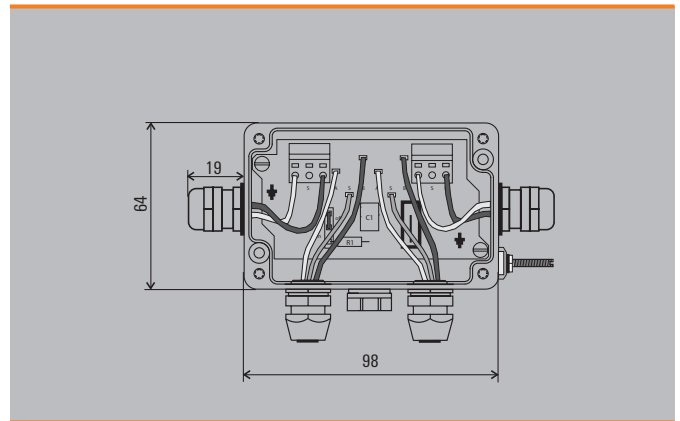
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 2way	branch line M12	1	8564070000

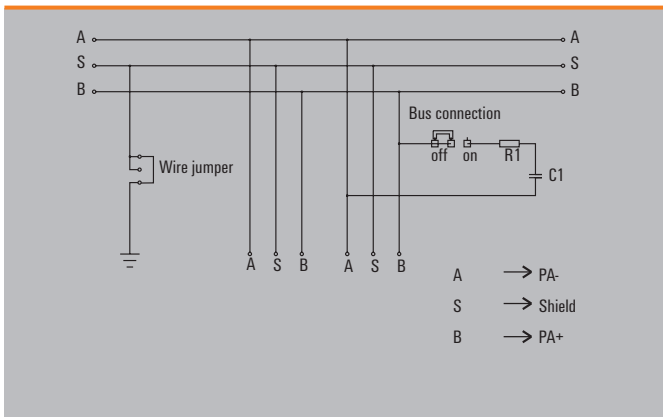
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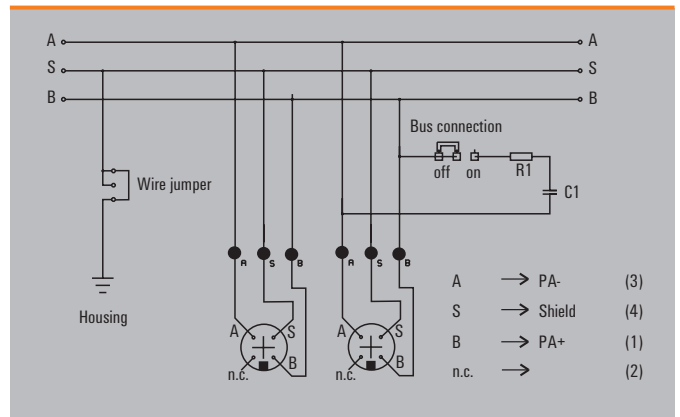
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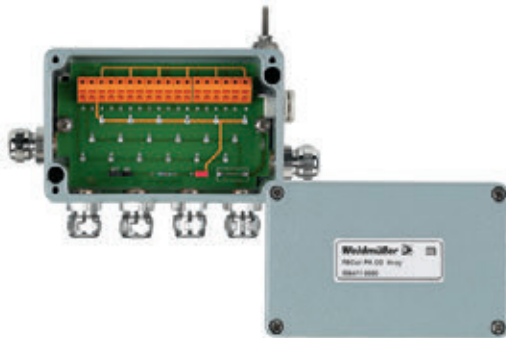
Wiring diagram



Wiring diagram



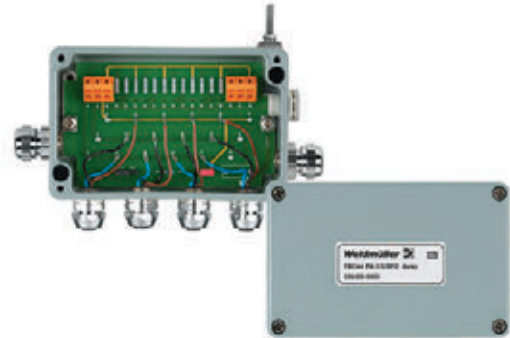
4-channel distributor



Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 4way	branch line CG	1	8564110000
Stainless steel enclosure			
FBCon SS CG 4way	branch line CG	1	8703450000
FBCon SS PCG 4way	all connections PCG	1	8613680000

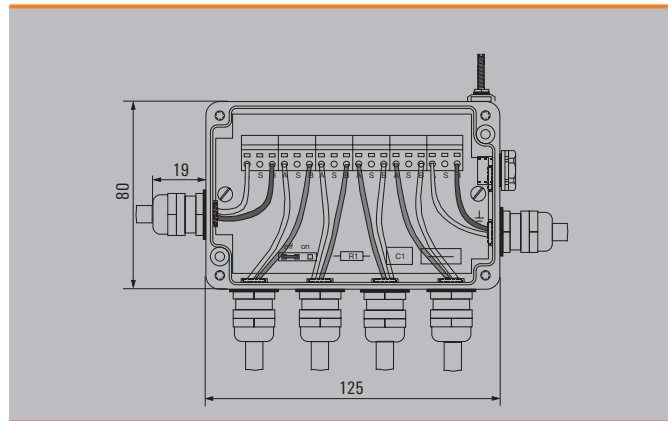
4-channel distributor



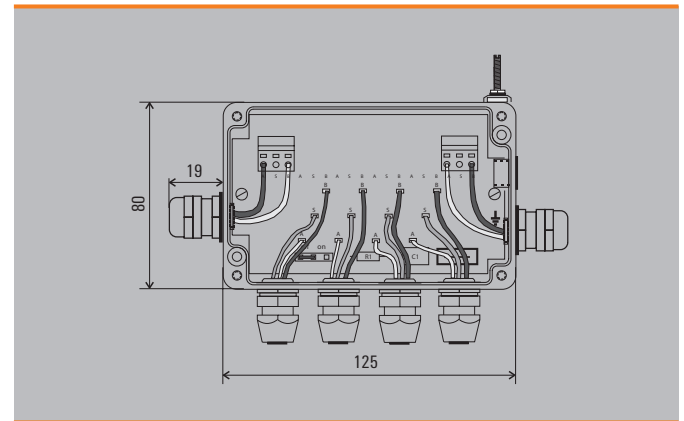
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 4way	branch line M12	1	8564080000

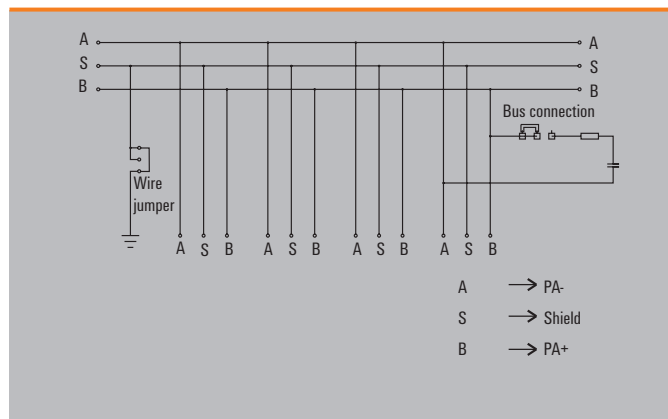
Dimensioned drawing



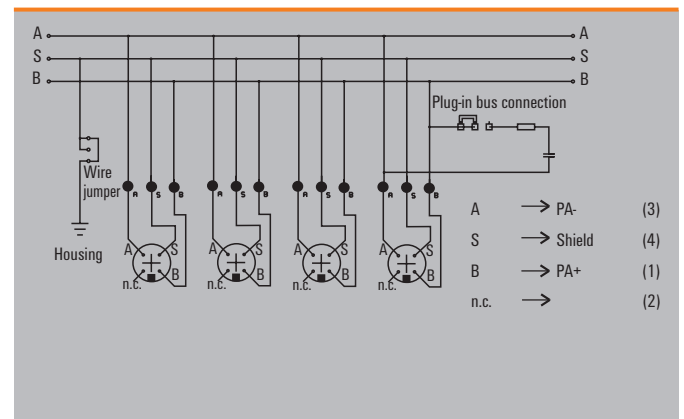
Dimensioned drawing



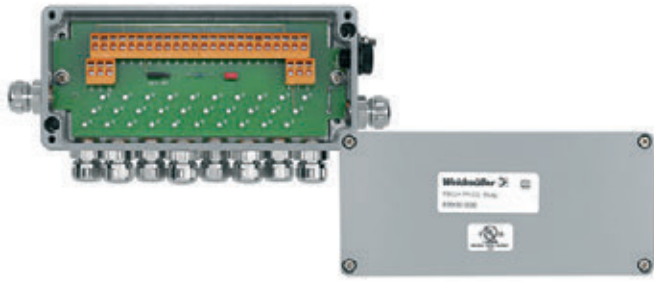
Wiring diagram



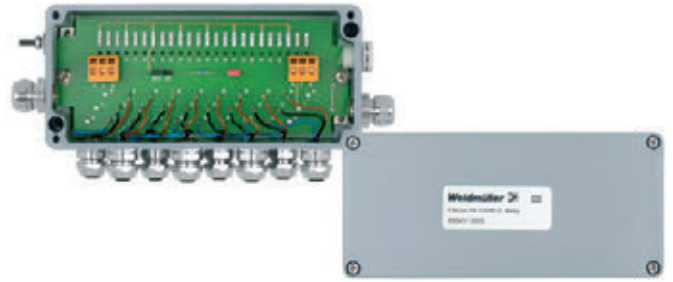
Wiring diagram



8-channel distributor



8-channel distributor



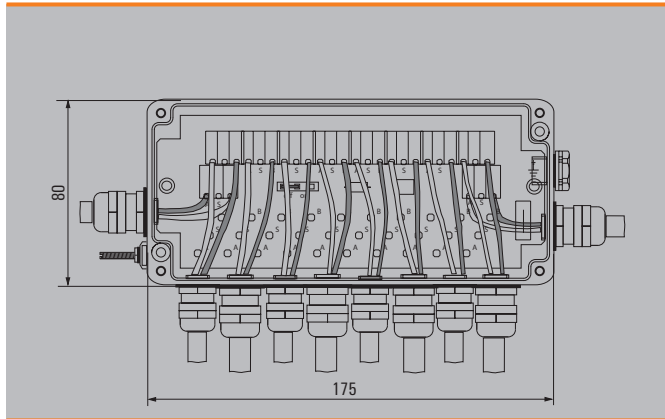
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 8way	branch line CG	1	8564300000
Stainless steel enclosure			
FBCon SS CG 8way	branch line CG	1	8703470000

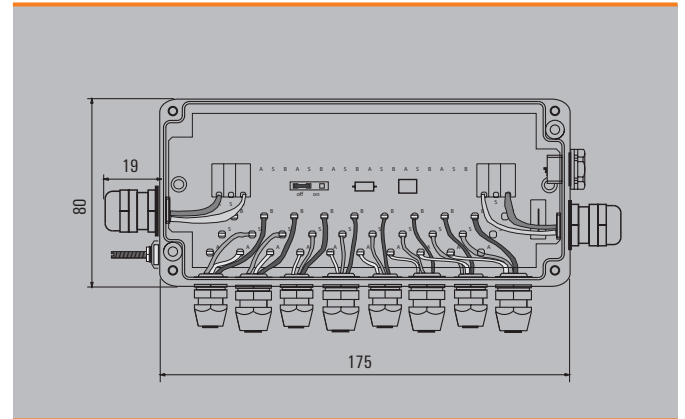
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 8way	branch line M12	1	8564310000

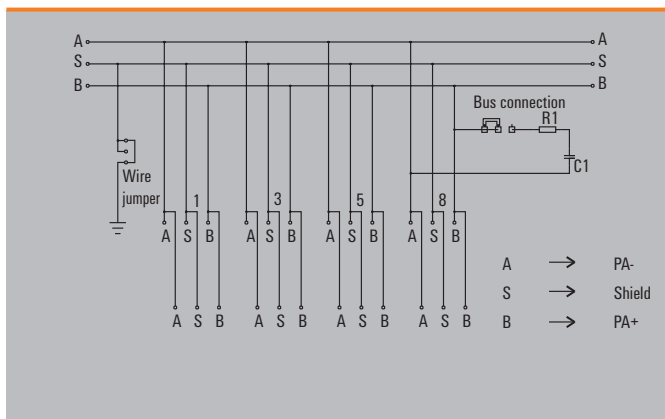
Dimensioned drawing



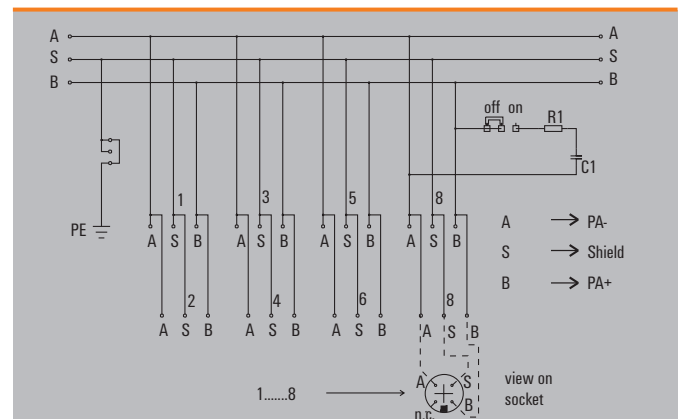
Dimensioned drawing



Wiring diagram

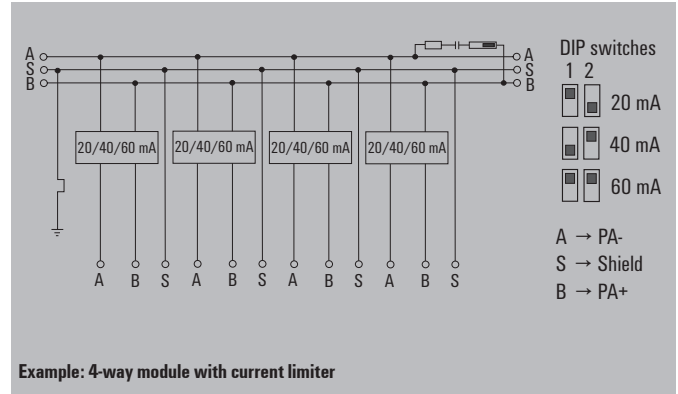
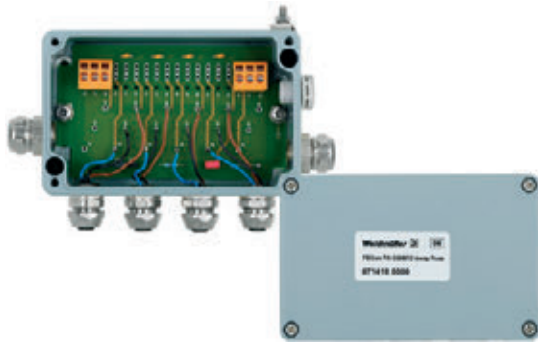


Wiring diagram



PROFIBUS-PA - FBCon T-distributor with surge protection

Fieldbus components for industrial applications with surge protection or current limiter



PROFIBUS-PA T-connectors

Fine surge protection or integrated current limiting mechanisms are designed for protecting connected measuring devices, sensors or actuators from surge voltages. Gas-discharge tubes and suppressor diodes are voltage-limiting protection mechanisms.

If a rapidly rising voltage pulse reaches the input of a T-connector with surge protection, the gas discharge tube ignites and discharges a high current. The residual pulse is limited by a suppressor diode.

In the case of a slow rise in voltage, the pulse is processed by the diode alone. The housing is connected to the protective earth via an external earth stud. When using the connectors for current limiting, the PROFIBUS-PA network is protected against short circuits with protective circuitry. The current can be set to either 20 mA, 40 mA or 60 mA by means of two DIP switches.

Limiter

Technical data

Operating temperature	-40 °C to 55 °C
Ingress protection class	IP 67
Enclosure material	High grade aluminium alloy (AL - SI 12)
Finish	Painted RAL 7001
PROFIBUS-PA connection	Tension clamp terminals 0.5 - 1.5 mm ²
Cable entry	Cable gland M16
Branch	M12 socket (4-pin)
Cable gland clamping range	5.5 - 9.5 mm
Short-circuit protection per station	20, 40, 60 mA settings
PROFIBUS-PA bus terminator	Via jumper

Installation advice

Torques	
Screw terminals	0.4 Nm
M16 cable gland at enclosure	6.0 Nm
Union nut M16 cable gland	4.0 Nm
Enclosure cover	1.8 - 2.0 Nm
External earthing cable	1.8 - 2.0 Nm

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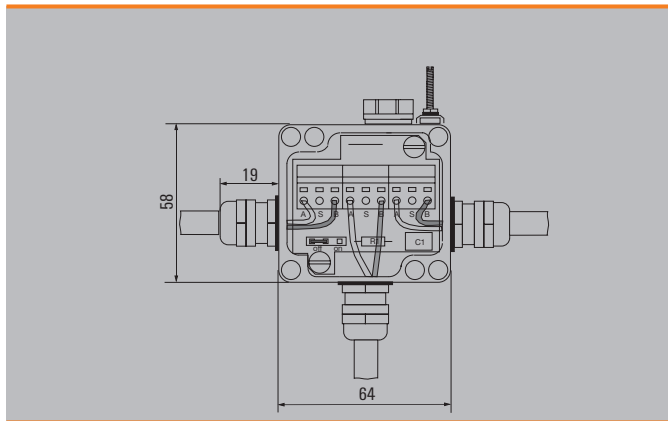
1-channel distributor (limiter)



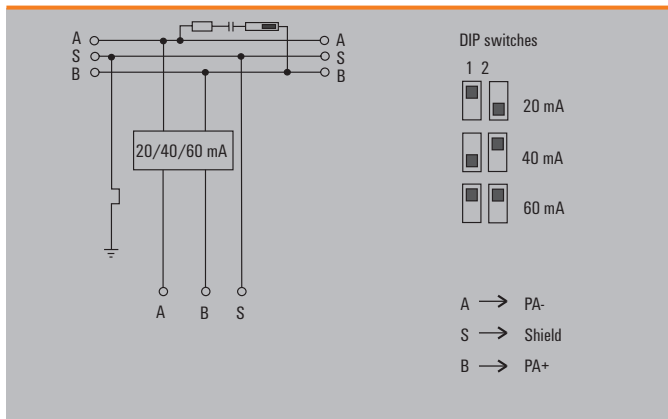
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 1way Limiter	branch line CG	1	8714200000
Stainless steel enclosure			
FBCon SS PCG 1way Limiter	all connections PCG	1	8726110000

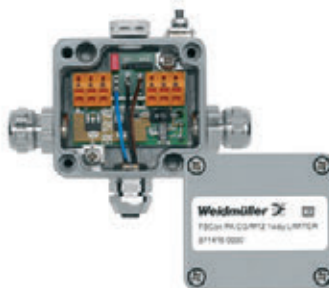
Dimensioned drawing



Wiring diagram



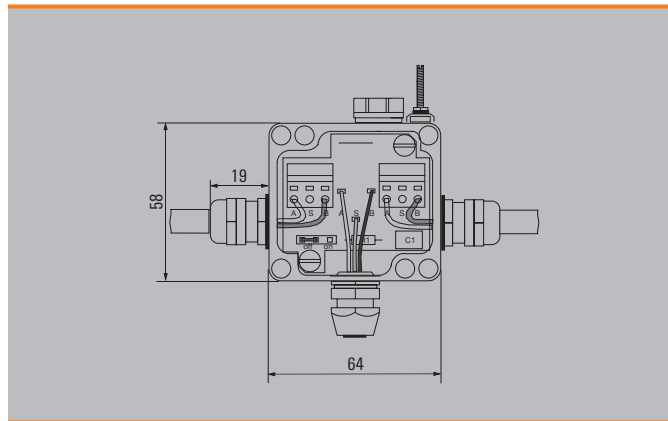
1-channel distributor (limiter)



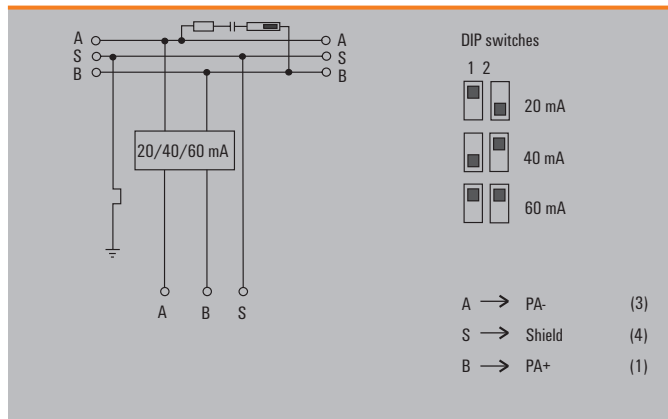
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 1way Limiter	branch line M12	1	8714160000

Dimensioned drawing



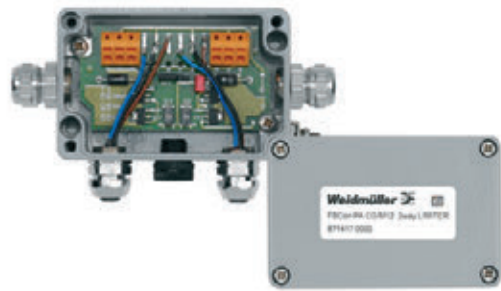
Wiring diagram



2-channel distributor (limiter)



2-channel distributor (limiter)



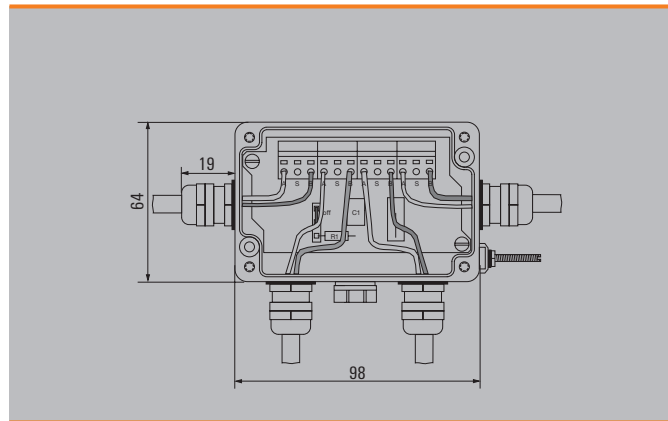
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 2way Limiter	branch line CG	1	8714210000

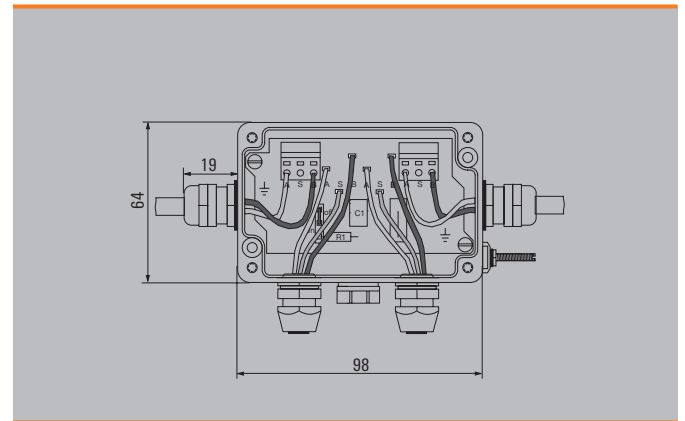
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 2way Limiter	branch line M12	1	8714170000

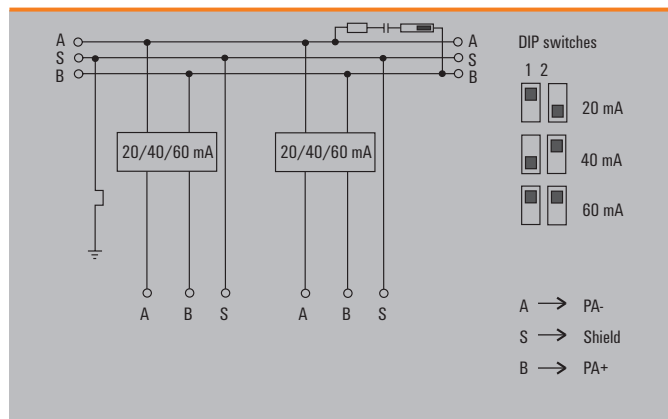
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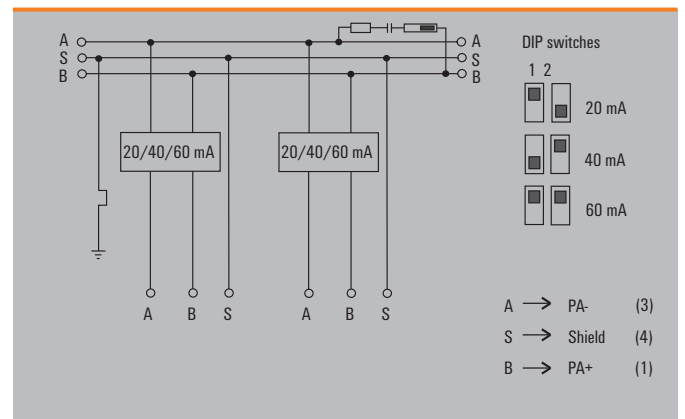
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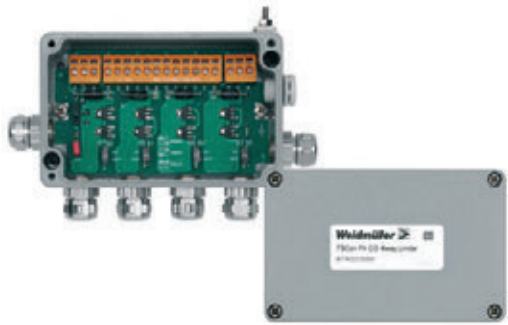
Wiring diagram



Wiring diagram



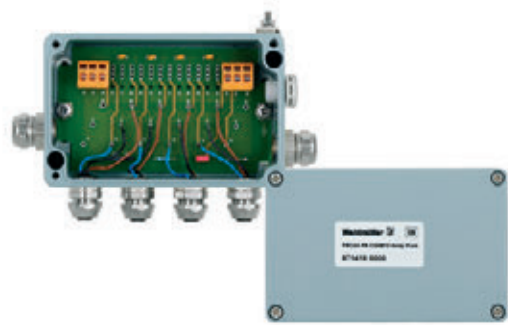
4-channel distributor (limiter)



Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 4way Limiter	branch line CG	1	8714220000
Stainless steel enclosure			
FBCon SS PCG 4way Limiter	all connections PCG	1	8715260000

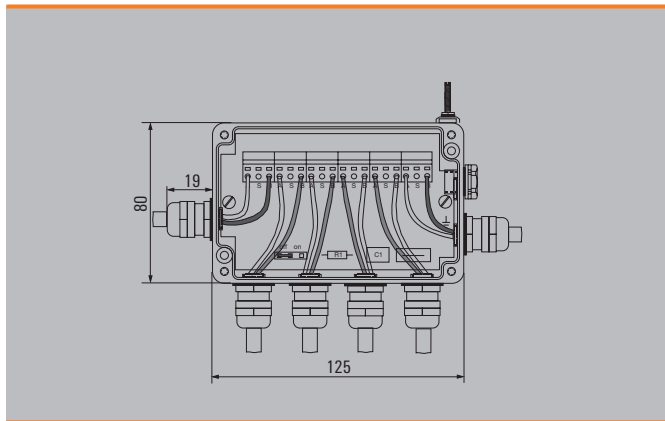
4-channel distributor (limiter)



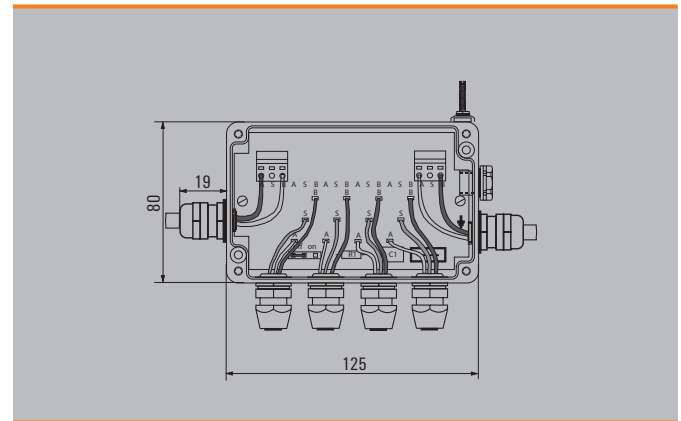
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 4way Limiter	branch line M12	1	8714180000

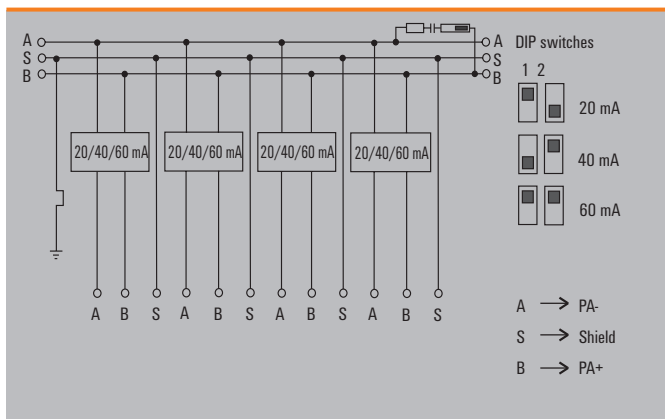
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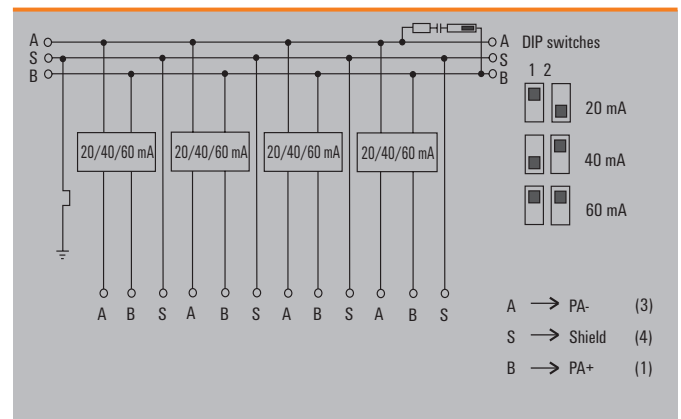
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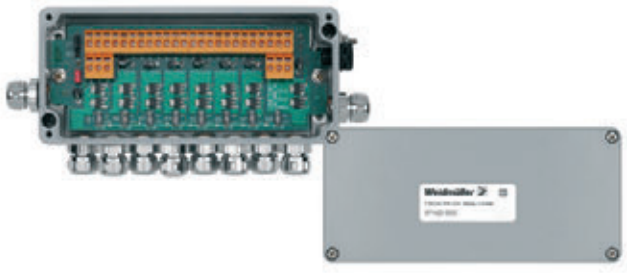
Wiring diagram



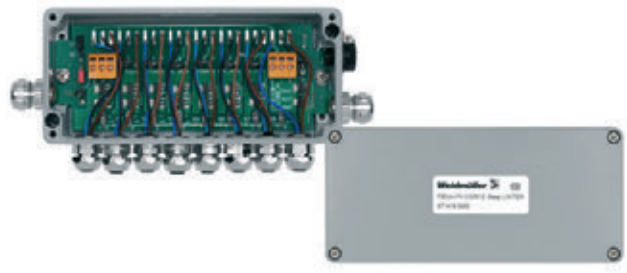
Wiring diagram



8-channel distributor (limiter)



8-channel distributor (limiter)



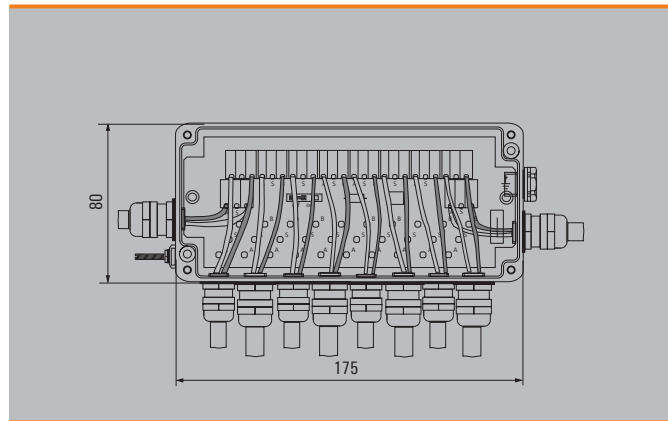
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 8way Limiter	branch line CG	1	8714230000
Stainless steel enclosure			
FBCon SS PCG 8way Limiter	all connections PCG	1	8726160000

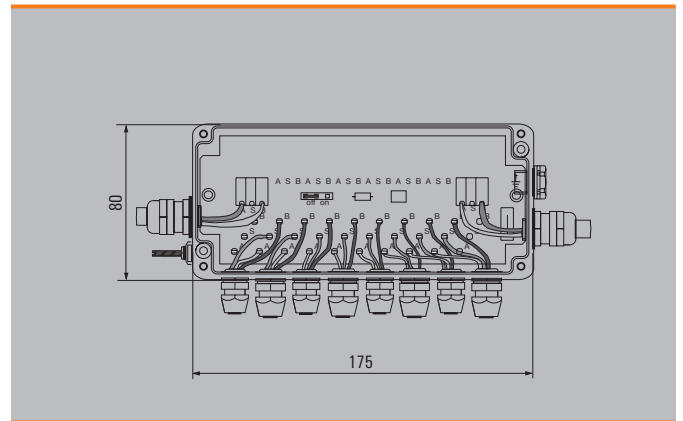
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 8way Limiter	branch line M12	1	8714190000

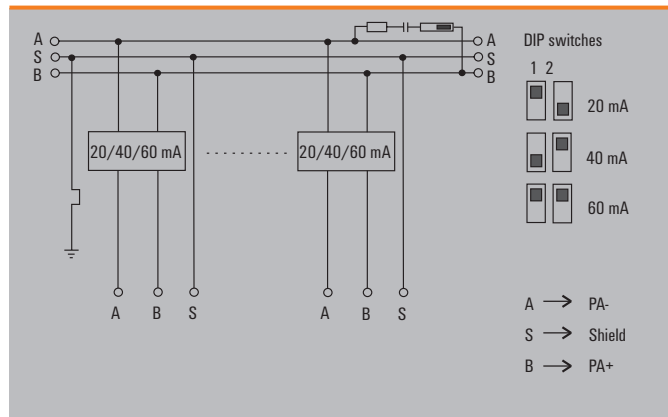
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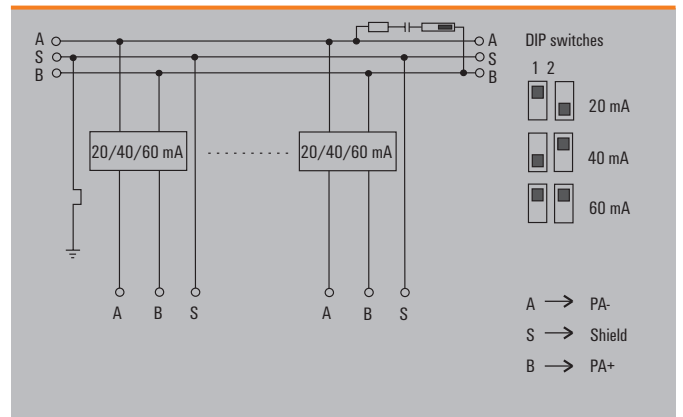
Dimensioned drawing



Wiring diagram



Wiring diagram



FBCon distributors for Ex areas



PROFIBUS-PA T-connector

- Ex(ia)

The PROFIBUS-PA installation products are increasingly used in the

- food industry
- basic industries and
- chemical industry

The product range offers a wide choice of customer solutions for use in harsh conditions. This includes standard and EX versions of single and multi-way design with M12 plug in connection or cable glands. Weidmüller offers a solution for almost every application. If you cannot find your solution here, please contact the branch / sales office responsible for you.

PROFIBUS-PA T-connector

- Ex(ia)

- 1-way
- 2-way
- 4-way
- 8-way

The PROFIBUS-PA T connector Ex(ia) specification is intended for direct coupling of measuring devices, sensors, actuators, etc. in potentially explosive areas.

- Approval for intrinsically safe use ATEX approval
- IP 66 Ingress Protection Class
- Modular design
- Uninterruptible bus operation
- Simple handling
- External earth terminal
- External bus terminator



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Approvals

Weidmüller Bus Terminator 8556460000
Datum: 27.11.06, Seite 1/2

Technische Beschreibung / Einsatzgebiete:

Busabschlusskomponenten wie zum Beispiel der Bus Terminator 8556460000 werden in Feldbus-Systemen eingesetzt. Die Feldbus-Systeme spielen eine zentrale Rolle in der Automatisierungstechnik und sind in allen Bereichen der industriellen Produktion zu finden. Die Bus Terminator 8556460000 sind mit einer Frequenz von 12,5 MHz arbeiten. Es ist zu beachten, dass der Abschlußwiderstand entsprechend des verwendeten Kommunikationssystems angepasst wird.

Der Bus Terminator kann in allen industriellen Bus-Systemen eingesetzt werden, die auf der gleichen physikalischen Übertragungstechnik basieren. Er dient zur Anpassung des Abschlußwiderstandes der Busleitung an den Abschlußwiderstand der Busstationen (EN 60 173).

Mögliche Einsatzgebiete können FOUNDATION Fieldbus (FF) oder PROFIBUS sein.

Der Foundation Fieldbus ist ein 2-Leiter Bus, bei dem die Busstationen über die Busleitung mit Hilfe einer Spannungsversorgung versorgt werden. Der Bus besteht aus Busstationen, die in der Zentraleinheit (Eigentümlichkeit) angeordnet sind. Damit stellt sich dieses System ein drahtloses Netzwerk dar, bestehend aus 4 bis 16 Stationen.

PROFIBUS ist ein Kommunikationssystem, um Daten in der Produktion (z.B. Fertigung) zu übertragen. Die Kommunikation im Feldbereich wird durch die Verfügbarkeit von PROFIBUS-PA ermöglicht. PA nutzt eine Zweidrahtleitung, um sowohl analoge Geräte wie Druckaufnehmer, Temperatursensoren etc. als auch digitale Geräte wie Endknoten zu können. Das Kommunikationssystem von PROFIBUS-PA ist ein vollkommener, dezentraler, digitaler Bus, der CP und PA kann sich aus der EN 15724 entnehmen.

In hoch explosionsgefährdeten Bereichen nutzt PA die durch CP und PA2 getrennte RS-485-Übertragungstechnik. Explosionsgefährdete Bereiche in der Zentraleinheit (Eigentümlichkeit) können über die Busstationen erreicht werden, die die MZ-Stationen Datenpunkte in die nachgeschalteten Systeme nach IEC 1158-3 übermitteln.

Die Datenübertragung und die Energieversorgung der Feldstation erfolgt über die gleiche Kabel. Jedes Feldstation benötigt bei Verwendung der Feldstation einen Stromverbrauch von 10 mA auf. Die Signale werden durch Aufbauelemente eines Blocks von 1-2 mA erzeugt.

Die wesentlichen Aufgaben eines Bus-Systems in explosionsgefährdeten Bereichen sind:

- eine geeignete Datenübertragung sicherzustellen,
- eine schnelle und sichere Fehlersuche über ein Feldbus-System zu geben und
- die Anpassung der Prozessgröße während des Prozesses zu gewährleisten.

Ex

Techn. Bezeichnung: 8556460000

Weidmüller Bus Terminator 8556460000
Datum: 27.11.06, Seite 2/2

Spezialfall: Der FBCon Bus Terminator 8556460000 für den explosionsgefährdeten Bereich Ex ist ein Bus Terminator, der in Verbindung mit einem für die Zentraleinheit (Eigentümlichkeit) und für die Feldstationen (Eigentümlichkeit) vorgesehenen Gehäuse innerhalb einer Ex- oder Ex-Ex-Anwendung verwendet werden (Ex-Ex ist ein explosionsgefährdetes Gehäuse). Bei Anwendung mit/ in einem explosionsgefährdeten Bereich wird der Bus Terminator mit einem zusätzlichen Endanschluß versehen (Zeichnung 855646-01).

Anwendungsbeispiel für ein Kommunikationssystem mit Bus Terminator

Techn. Bezeichnung: 8556460000

DEKRA

CERTIFICATE

(1) EC-Type Examination

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: KEMA 01ATEX1058 Issue Number: 3

(4) Equipment: Bus Terminator Module Type FBCon bus and Bus Distribution Module Type FBCon...

(5) Manufacturer: Weidmüller Interface GmbH & Co.

(6) Address: Klingenbergstraße 16, 32756 Detmold, Germany

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0044 in accordance with Article 8 of the Council Directive 94/9/EC of 23 March 1994, certifies that the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report n° 11612/2771.

(9) Compliance with the Essential Health and Safety Requirements has been achieved by (indicated with):
EN 60079-0 : 2012 EN 61010-1 : (11)

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and construction of the equipment and protective systems according to the Directive 94/9/EC. Further requirements of the directive apply to the installation, operation, maintenance and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

Ex II 2 G Ex ia IIC T6 Gb
II 2 D Ex ia IIC T85°C Db

This certificate is issued on 17 December 2013 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.
Certification Manager

Page 1/3

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem, P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Registered Arnhem 09265396



Note:
We do not recommend to use FBCon products in strong saline environments.

1-channel distributor Ex



Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 1way Ex	branch line CG	1	8564180000

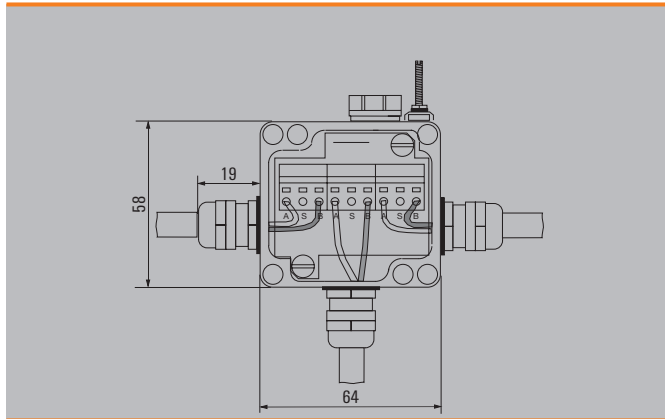
1-channel distributor Ex



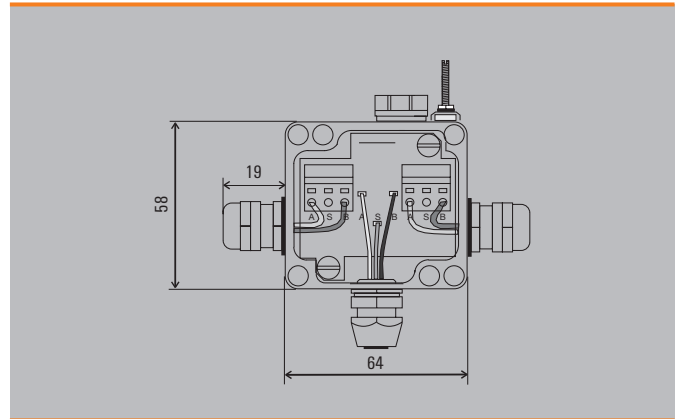
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 1way Ex	branch line M12	1	8564150000

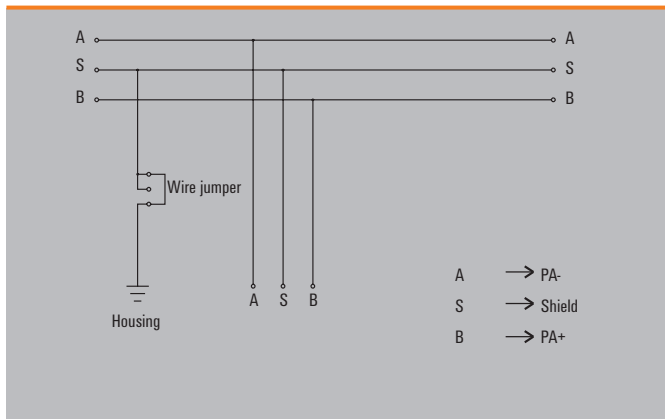
Dimensioned drawing



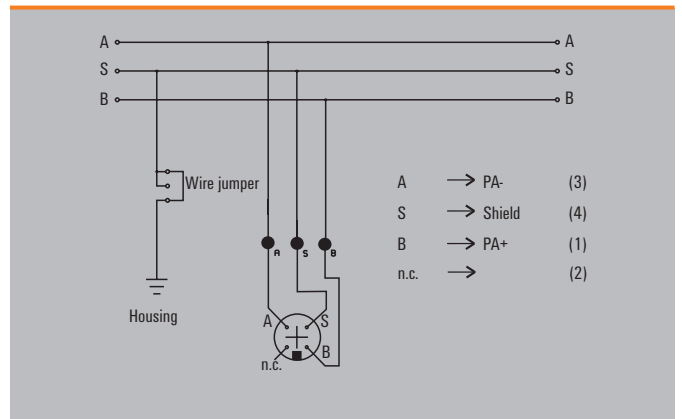
Dimensioned drawing



Wiring diagram



Wiring diagram



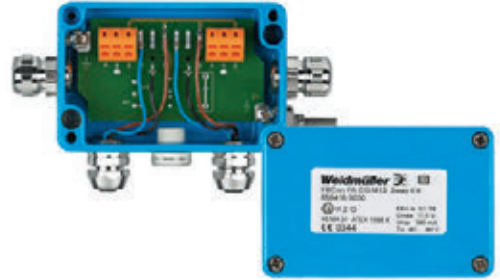
2-channel distributor Ex



Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 2way Ex	branch line CG	1	8564190000

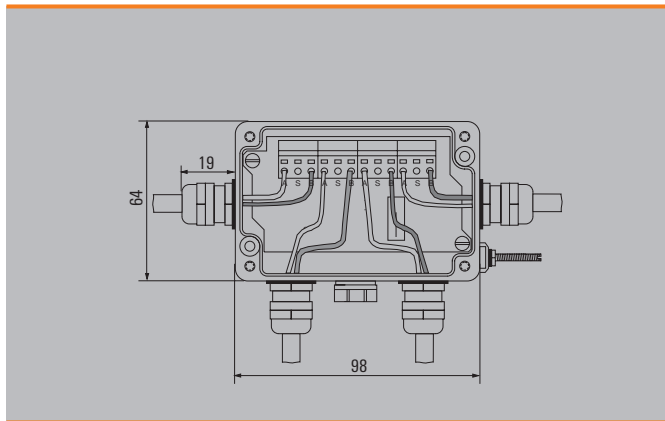
2-channel distributor Ex



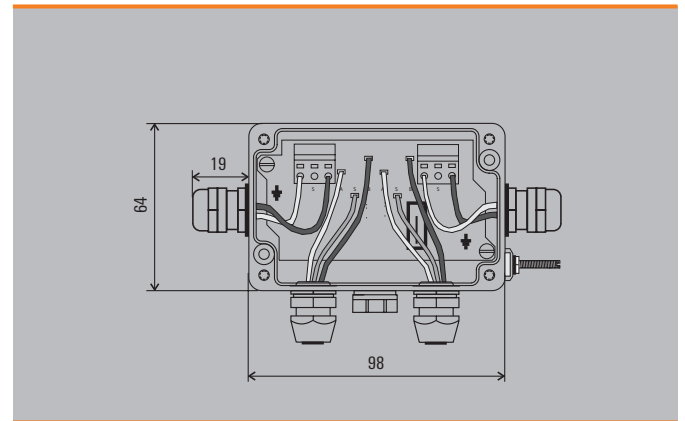
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 2way Ex	branch line M12	1	8564160000

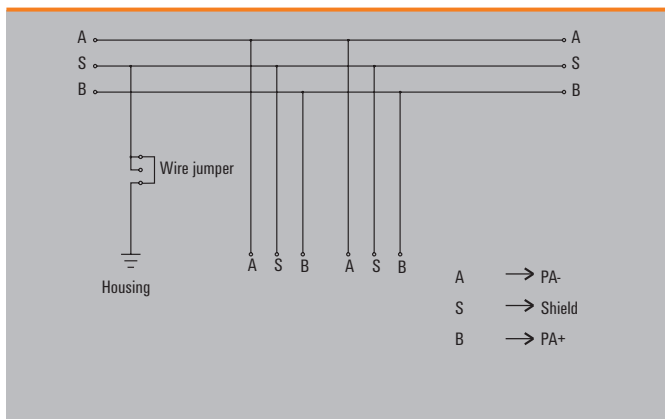
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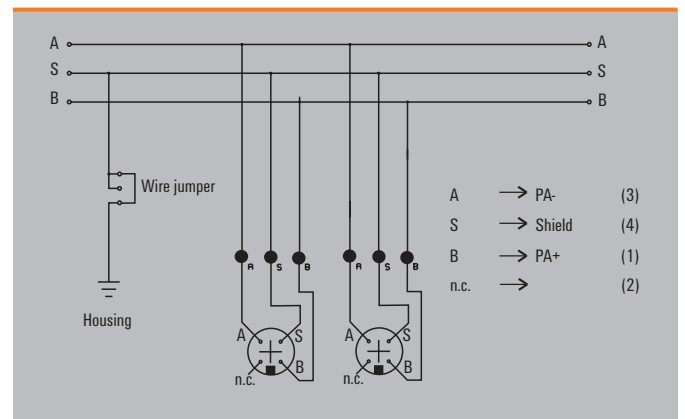
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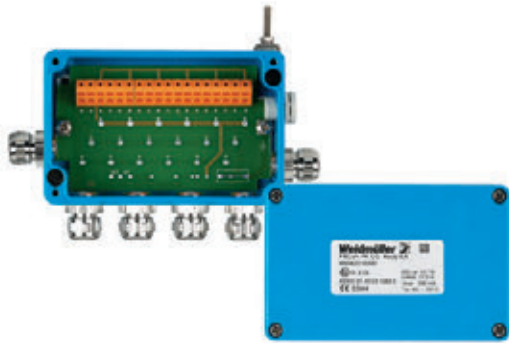
Wiring diagram



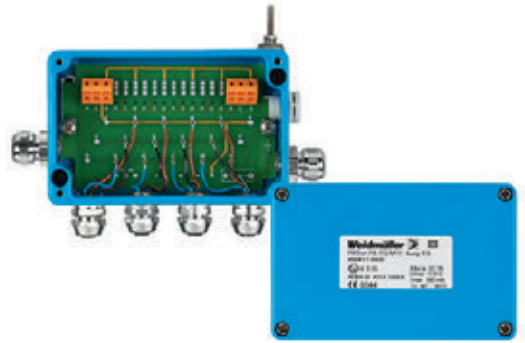
Wiring diagram



4-channel distributor Ex



4-channel distributor Ex



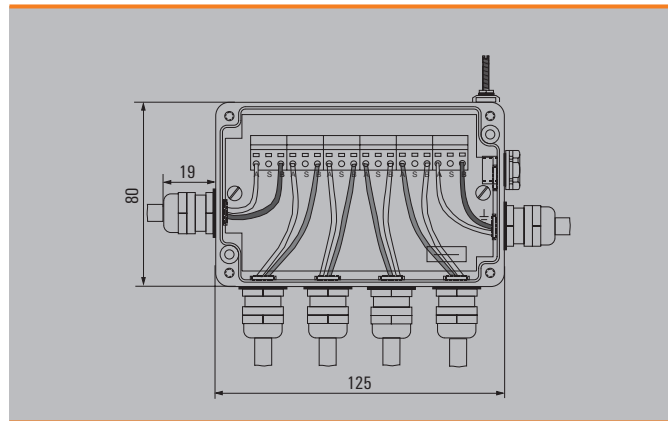
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 4way Ex	branch line CG	1	856420000

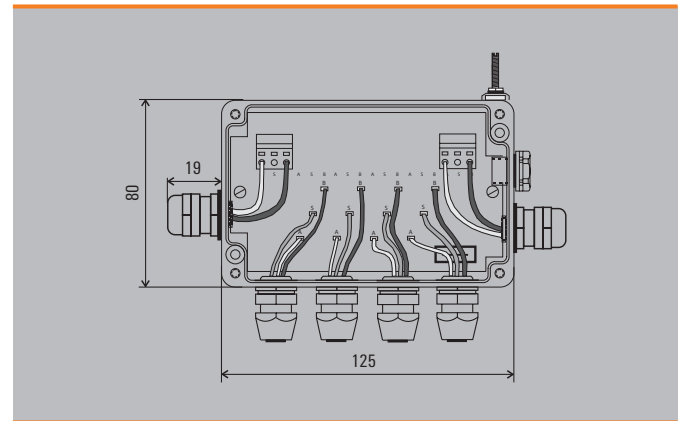
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 4way Ex	branch line M12	1	856417000

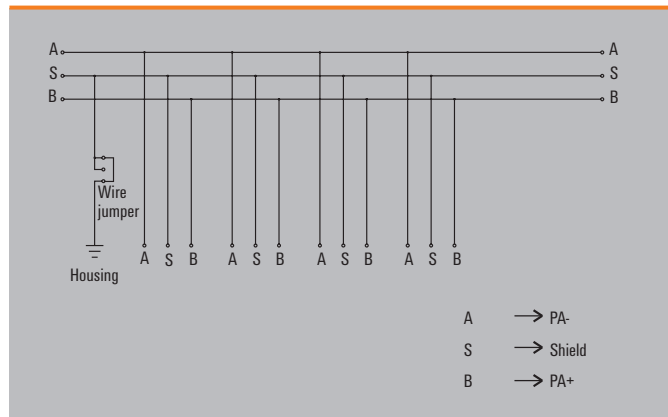
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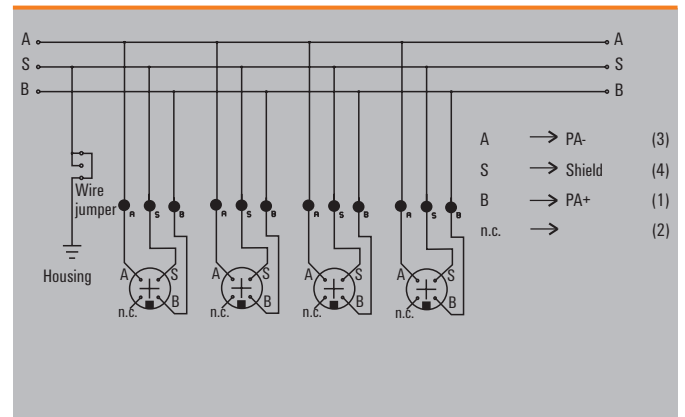
Dimensioned drawing



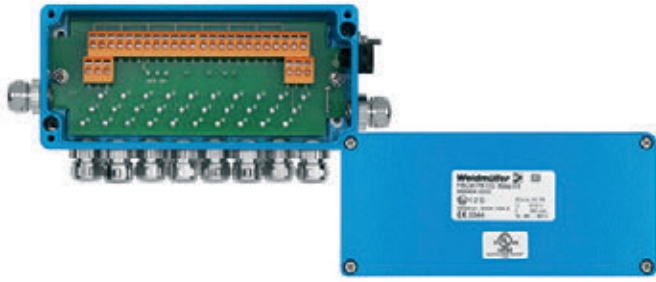
Wiring diagram



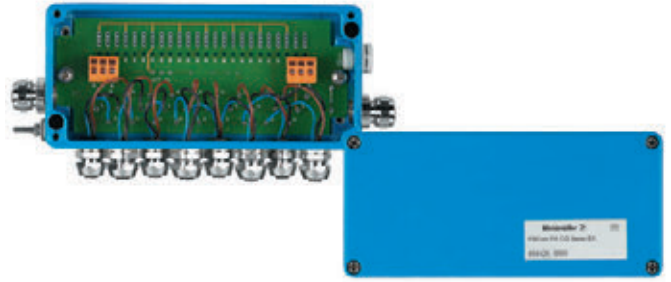
Wiring diagram



8-channel distributor Ex



8-channel distributor Ex



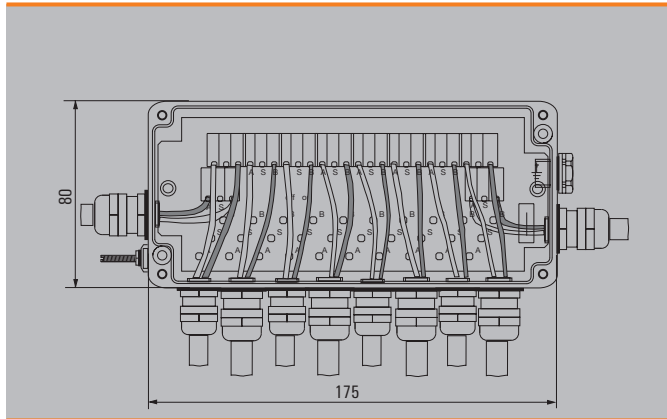
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG 8way Ex	branch line CG	1	8564240000

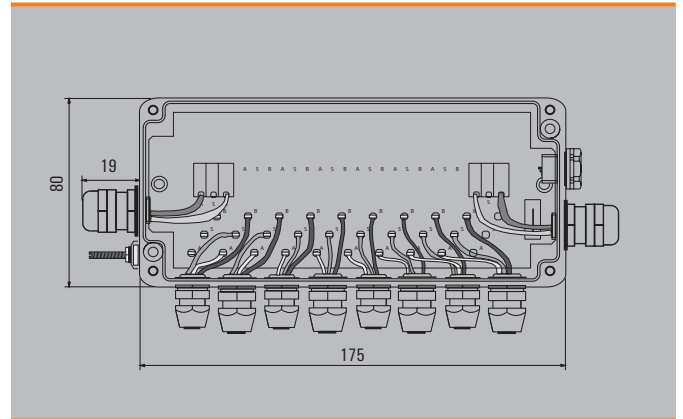
Ordering data

Type	Cable gland	QTY	Order No.
Aluminium enclosure			
FBCon PA CG/M12 8way Ex	branch line M12	1	8564250000

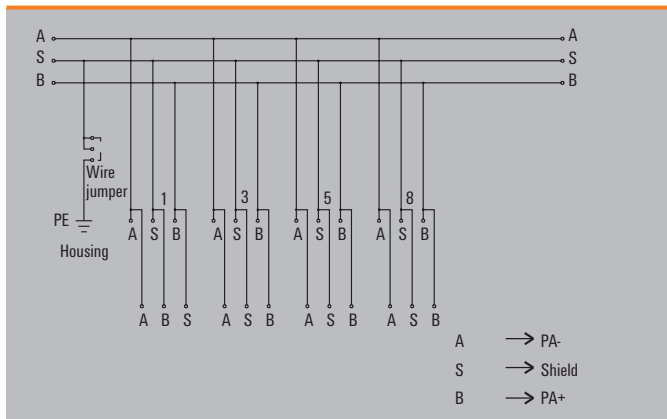
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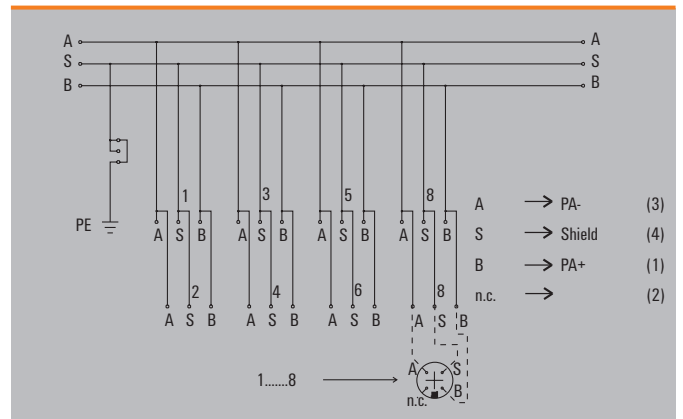
Dimensioned drawing



Wiring diagram



Wiring diagram

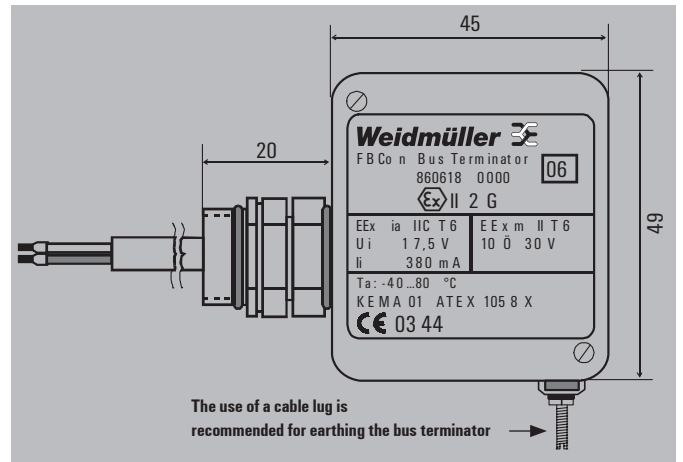
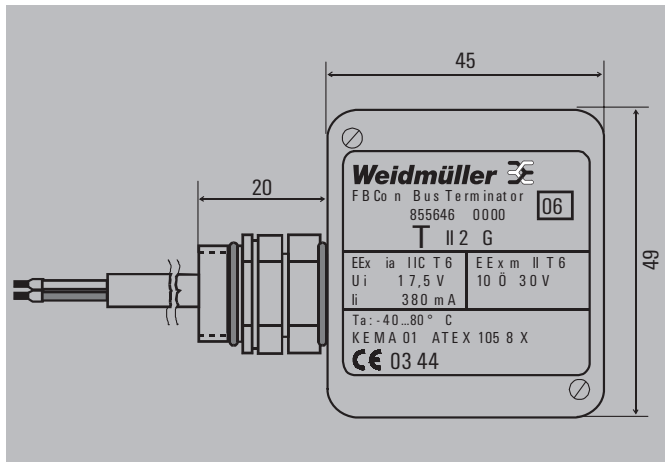


FBCon bus terminator

FBCon bus terminator without earth connection



FBCon Bus Terminator with earth connection



Technical data

Operating temperature	-40 °C to 80 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (Al - Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm ²
Cable entry	Bus adapter M16

Technical data

Operating temperature	-40 °C to 80 °C
Ingress protection class	IP 66
Enclosure material	High grade aluminium alloy (Al - Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm ²
Cable entry	Bus adapter M16

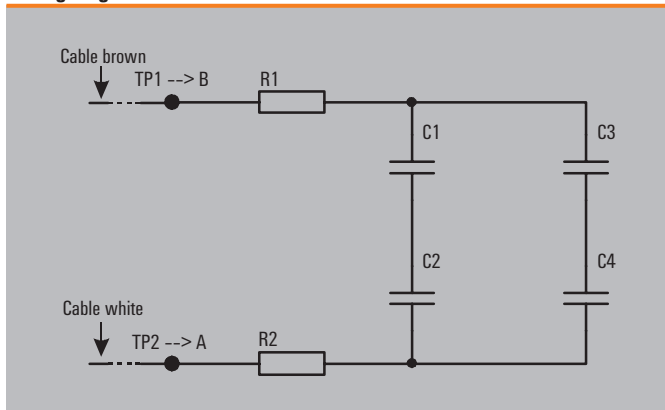
Ordering data

Type	Qty.	Order No.
FBCon Bus Terminator EEx with locking clip, without earth connection	1	8556460000
FBCon Bus Terminator EEx without locking clip, without earth connection	1	8606190000

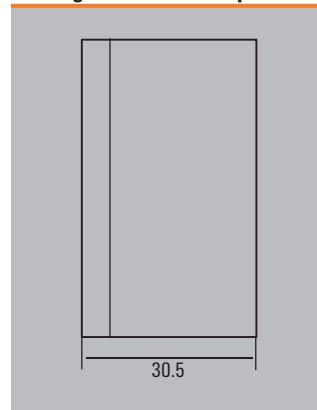
Ordering data

Type	Qty.	Order No.
FBCon Bus Terminator EEx with locking clip, with earth connection	1	8606180000
FBCon Bus Terminator EEx without locking clip, with earth connection	1	8606200000

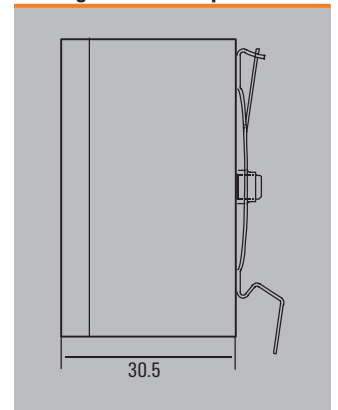
Wiring diagram



Housing cover without clip-on foot



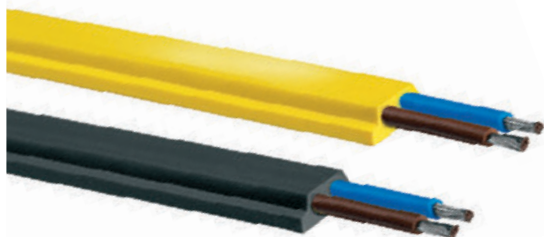
Housing cover with clip-on foot





AS-Interface ribbon cables

AS-Interface ribbon cable, rubber



Technical data

Use	AS-Interface
Colour	yellow, black
Type of cable	profiled cable
Conductor cross-section	2 x 1.5 mm ²
Material	EPDM (rubber)
Halogen-free	yes
Temperature range (at rest)	-40 °C ... +85 °C
Temperature range (moving)	-25 °C ... +85 °C
Flammability class	flammable
Ozone/weather-resistant	partially resistant
Minimum bending radii	fixed: 12 mm movable: 24 mm
Flexural properties	no break after 30,000 backward and forward movements

Coupling module single from ribbon cable to round cable



Technical data

Connection AS-Interface	ribbon cable
No. connectable cables	1
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm ²
Connection type	piercing technology
Outlet line	
Type of cable	PUR
Conductor cross-section	0.34 mm ²
Cable length	2 m
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	-25 °C ... +75 °C
Storage temperature	-40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 67
Weight	20 g
M12 Pin assignment	
Pin 1: blue	AS-Interface „+“ blue
Pin 3: brown	AS-Interface „-“ brown

Ordering data

Type	Designation	Qty.	Order No.
AS-KG-ge	Ribbon cable yellow	100 m	9455110000
AS-KG-sw	Ribbon cable black	100 m	9455120000

Ordering data

Type	Qty.	Order No.
SAI-ASI T FR	1	1925010000

Bridge module ribbon cable



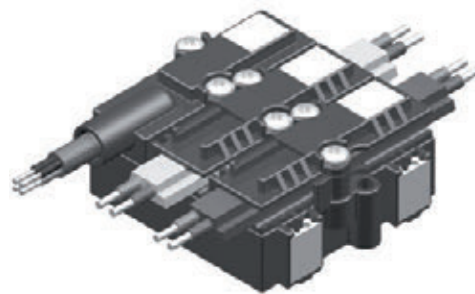
Technical data

Connection AS-Interface	ribbon cable
No. connectable cables	2
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm ²
Connection type	piercing technology
Outlet line	
Type of cable	PUR solid
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	-25 °C ... +75 °C
Storage temperature	-40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 65
Weight	20 g without cable

Ordering data

Type	Qty.	Order No.
SAI-ASI T FF small	1	1026090000

Coupling module ribbon cable to round cable / yellow + black (2 m)



Technical data

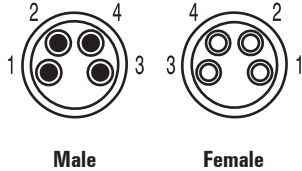
Connection AS-Interface	ribbon cable
No. connectable cables	2
Type of cable	ribbon cable, yellow + black
Flexible lead cross-section	1.5 mm ²
Connection type	piercing technology
Outlet line	
Type of cable	PUR
Conductor cross-section	0.34 mm ²
Cable length	2 m
Operating voltage	≤ 40 V
Operating current	≤ 4 A
General data	
Pollution severity DIN EN 0110	3
Ambient temperature	-25 °C ... +75 °C
Storage temperature	-40 °C ... +85 °C
Housing material	PA 6-GF-FR
Shock resistance	30 g/11 ms
Vibration resistance	10 ... 55 Hz; 1.0 mm amplitude
Specific data	
Ingress protection class DIN 40050	IP 65 / IP 67
Weight	50 g without cable
M12 Pin assignment	
Pin 1: brown	AS-Interface „+“
Pin 2: white	ext. power supply „-“
Pin 3: blue	AS-Interface „-“
Pin 4: black	ext. power supply „+“

Ordering data

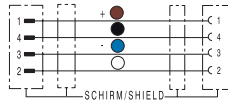
Type	Qty.	Order No.
SAI-ASI T FFR	1	1924980000

CANopen & DeviceNet™ - cables

The four-pole Standard M8 sensor cables are especially well suited for the Universal Pro system. With their diameter of 0.34 mm², these cables allow a system to be expanded up to 50 meters. The 360° shielding guarantees that signal transmission is error-free.



Universal Pro cables



Terminating resistor



Technical data

Cable construction

No. of poles
Sheathing colour
Material
Core cross-section
Contact surface
Nominal voltage
Rated current
Protection class
Ambient temperature, min.
Ambient temperature, max.

4
grey
PUR/PUR
0.34 mm²
Gold-plated
30 V
4 A
IP 67
-30 °C
90 °C

Note

Ordering data

Male, straight - female, straight

0.3 m
1.0 m
1.5 m
3.0 m
5.0 m
10.0 m
15.0 m
20.0 m

Type	Qty.	Order No.
SAIL-M8GM8G-4S-0.3Q-SB	1	1981900030
SAIL-M8GM8G-4S-1.0Q-SB	1	1981900100
SAIL-M8GM8G-4S-1.5U-SB	1	1981900150
SAIL-M8GM8G-4S-3.0Q-SB	1	1981900300
SAIL-M8GM8G-4S-5.0Q-SB	1	1981900500
SAIL-M8GM8G-4S-10Q-SB	1	1981901000
SAIL-M8GM8G-4S-15Q-SB	1	1981901500
SAIL-M8GM8G-4S-20Q-SB	1	1981902000

Female, straight - open end

1.5 m
3.0 m
5.0 m
10.0 m

SAIL-M8BG-4S-1.5U-SB	1	1981910150
SAIL-M8BG-4S-3.0Q-SB	1	1981910300
SAIL-M8BG-4S-5.0Q-SB	1	1981910500
SAIL-M8BG-4S-10Q-SB	1	1981911000

Note

Other versions on request

Ordering data - Terminating resistor

Type	Qty.	Order No.
SAI END CAN M8 4P	1	1955340000

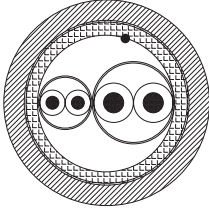
Note

Dimensioned drawing



L in the drawing is the cable length

CANopen

PROFI®
PROCESS FIELD BUS
BUS

CAN / DeviceNet™ bulk lengths



Technical data

Component A (1x2x0.34) ST	
Conductor	Tin-plated copper 0.34 mm ² (19 wires) according to UL 1581 Tab 20.1
Insulation	Polyolefine mixture according to UL Style 80 °C 30 V colour code: 2 conductor red/black Diameter: 1.6 ±0.1 mm
Assembly	Two twisted conductors + aluminium-polyester band (Ai exterior)
Element B (1x2x0.22) ST	
Conductor	Tin-plated copper 0.22 mm ² (19 wires) according to UL 1581 Tab 20.1
Insulation	Polyethylene foam skin Colour code: 2 conductors white/blue Diameter: approx. 2.0 mm
Assembly	Two twisted conductors + aluminium-polyester band (Ai exterior)
Complete assembly	Element A + Element B drilled
Drain wire	Tin-plated copper 0.34 mm ² (19 wires) according to UL 1581 Tab 20.1
Shield	Tin-plated copper braiding, coverage 85 ± 5 %
Band	Fibre band
Outer cladding	Polyurethane mixture according to UL Style 80 °C 30 V Colour code: black RAL 9005
Marking	Not required
General characteristics	
Nom. impedance 0.3-20 MHz	(pair 2 x 0.22 mm ²) - 120 ±10 % Ω
Nominal power rating 800 Hz	(pair 2 x 0.22 mm ²) - 39 pF/mt
Operating voltage	Low-voltage computer cable
Test voltage	1000 V
Conductor resistance	Conductor A: max. 55 Ω/km at 20 °C Conductor B: max. 90 Ω/km at 20 °C
Min. bending radius	5 x D (during installation) 10 x D (during operations)
Temperature range	-40 °C...+80 °C (during installation) -10 °C ... +80 °C (during operations)
Reference	UL 1581
Attenuation (max.) (pair 0.22 mm ²)	0.5 MHz ... 1.64 db/100 mt 1.0 MHz ... 2.30 db/100 mt
Max. speed	180 mt/min
Max. acceleration	5 mt/s ²
Copper weight	33.6 kg/km (approx.)
Total weight	79 kg/km (approx.)

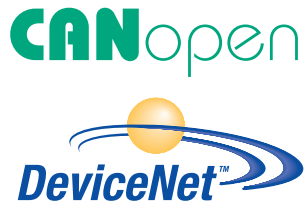
Note

Ordering data

Type	Order No.
SAIH-CD-2x0.34/2x0.22-PURs	1058630000

Note 4-pole

M12 screw connection
with shield connection
A-coded



SAIS / SAIB

Straight



SAISW / SAIBW

Angled



Ordering data

Male	Female
5-pole, PG 9	5-pole, PG 9
Note	

Type	QTY	Order No.
SAIS-M-5/8S M12 5P A-COD	1	1784740000
SAIB-M-5/8S M12 5P A-COD	1	1784750000
Other versions on request		

Type	QTY	Order No.
SAISW-M-5/8 M12	1	1803940000
SAIBW-M-5/8 M12	1	1803920000
Other versions on request		

Technical data

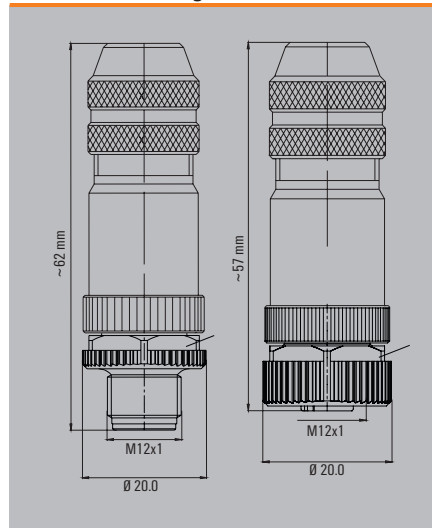
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	4...6 mm (PG7)/ 6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

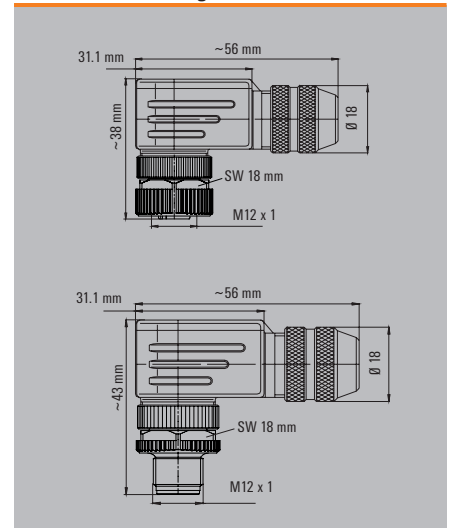
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

J

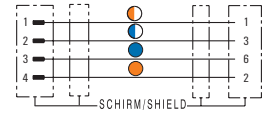
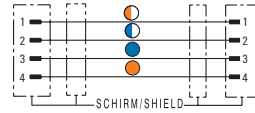
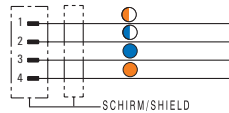
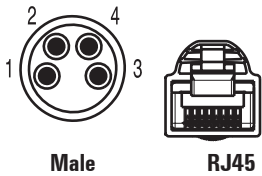
Dimensioned drawing



Dimensioned drawing



One end without connector
M8 connecting cable
M8 to M8
M8 to RJ45



Ordering data

Length	Ordering code
0.1 m	SAIL-M8G-4S0.1UIE
0.3 m	SAIL-M8G-4S0.3UIE
0.5 m	SAIL-M8G-4S0.5UIE
1.0 m	SAIL-M8G-4S1.0UIE
2.0 m	SAIL-M8G-4S2.0UIE
3.0 m	SAIL-M8G-4S3.0UIE
4.0 m	SAIL-M8G-4S4.0UIE
5.0 m	SAIL-M8G-4S5.0UIE
7.5 m	SAIL-M8G-4S7.5UIE
10.0 m	SAIL-M8G-4S10UIE
15.0 m	
20.0 m	
30.0 m	
40.0 m	
50.0 m	

M8 Male-Open Ended	4-pole
SAIL-M8G-4S0.1UIE	1160820010
SAIL-M8G-4S0.3UIE	1160820030
SAIL-M8G-4S0.5UIE	1160820050
SAIL-M8G-4S1.0UIE	1160820100
SAIL-M8G-4S2.0UIE	1160820200
SAIL-M8G-4S3.0UIE	1160820300
SAIL-M8G-4S4.0UIE	1160820400
SAIL-M8G-4S5.0UIE	1160820500
SAIL-M8G-4S7.5UIE	1160820750
SAIL-M8G-4S10UIE	1160821000

M8 Male-Male	4-pole
SAIL-M8GM8SG-4S0.1UIE	1160930010
SAIL-M8GM8SG-4S0.3UIE	1160930030
SAIL-M8GM8SG-4S0.5UIE	1160930050
SAIL-M8GM8SG-4S1.0UIE	1160930100
SAIL-M8GM8SG-4S2.0UIE	1160930200
SAIL-M8GM8SG-4S3.0UIE	1160930300
SAIL-M8GM8SG-4S4.0UIE	1160930400
SAIL-M8GM8SG-4S5.0UIE	1160930500
SAIL-M8GM8SG-4S7.5UIE	1160930750
SAIL-M8GM8SG-4S15UIE	1160931500
SAIL-M8GM8SG-4S20UIE	1160932000
SAIL-M8GM8SG-4S30UIE	1160933000
SAIL-M8GM8SG-4S40UIE	1160934000
SAIL-M8GM8SG-4S50UIE	1160935000

M8 Male-RJ45	4-pole
SAIL-M8GRJ45-4S2.0UIE	1201210200
SAIL-M8GRJ45-4S5.0UIE	1201210500
SAIL-M8GRJ45-4S7.5UIE	1201210750
SAIL-M8GRJ45-4S10UIE	1201211000

Note

Standard cable lengths

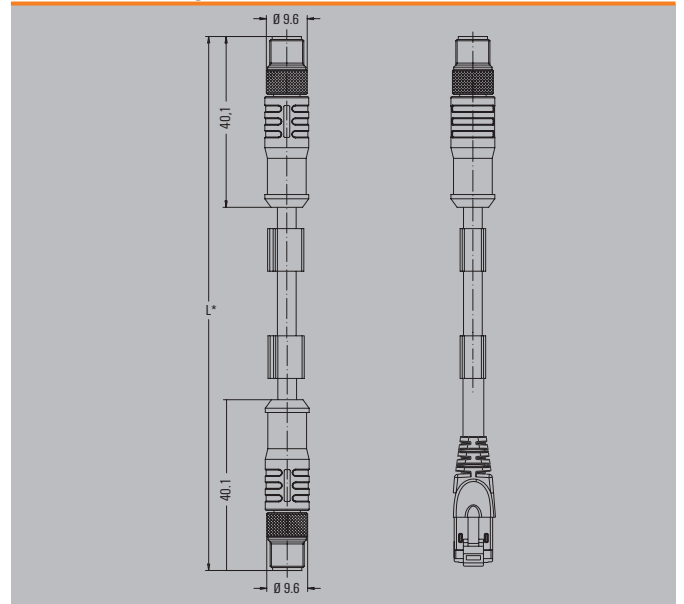
All cables listed in the ordering data have a length of 1.5 metres. The last four ordering digits must be changed when ordering other standard cable lengths.	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

Technical data

Protection degree	IP67
Contact surface	Gold-plated
Sheathing colour	Green
Temperature range of housing	-25...+80 °C
Core cross-section	0.15 mm ²

Chapter W includes additional technical specifications for the cable

Dimensioned drawing



**Assembled cable -
dragline cable M12**

- Cat. 5
- PUR
- D-coded
- PROFINET type C

M12 / open

Plug / -



M12 / RJ45

Plug / plug



--	--

	M12
yellow	1
white	2
orange	3
blue	4

RJ45	M12	
1	yellow	1
3	white	2
2	orange	3
6	blue	4

Technical data

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / Open
Cross-section	4*AWG 22/7 - 0.36 mm ²
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation cross-section	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s ²
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Note	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm ²
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation cross-section	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s ²
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Note	

Product type	Dragline cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / RJ45 IP 20
Cross-section	4*AWG 22/7 - 0.36 mm ²
Sheath diameter, max.	6.7 mm
Material sheath	PUR
Sheathing colour	green (RAL 6018)
Insulation cross-section	1.5 mm
Min. bending radius, repetitive	7.5 *diameter
Min. bending radius, once only	5 *diameter
Bending cycles	3 Mio
Speed	180 m/min
Acceleration	4 m/s ²
Pulling force	≤ 150 N
Ambient temperature (operational)	-40 °C...70 °C
Installation temperature	-20 °C...60 °C
Storage temperature	-50 °C...70 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1
Note	

Ordering data

	1.0 m
	1.5 m
	3.0 m
	5.0 m
	10.0 m
Note	

Type	QTY	Order No.
IE-C5DD4UG0015MCSXXX-X	1	1025940015
IE-C5DD4UG0030MCSXXX-X	1	1025940030
IE-C5DD4UG0050MCSXXX-X	1	1025940050
IE-C5DD4UG0100MCSXXX-X	1	1025940100

Type	QTY	Order No.
IE-C5DD4UG0010MCSA20-E	1	1044470010
IE-C5DD4UG0015MCSA20-E	1	1044470015
IE-C5DD4UG0030MCSA20-E	1	1044470030
IE-C5DD4UG0050MCSA20-E	1	1044470050
IE-C5DD4UG0100MCSA20-E	1	1044470100

Accessories

Sheathing stripper	
	For UTP and STP data cables
	For coaxial and round data cables
Markers	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
Mounting tool	
	Tool set
	Tool set with torque function
	Screwty-M12-DM
	Screwty-M12
Note	

Type	QTY	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
Screwty Set	1	1910000000
Screwty Set -DM	1	1920000000
Screwty-M12-DM	1	1900001000
Screwty- M12	1	1900000000

Type	QTY	Order No.
TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687
Screwty Set	1	1910000000
Screwty Set -DM	1	1920000000
Screwty-M12-DM	1	1900001000
Screwty- M12	1	1900000000

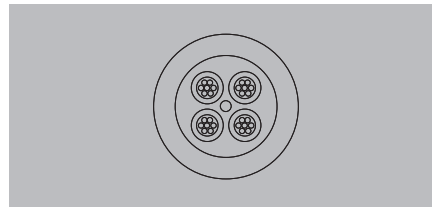
Ethernet cables

Assembled cable -
M12 dragline cable, angled

- Cat. 5
- PUR
- D-coded
- PROFINET type C

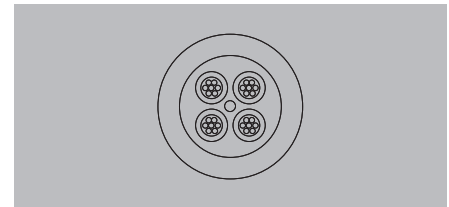
M12 / M12

Plug / plug



M12 / M12

Plug / plug



Technical data

Product type
Category
Shielding
Version connector left / Version connector right
Cross-section
Sheath diameter, max.
Material sheath
Sheathing colour
Insulation cross-section
Min. bending radius, repetitive
Ambient temperature (operational)
Installation temperature
Storage temperature
Abrasion resistance
Halogen
Resistance to oils
Fire safety for railway vehicles

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 IP 67 straight male / M12 IP 67 straight male
4*AWG 22/7 - 0.36 mm ²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 *diameter
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60811-2-1

Dragline cable
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
SF/UTP
M12 IP 67 angled male / M12 IP 67 angled male
4*AWG 22/7 - 0.36 mm ²
6.7 mm
PUR
green (RAL 6018)
1.5 mm
7.5 *diameter
-40 °C...70 °C
-20 °C...60 °C
-50 °C...70 °C
very good
halogen-free, according to IEC 60754-2
in accordance with IEC 60811-2-1

Note

Ordering data

Cat. 5 PROFINET. PUR. M12 straight-M12 angled	
1.5 m	
3.0 m	
5.0 m	
10.0 m	
Cat. 5 PROFINET. PUR. M12 angled-M12 angled	
1.5 m	
3.0 m	
5.0 m	
10.0 m	
Cat. 5. PUR. M12 angled-open	
1.5 m	
3.0 m	
5.0 m	
10.0 m	

Type	QTY	Order No.
IE-C5DD4UG0015MCSMCA-E	1	1059770015
IE-C5DD4UG0030MCSMCA-E	1	1059770030
IE-C5DD4UG0050MCSMCA-E	1	1059770050
IE-C5DD4UG0100MCSMCA-E	1	1059770100

Type	QTY	Order No.
IE-C5DD4UG0015MCAMCA-E	1	1059890015
IE-C5DD4UG0030MCAMCA-E	1	1059890030
IE-C5DD4UG0050MCAMCA-E	1	1059890050
IE-C5DD4UG0100MCAMCA-E	1	1059890100

Note

Accessories

Markers	
Insertion label, yellow, 12 mm	
Insertion label, yellow, 18 mm	
Transparent sleeves, 12-mm length	
Transparent sleeves, 18-mm length	

Type	QTY	Order No.
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Type	QTY	Order No.
TM-H 12 MC NE GE	320	1718411687
TM-H 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note

Ethernet cables

Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / M12

Plug / plug



M12 / M12

Plug / socket



M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

M12		M12
1	yellow	1
2	white	2
3	orange	3
4	blue	4

Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / M12 IP 67 straight male
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm ²
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation cross-section	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / M12 IP 67 straight socket
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm ²
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation cross-section	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / M12 IP 67 straight socket
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm ²
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation cross-section	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note

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Ordering data

	1.5 m
	3.0 m
	5.0 m
	10.0 m

Note

Type	QTY	Order No.
IE-C5DB4RE0015MCSMCS-E	1	1010850015
IE-C5DB4RE0030MCSMCS-E	1	1010850030
IE-C5DB4RE0050MCSMCS-E	1	1010850050
IE-C5DB4RE0100MCSMCS-E	1	1010850100

Type	QTY	Order No.
IE-C5DB4RE0015MSSMCS-E	1	1059340015
IE-C5DB4RE0030MSSMCS-E	1	1059340030
IE-C5DB4RE0050MSSMCS-E	1	1059340050
IE-C5DB4RE0100MSSMCS-E	1	1059340100

Accessories

Sheathing stripper	For UTP and STP data cables For coaxial and round data cables
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Markers	Insertion label, yellow, 12 mm Insertion label, yellow, 18 mm
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Type	QTY	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Type	QTY	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687

Note

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Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 straight male / Open
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm ²
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation cross-section	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note		
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Ordering data

	1.5 m
	3.0 m
	5.0 m
	10.0 m

Type	QTY	Order No.
IE-C5DB4RE0015MCSXXX-X	1	1010840015
IE-C5DB4RE0030MCSXXX-X	1	1010840030
IE-C5DB4RE0050MCSXXX-X	1	1010840050
IE-C5DB4RE0100MCSXXX-X	1	1010840100

Note	
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Accessories

Sheathing stripper	For UTP and STP data cables
	For coaxial and round data cables

Type	QTY	Order No.
AM 12	1	9030060000
IE-CST	1	9204350000

Markers	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm

TMH 12 MC NE GE	320	1718411687
TMH 18 MC NE GE	320	1718431687

Note	
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Note		
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Assembled cable - railway cable M12

- Cat. 5
- Radox
- D-coded

M12 / open

Plug / -



	M12
yellow	1
white	2
orange	3
blue	4

Technical data

Product type	System cable
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Shielding	SF/UTP
Version connector left / Version connector right	M12 IP 67 angled male / Open
Cross-section	2*2*AWG 22/7 - 2*2*0.36 mm ²
Sheath diameter, max.	7.55 mm
Material sheath	Radox GKW S
Sheathing colour	Black
Insulation cross-section	1.95 mm
Min. bending radius, repetitive	6 *diameter
Ambient temperature (operational)	-40 °C...90 °C
Installation temperature	-25 °C...90 °C
Storage temperature	-40 °C...90 °C
Abrasion resistance	very good
Halogen	halogen-free, according to IEC 60754-2
Resistance to oils	in accordance with EN 50306-3
Fire safety for railway vehicles	According to DIN 5510-2 fire safety levels 1,2,3,4, According to BS 6853, According to EN50288-2-2, According to EN 45545, HL1 - HL3

Note		
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Ordering data

	1.5 m
	3.0 m
	5.0 m
	10.0 m

Type	QTY	Order No.
IE-C5DB4RE0015MCAXXX-X	1	1059900015
IE-C5DB4RE0030MCAXXX-X	1	1059900030
IE-C5DB4RE0050MCAXXX-X	1	1059900050
IE-C5DB4RE0100MCAXXX-X	1	1059900100

Note	
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Accessories

Markers	
	Insertion label, yellow, 12 mm
	Insertion label, yellow, 18 mm
	Transparent sleeves, 12-mm length
	Transparent sleeves, 18-mm length

Type	QTY	Order No.
TM-I 12 MC NE GE	320	1718411687
TM-I 18 MC NE GE	320	1718431687
TM 4/12 HF/HB	500	1719840000
TM 4/18 HF/HB	500	1719850000

Note	
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Note		
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Ethernet plug-in connector

M12 screw connection
with shield connection
D-coded

Industrial Ethernet

SAISM / SAIBM

Straight



SAISW

Angled



Ordering data

Male	4-pole, PG 9
Female	4-pole, PG 9
Note	

Type	QTY	Order No.
SAISM-4/8S-M12-4P D-COD	1	1892120000
SAIBM-4/8S-M12-4P D-COD	1	1892130000

Type	QTY	Order No.
SAISW-4/8S-M12-4P D-COD	1	1160550000

Technical data

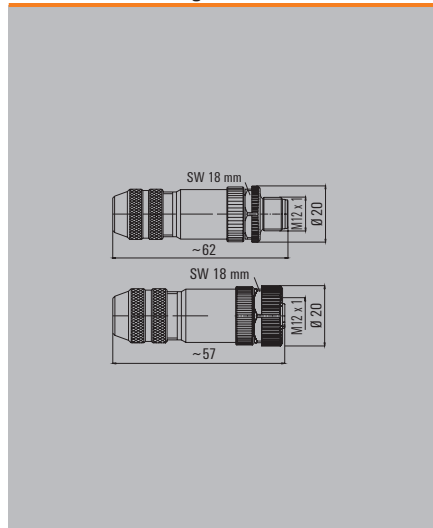
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.75 mm ²
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.75 mm ²
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

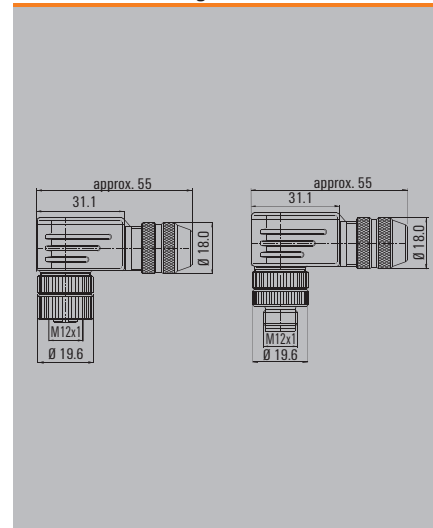
Type of connection	Screw connection
Housing main material	CuZn
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.14...0.75 mm ²
Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP67
Contact surface	Gold-plated
Note	

J

Dimensioned drawing



Dimensioned drawing



M12 tension-clamp connection, stainless steel
with shield connection
D-coded

SAIS / SAIB VA

Industrial Ethernet



Ordering data

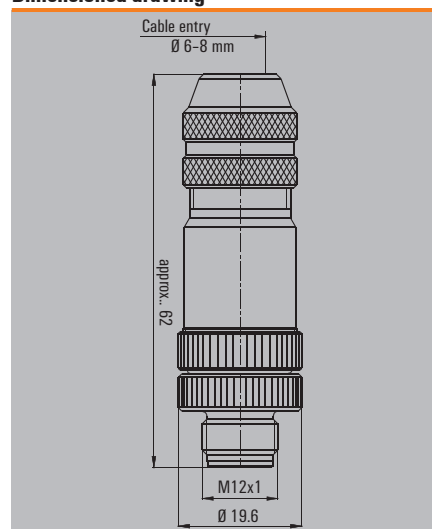
Male	5-pole, PG 9
Note	

Type	QTY	Order No.
SAIS 5/9-VA D-COD	1	1920700001

Technical data

Type of connection	Tension clamp connection
Housing main material	1.4404/316L
connection thread	M12
Cable diameter	6...8 mm (PG9)
Wire cross-section, min. / max.	0.25...0.5 mm ²
Rated current	4 A
Rated voltage	125 V
Temperature range of housing	-40 ... +85 °C
Protection degree	IP69K
Contact surface	Gold-plated
Note	

Dimensioned drawing



Customisable connectors

M12 crimp connection
with shield connection
D-coded

Industrial Ethernet

SAISC / SAISWC



SAIM



Ordering data

Male	
	4-pole, straight
	4-pole, angled
Note	

Type	QTY	Order No.
SAISC-M-4/8S-M12-D-COD	1	1467840000
SAISWC-M-4/8S-M12-D-COD	1	1467850000
Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000		

Type	QTY	Order No.
SAI-M12-KSC-0.34/0.5	100	1468860000

Technical data

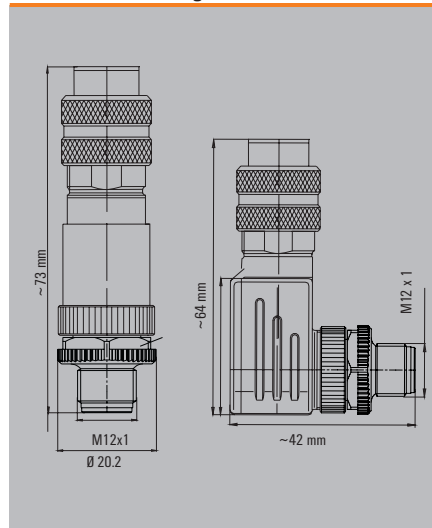
Type of connection	
Housing main material	
connection thread	
Cable diameter	
Wire cross-section, min. / max.	
Rated current	
Rated voltage	
Temperature range of housing	
Protection degree	
Contact surface	
Note	

Crimp connection	
CuZn	
M12	
5...8 mm	
0.34...0.5 mm ²	
4 A	
250 V	
-40 ... +85 °C	
IP67	
Gold-plated	
Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000	

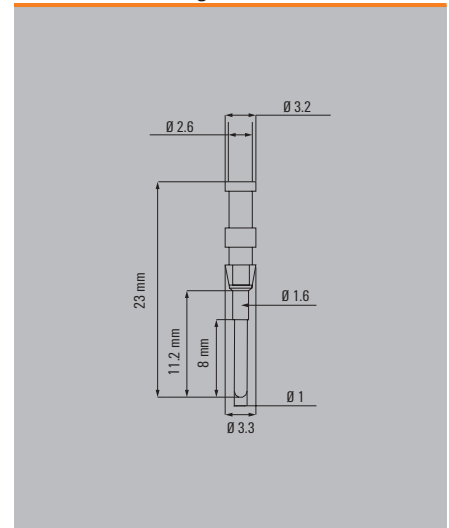
Crimp connection	
4 A	
250 V	
Gold-plated	
Crimp contacts must be ordered separately. Part number of crimp contacts: 1468860000	

J

Dimensioned drawing

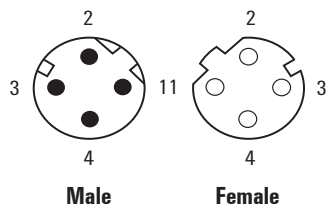


Dimensioned drawing



M12 crimp connection
D-coded

Industrial Ethernet



SAISC



Ordering data

Ethernet cables	
Male	SAISC-D-RR-6.6-C5
Female	SAIBC-D-RR-6.6-C5
Male	SAISC-D-RR-7.3-C5
Female	SAIBC-D-RR-7.3-C5
Male	SAISC-D-RR-8.3-C5
Female	SAIBC-D-RR-8.3-C5
PROFINET cables	
Male	SAISC-D-PN-6.5-C5
Female	SAIBC-D-PN-6.5-C5

Note

Technical data

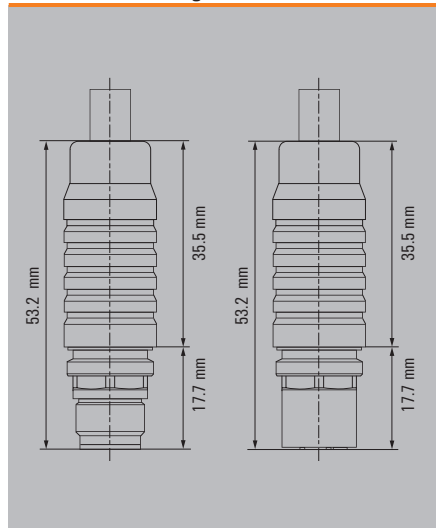
Cable gland	M 12
Coding	D
Protection degree	IP67
No. of poles	4
Rated voltage	50 V
Rated current	4 A
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Connection cross-section min. / max.	0.34...0.5 mm ²
Cable diameter, max.	6.5 mm
Temperature range of housing	-40 ... +85 °C
Plugging cycles	≥ 200

Note

Type	QTY	Order No.
SAISC-D-RR-6.6-C5	1	1380560000
SAIBC-D-RR-6.6-C5	1	1380570000
SAISC-D-RR-7.3-C5	1	1380540000
SAIBC-D-RR-7.3-C5	1	1380550000
SAISC-D-RR-8.3-C5	1	1380580000
SAIBC-D-RR-8.3-C5	1	1380590000
SAISC-D-PN-6.5-C5	1	1380610000
SAIBC-D-PN-6.5-C5	1	1380620000

Female Order No.	Male Order No.	Coding	Cable type	HUBER + SUHNER Order No.
1380550000	1380540000	D	Radox Railcat Databus CAT5 7.3 mm	12568935
1380570000	1380560000	D	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380590000	1380580000	D	Radox Railcat CAT5 4 x 0.5 mm ² XCS 8.3 mm	12585489
1380620000	1380610000	D	PROFINET 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

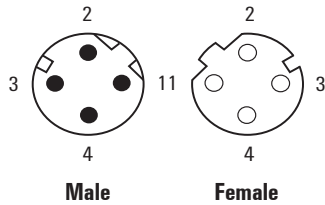
Dimensioned drawing



Customisable connectors

M12 crimp connection
Panel feed-through
D-coded

Industrial Ethernet



SAIBC



Ordering data

Ethernet cables	
	Female
	Female
	Female
PROFINET cables	
	Female
Note	

Type	QTY	Order No.
SAIBC-WDF-D-RR-6.6-C5	1	1380640000
SAIBC-WDF-D-RR-7.3-C5	1	1380630000
SAIBC-WDF-D-RR-8.3-C5	1	1380650000
SAIBC-WDF-D-PN-6.5-C5	1	1380670000

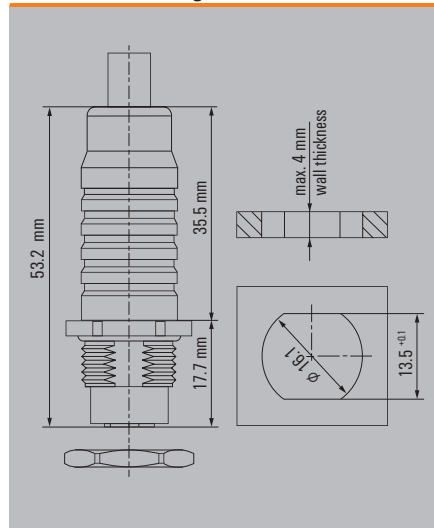
Technical data

Cable gland
Coding
Protection degree
No. of poles
Rated voltage
Rated current
Category
Connection cross-section min. / max.
Cable diameter, max.
Temperature range of housing
Plugging cycles
Note

M 16
D
IP67
4
50 V
4 A
Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
0.34...0.5 mm ²
-40 ... +85 °C
≥ 200

Female	Coding	Cable type	HUBER + SUHNER Order No.
1380630000	D	Radox Railcat Databus CAT5, 7.3 mm	12568935
1380640000	D	Radox Railcat CAT5 4 x AWG22 XC 6.6 mm	12584038
1380650000	D	Radox Railcat CAT5 4 x 0.5 mm ² XCS 8.3 mm	12585489
1380670000	D	PROFINET, 2 x 2 x AWG22 6.5 mm ± 0.2 mm	

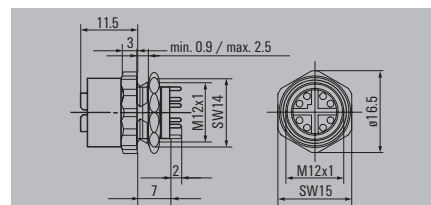
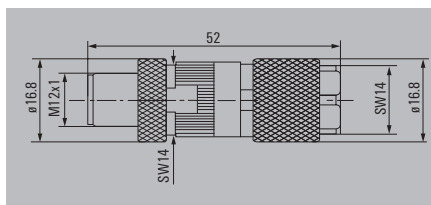
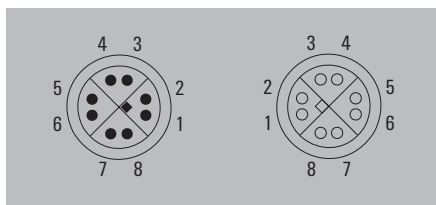
Dimensioned drawing



M12 connector / PCB socket
M12 X-type cat. 6_A

Plug

PCB socket



Technical data

Category
Protection degree
Connection 1
Housing main material
Contact holder materials
connection thread
Contact material / Contact surface
Ambient temperature (operational)
Connector standard
Current-carrying capacity at 50 °C
Rated voltage
Insulation resistance
Plugging cycles
Configuration
Shielding
Connection diameter, flexible, min. / max.
Wire cross-section, finely stranded, min. (AWG)
Connection diameter, solid, min. / max.
Wire cross-section, solid, min. (AWG)
Insulation cross-section, max.
Sheath diameter, min. / Sheath diameter, max.
Note

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP67
M12 / Insulation displacement technology
Zinc diecast
PA
M12
Brass / Gold-plated
Ambient temperature (operational)-40 / 85 °C
IEC 61076-2-109
0.5 A @ 40 °C
48 V
100 MΩ
≥ 100
360° all-round enclosure
0.48 / 0.76 mm
AWG 26 / AWG 22
0.4 / 0.64 mm
AWG 24 / AWG 22
1.6 mm
5 / 9.7 mm

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP67, when screwed in
M12 / Solder connection
CuZn
M12
CuZn / Gold over nickel
Ambient temperature (operational)-40 / 85 °C
IEC 61076-2-109
0.5 A @ 40 °C
48 V
100 MΩ
≥ 100
Reflow compatible
360° all-round enclosure

Ordering data

Plug
2-part version
pre-assembled
Note

Type	QTY	Order No.
IE-PS-M12X-P-FH	10	1324020000

Type	QTY	Order No.
IE-PCB2-M12X-S-180	10	1393080000
IE-PCB-M12X-S-180	10	1324010000

Accessories

Type	QTY	Order No.
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Type	QTY	Order No.
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Type	QTY	Order No.
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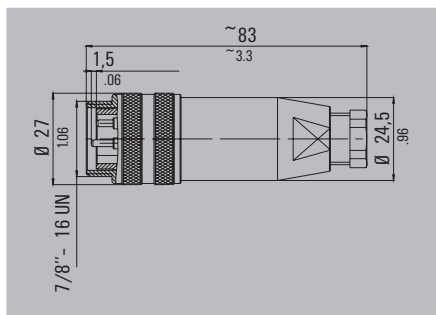
Note

Note

Note

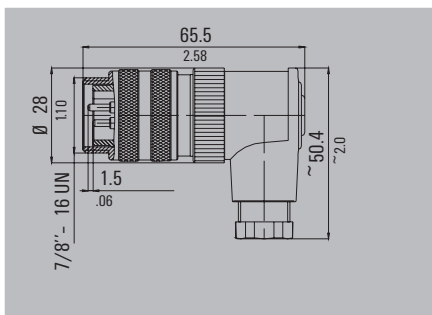
Plug-in connector FBCon 7/8"

Plug-in connector straight (plug)



Ordering data		4-pole
Type	Qty.	Order No.
SAIS-4/9-7/8"	1	1808840000

Plug-in connector 90° (plug)



Ordering data		4-pole
Type	Qty.	Order No.
SAISW-4/9-7/8"	1	1808830000

Technical data

No. of poles	4
Lock	Screw 7/8" UNF
Cable gland	PG 9
Connection	Screw
Connection cross-section	max. 1,5 mm ²
Connection cross-section	16 AWG
Enclosure protection class	IP 67
Mechanical service life	> 500 plugging cycles
Upper limit temperature	+ 85 °C
Lower limit temperature	- 40 °C

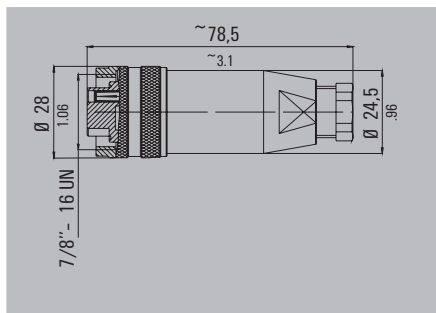
Electrical data

Rated voltage	250 V
Rated surge voltage	4000 V
Pollution severity	3
Surge category	II
Insulation material group	III
Test surge voltage	4800 V
Rated current	9 A (40°)
Volume resistivity	≤ 5 mΩ
Insulation resistance	> 10 ¹⁰ Ω

Materials

Contact pins	CuZn	(brass)
Contact surface	Au	(gold)
Socket body	PUR/PA	(UL 94 HB)
Enclosure cable plug	PBT	(UL 94 V-0)
Threaded ring	Anodised aluminium	

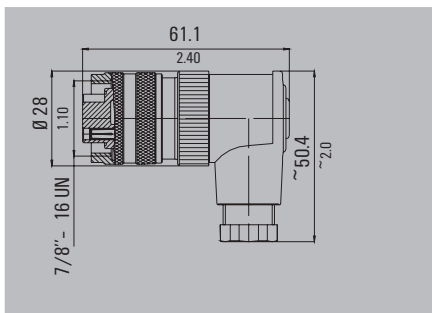
Plug-in connector straight (socket)



Ordering data		4-pole
Type	Qty.	Order No.
SAIB-4/9-7/8"	1	1812480000

Note: refer also to chapter 7/8"

Plug-in connector 90° (socket)



Ordering data		4-pole
Type	Qty.	Order No.
SAIBW-4/9-7/8"	1	1812470000

Accessories for fieldbus distributors

For technical data see Catalogue 5 - Enclosures and cable entries

Cable glands – plastic – IP68

VG M16-1/K68



Ordering data

Type	QTY	Order No.
VG M16-1/K68	50	1909860000
Long-thread version on request, halogen-free without sealing ring		

Cable glands – brass – IP68

VG M16-1/MS68



Ordering data

Type	QTY	Order No.
VG M16-1/MS68	50	1909910000
Long-thread version on request VDE for metric version		

Cable glands – brass – 1/EMV

VG M16- MS 1/EMV



Ordering data

Type	QTY	Order No.
VG M16- MS 1/EMV	50	1909500000
Further versions on request		

Sealing rings – 9005

GWDR M16-NP



Ordering data

Type	QTY	Order No.
GWDR M16-NP	50	1736230000
Further versions on request		

Blanking plugs – brass

VP M16-MS65



Ordering data

Type	QTY	Order No.
VP M16-MS65	100	1777730000
Other versions available on request. The blanking plugs must be tightened „hand-tight“ with the screwdriver.		

Blanking plugs – plastic – EEx e

VP M16-EXE SW



Ordering data

Type	QTY	Order No.
VP M16-EXE SW	100	1737070000
Refer to the enclosed installation instructions for the tightening torque.		

Compensating elements – plastic – DAE

DAE M12 PA short



Ordering data

Type	QTY	Order No.
DAE M12 PA short	10	1868560000
Light grey version - RAL 7035 - on request		

JACKPAC® (IP 67)

JACKPAC® (IP 67)	JACKPAC® - Overview	K.2
	JACKPAC® relay module	K.3
	JACKPAC® timer	K.4
	JACKPAC® signal inverter	K.5
	JACKPAC® test	K.6
	JACKPAC® - General Data and Accessories	K.7
	Empty housing SAI JACKPAC® for custom built-in components	K.8

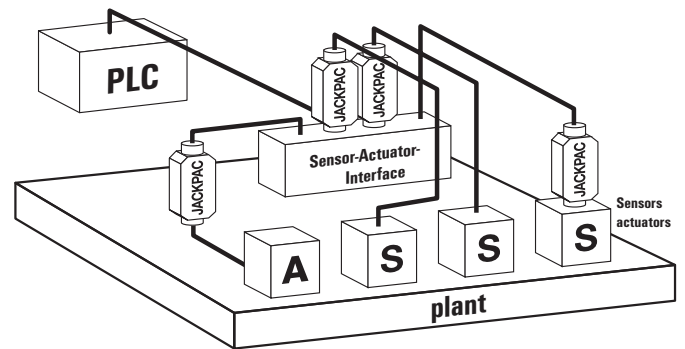
The Concept

The IP 20 Solution

Until now, all signal conditioning tasks were carried out by modules designed to IP 20. For their own protection, these needed to be installed in central switchgear cabinets. However, decentralised solutions that do not require large switchgear cabinets are increasingly being sought for use in modern-day industrial automation technology. It is true that shielded signals can be fed to the machinery via powerful fieldbus systems; but in each case, however, there remains an interconnecting cable between the subdistribution boards and the sensors/actuators are susceptible to interference from surrounding operations. As has always been the case, signals are still influenced by overvoltages and earth loops; interference pulses are superimposed on sensor signals and malfunctions can be initiated. The result is that signal conditioning modules sealed to IP 20 require terminal boxes, such as switchgear cabinets, or even cost-intensive special solutions (for example, sensor-actuator distributors with integrated signal-conditioning functions providing as many functions as possible, even when these are surplus to requirements).

The JACKPAC® Solution

By introducing **JACKPAC®**, the new M12 Signal Box with the high IP 67 ingress protection, Weidmüller can now provide a modular and versatile concept that makes it possible to condition signals in an industrial environment. Requiring no additional enclosures, these modules can be installed directly on the machine, in the production plant, conveyor system or within a process. The M12 connector, which is standardised all over the world, makes it possible to integrate the **JACKPAC®** at any point in the sensor-actuator cabling. The fixed pin assignment means it is easy to install and is protected against polarity reversal. This versatility really comes into its own when an installation needs to be altered or modernised, simply because no additional enclosures or cabling are required. By providing this high degree of protection and versatility, **JACKPAC®** renders possible innovative automation concepts based on decentralised applications – without large control cabinets or small distribution boards – for consistent, transparent, efficient and cost-efficient installations.



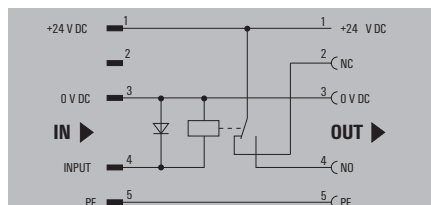
- Easy 'Plug and Play' installation
- Universal and versatile usage
- No additional enclosure required
- Saves time and costs
- Ideal for decentralised concepts and plant modernisation (retrofitting)

Switching amplifiers

- Switching amplifiers are simply built into the actuator system controls
- Switching outputs can be amplified from 24 V DC / 0.5 A to 24 V DC / 2 A
- Galvanic isolation is optional, for insulating between the input and output circuits, which prevents conducted interference on the switching output
- Switched voltage feed at output via T-distributor

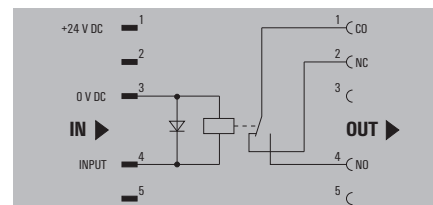
JPR 24 V DC 1C0 M12

without isolation



JPR 24 V DC ISO 1C0 M12

with electrical isolation



Technical data

Input	
Rated control voltage	24 V DC ±20 %
Rated current DC	8 mA
Power rating	200 mW
DC Response/dropout volt	16.8 V / 1.2 V
DC pickup/dropout current	5 mA / 1 mA
Free-wheel diode	Yes
Output	
Max. switching power	24 V / 2 A
Min. switching power	12 V / 10 mA
Contact material	AgSnO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Sparkover time / Drop-out time	ca. 5 ms
Insulation coordination (EN 50 178)	
Rated voltage	300
Surge voltage category	III
Pollution severity	2
General data	
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-25 °C...+70 °C
Conductor connection system	M12 plug / socket, A-coded
Approvals	cULus; GOSTME25

Rated control voltage	24 V DC ±20 %
Rated current DC	8 mA
Power rating	200 mW
DC Response/dropout volt	16.8 V / 1.2 V
DC pickup/dropout current	5 mA / 1 mA
Free-wheel diode	Yes
Max. switching power	24 V / 2 A
Min. switching power	12 V / 10 mA
Contact material	AgSnO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Sparkover time / Drop-out time	ca. 5 ms
Rated voltage	300
Surge voltage category	III
Pollution severity	2
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-25 °C...+70 °C
Conductor connection system	M12 plug / socket, A-coded
Approvals	cULus; GOSTME25

Rated control voltage	24 V DC ±20 %
Rated current DC	8 mA
Power rating	200 mW
DC Response/dropout volt	16.8 V / 1.2 V
DC pickup/dropout current	5 mA / 1 mA
Free-wheel diode	Yes
Max. switching power	24 V / 2 A
Min. switching power	12 V / 10 mA
Contact material	AgSnO
Mechanical service life	10 x 10 ⁶ switching cycles
Max. switching frequency at rated load	0.1 Hz
Sparkover time / Drop-out time	ca. 5 ms
Rated voltage	300
Surge voltage category	III
Pollution severity	2
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-25 °C...+70 °C
Conductor connection system	M12 plug / socket, A-coded
Approvals	cULus; GOSTME25

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Ordering data

Type	Qty.	Order No.
JPR 24VDC 1C0 M12	1	8771420000

Type	Qty.	Order No.
JPR 24VDC 1C0 M12	1	8771420000

Type	Qty.	Order No.
JPR 24VDC ISO 1C0 M12	1	8771430000

Note

Note

Note

Accessories

Note

Retaining clip
JP CLIP M: 8778490000

Retaining clip
JP CLIP M: 8778490000

JACKPAC® timer

Timer relay

Signal extenders can be easily connected to the cable between the sensor and the input modules. They extend the pulse length from a minimum of 1 ms to 50 ms or 100 ms. This enables short sensor signals to be reliably recognised and evaluated by the controller.

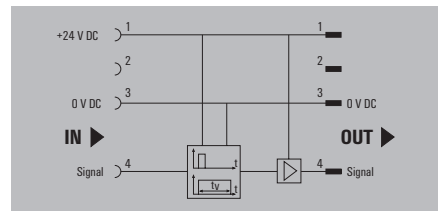
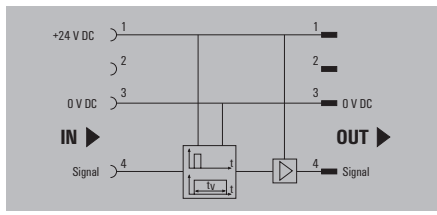
JPTA 50 MS 24VDC PNP M12

Pulse stretching, 50 ms



JPTA 100 MS 24VDC PNP M12

Pulse stretching, 100 ms



Technical data

Input	
Rated control voltage	18...24...30 V DC
Rated current DC	3.5...7.0...10.0 mA
Switch-off delay	50 ms
Output	
Max. switching voltage, DC	30 V
Max. switching current	400 mA
Insulation coordination (EN 50 178)	
Rated voltage	32 V
Impulse withstand voltage	330 V
Surge voltage category	1
Pollution severity	2
General data	
Ambient temperature (operational)	0 °C...+60 °C
Storage temperature	-20 °C...+85 °C
Conductor connection system	M12 plug / socket, A-coded
Approvals	CE; cULus; GOSTME25

Input	
Rated control voltage	18...24...30 V DC
Rated current DC	3.5...7.0...10.0 mA
Switch-off delay	50 ms
Output	
Max. switching voltage, DC	30 V
Max. switching current	400 mA
Insulation coordination (EN 50 178)	
Rated voltage	32 V
Impulse withstand voltage	330 V
Surge voltage category	1
Pollution severity	2
General data	
Ambient temperature (operational)	0 °C...+60 °C
Storage temperature	-20 °C...+85 °C
Conductor connection system	M12 plug / socket, A-coded
Approvals	CE; cULus; GOSTME25

Input	
Rated control voltage	18...24...30 V DC
Rated current DC	3.5...7.0...10.0 mA
Switch-off delay	100 ms
Output	
Max. switching voltage, DC	30 V
Max. switching current	400 mA
Insulation coordination (EN 50 178)	
Rated voltage	32 V
Impulse withstand voltage	330 V
Surge voltage category	1
Pollution severity	2
General data	
Ambient temperature (operational)	0 °C...+60 °C
Storage temperature	-20 °C...+85 °C
Conductor connection system	M12 plug / socket, A-coded
Approvals	CE; cULus; GOSTME25

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Length x width x height	mm
Note	

Ordering data

Type	Qty.	Order No.
JPTA 50MS 24VDC PNP M12	1	8771440000

Type	Qty.	Order No.
JPTA 50MS 24VDC PNP M12	1	8771440000

Type	Qty.	Order No.
JPTA100MS 24VDC PNP M12	1	8836630000

Note

Note

Note

Accessories

Note

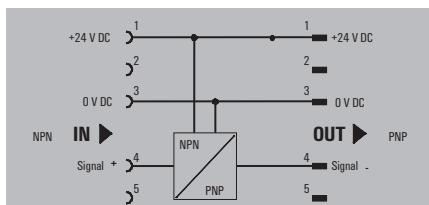
Retaining clip JP CLIP M: 8778490000

Retaining clip JP CLIP M: 8778490000

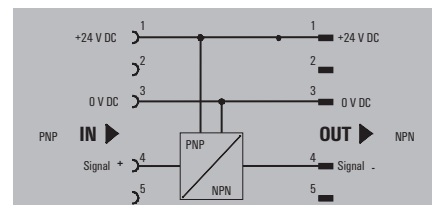
Signal inverter

Signal inverters convert PNP sensor signals to NPN signals and NPN signals back to PNP. This means that existing circuits do not require complex alteration and the existing inputs on the I/O cards can be put to best use. This is particularly well suited for the Asian and North American markets.

JPP NPN PNP 24 V DC



JPP PNP NPN 24 V DC



Technical data

Input
Sensor
Rated control voltage
Input current for sensor
Type of contact
Output
Solid-state type
Rated switching voltage
Rated switching current
Voltage drop at max. load
Insulation coordination (EN 50 178)
Rated voltage
Impulse withstand voltage
Surge voltage category
Pollution severity
General data
Ambient temperature (operational)
Storage temperature
Conductor connection system
Approvals

2-/ 3-Conductor Sensor NPN-type
18...24...30 V DC
< 200 mA
NO contact
Solid state relay
18...30 V DC
400 mA
≤ 1 V
32 V
330 V
I
2
0 °C...+60 °C
-20 °C...+85 °C
M12 plug / socket, A-coded
cULus; GOSTME25

2-/ 3-Conductor Sensor PNP-Type
18...24...30 V DC
< 200 mA
NO contact
Solid state relay
18...30 V DC
400 mA
32 V
330 V
I
2
0 °C...+60 °C
-20 °C...+85 °C
M12 plug / socket, A-coded
CE; cULus; GOSTME25

Dimensions
Clamping range (nominal / min. / max.)
Length x width x height
Note

83 / 36 / 14.4

83 / 36 / 14.4

Ordering data

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Type	Qty.	Order No.
JPP NPN PNP 24VDC	1	8852350000

Type	Qty.	Order No.
JPP PNP NPN 24VDC	1	8857030000

Note

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Accessories

Note

Retaining clip JP CLIP M: 8778490000

Retaining clip JP CLIP M: 8778490000

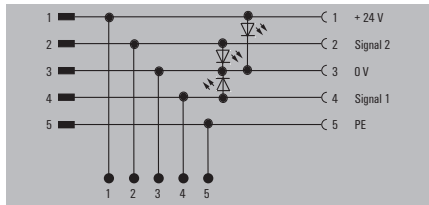
JACKPAC® test

Test adapter

The new JACKPAC® test adapter can be easily integrated at any point on an M12 network and enables quick and easy connection of a testing device via the 5 PUSH IN connections. Status indicators show the status of the 2 signal channels as well as the 24 V DC auxiliary voltage.

JP TEST

with status indication



Technical data

Input

Rated control voltage
Rated current DC
Status indicator

Output

Continuous current
Power

General data

Ambient temperature (operational)
Storage temperature
Conductor connection system
Approvals

18...24...30 V DC

2.2 mA (LED)

Green LED

2 A

2.2 mA at 24 V

0 °C...+55 °C

-25 °C...+70 °C

M12 plug / socket, A-coded

CE, GOSTME25

Dimensions

Clamping range (nominal / min. / max.) mm²
Length x width x height mm

Note

83 / 36 / 14.4

Ordering data

Type	Qty.	Order No.
JP TEST	1	8794120000

Note

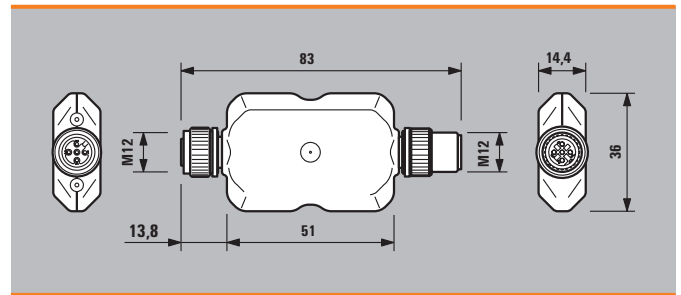
Accessories

Note

Retaining clip
JP CLIP M: 8778490000

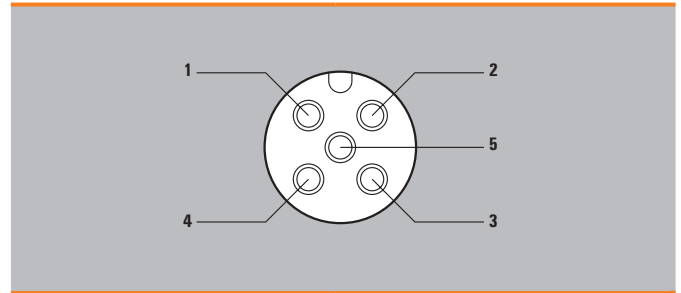
General data

Ingress protection class	IP 67
Housing material	PBT, RAL 7032 (grey)
Flammability class	V0 to UL94
Screw socket	M12, CuZn, nickel plated, A-coded
Rated torque	0.8 ... 1 Nm



Contact assignment (socket)

Pole	Assignment
1	+24 V DC
2	Input / output 2
3	0 V DC
4	Input / output 1
5	PE / Earth



Accessories



	Type	Qty.	Order No.
Stainless steel	JP CLIP M	1	8778490000



	Type	Qty.	Order No.
5-pole	SAI-Y-5S PARA M12/M12	1	1783430000



	Type	Qty.	Order No.
With torque	SCREWTY M12 DM	1	1900001000



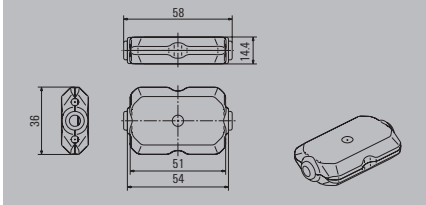
	Type	Qty.	Order No.
4-pole, length 0.3 m	SAIL-M12G-M12G-4-0.3U	1	1906300030
4-pole, length 0.6 m	SAIL-M12G-M12G-4-0.6U	1	1906300050
4-pole, length 1.5 m	SAIL-M12G-M12G-4-1.5U	1	1906300150
5-pole, length 0.3 m	SAIL-M12G-M12G-5-0.3U	1	9457340030
5-pole, length 0.6 m	SAIL-M12G-M12G-5-0.6U	1	9457340060
5-pole, length 1.5 m	SAIL-M12G-M12G-5-1.5U	1	9457340150

Additional accessories can be found in the Sensor Actuator Interface catalogue.

Empty housing SAI JACKPAC® for custom built-in components

Empty housing SAI JACKPAC® for custom built-in components

SAI JP



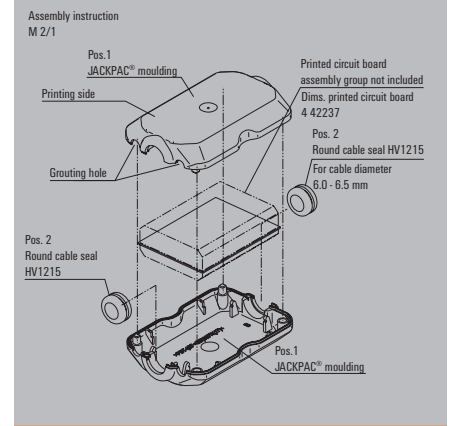
Technical data

General data

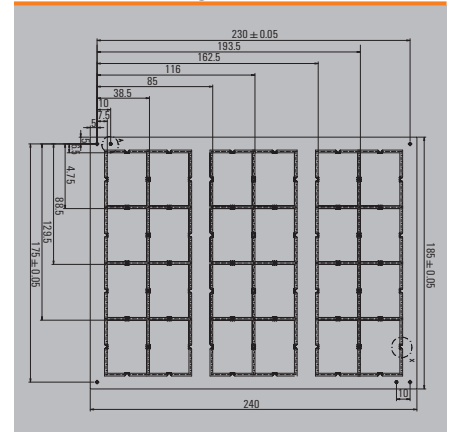
Temperature range
 Connection system
 Contact base material
 Surface finish

-25 °C ... +70 °C
 M12 plug/socket, A-coded
 AgSnO
 Au

Dimensioned drawing SAI JP



Dimensioned drawing, PCBs



Dimensions

Length x width x height mm

83 x 36 x 14.4

Note

Please use high-viscosity or fast-cure compound.

Ordering data

Housing with M12 connectors

Contents	1 piece
	1 piece
	100 pieces
	100 pieces

Note

Type	No. of poles	Qty.	Order No.
SAI JP 4P LG	4	1	1915220000
SAI JP 5P LG	5	1	1918520000
SAI JP 4P LG 100	4	1	8794090000
SAI JP 5P LG 100	5	1	8794080000

Housing without M12 connectors SAI JP FC SET 1933680000
 1 Qty. = 100 pieces

Accessories

SAI empty housing

SAI empty housing	The Art of Making the Right Choice	L.2
	The advantages at a glance	L.4
	Technical description of individual components	L.5
	Ordering data	L.6
	Technical Information	L.11
	Assembly steps for the SAI Universal Housing Set	L.12
	SAI AU Housing Types	L.13
	Drawings	L.14

The Art of Making the Right Choice

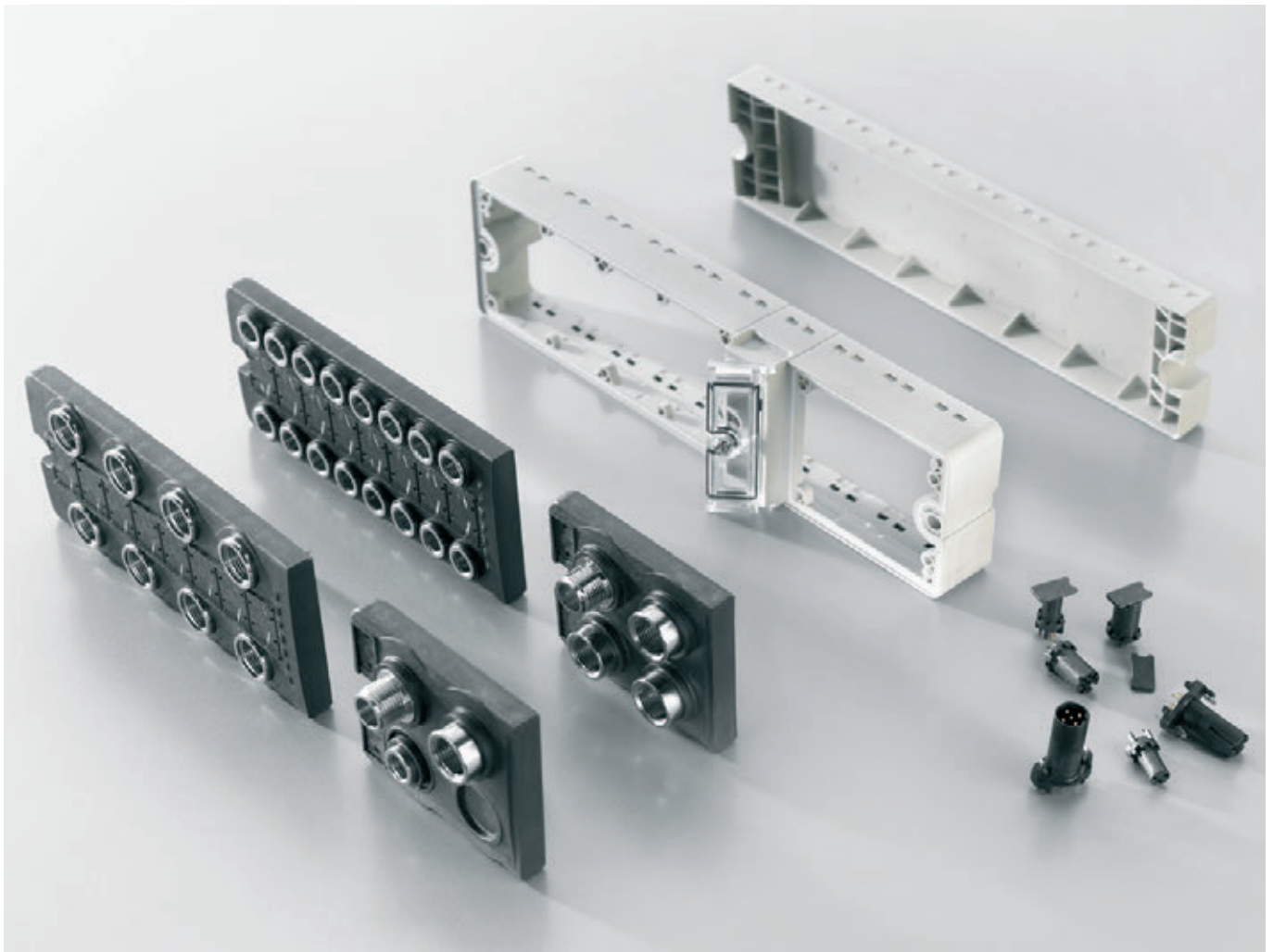
There are numerous types of electronics housings available for the mounting rail with IP 20 protection. This opens up a whole range of options for users. The situation is completely different, however, when working with IP 67. Here the persistent question is how to keep liquids and dusts from penetrating the housing. Many products rely on encapsulation for this protection. When used daily, this is not problematic. But for small batches and for productions where encapsulation is not carried out daily, this technique can present a real obstacle.

Therefore Weidmüller has developed a housing range with absolutely no encapsulation. This also offers the option of using the circuit boards in reflow soldering since the required M12s are available as tray-packaged THT parts.

In the event of problems with the electronic circuitry after assembly, the housing can be re-opened to search for possible causes on the PCB.

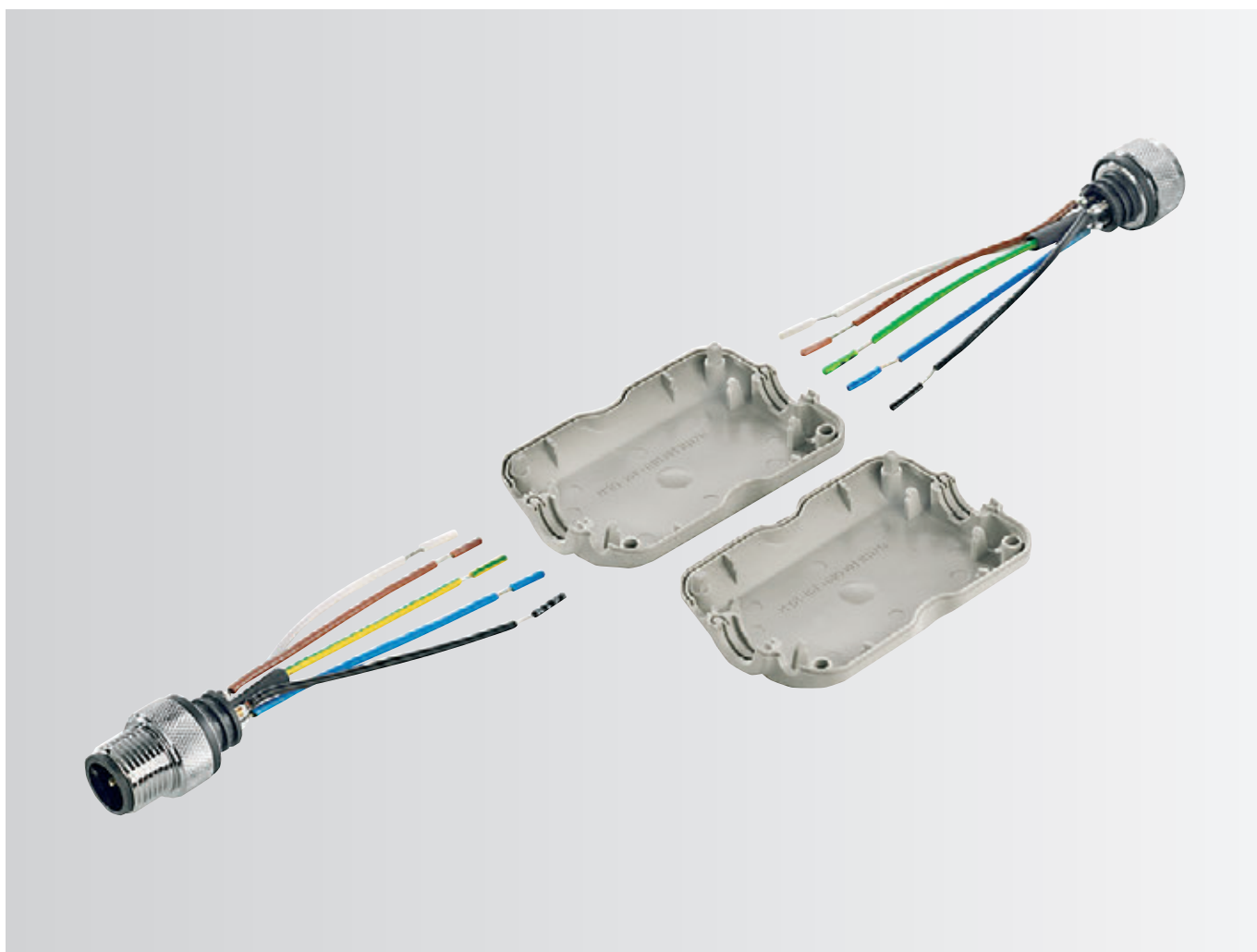
The modules are only 54 mm wide and are normally supplied with 8 x M12 connectors along one side. On the bus and supply sides 4 connectors may be fitted. Both areas are separated with a transparent cover which allows settings to be made after they have been assembled.

It is worth highlighting the M12 Reflow-capable PCB plug-in connectors, which can be used in a sustained operating temperature of 105 °C. These are also available individually for use in an individually designed housing application.



Another variant consists of a small housing with two M12 connectors. Here small switches can be integrated easily to adapt to existing levels and the M12 connectors are already included. The housing is packed as a set with 100 pieces. The price refers to a set with 100 equal parts.

If these housing solutions do not offer a viable solution for the required application, Weidmüller may offer a customised housing. With our years of experience, we can even offer an affordable solution for low volume orders. How is this achieved? Please feel free to ask!



The advantages at a glance

Non-encapsulated housing

- Easy to assemble
- No encapsulation equipment needed
- Recyclable
- Disassembly for testing is possible

M8/M12 connector

- Reflow-compatible I/O plug-in connector
- High long-term-use temperature
- I/O plug in tray
- M12 available with different coding

Material

- Housing material laser-compatible PBT. This material is very resistant and sturdy
- Threaded rings: nickel-plated brass – for secure attachment
- Machined, gold-plated contact – for high current capacity

Service

- Housings can also be ordered as a set
- They can be laser-inscribed before delivery

Components

- M12 and M8 connectors can also be ordered individually for use in your custom-designed housings

Housings

- Light-guide rods are integrated into cover
- Mounting holes on top and side
- Address chamber can be illuminated
- Housings available in black or grey



Technical description of individual components

It is possible to assemble three different housing types together. These variants have different widths and lengths. The first housing is 54 mm wide and 210.5 mm long. The second and third housing is always 30 mm wide and 155.5 mm long or 180.5 mm long.

The following individual components are always required:

54 mm



Designation

- One frame
- One base
- One I/O cover
- One bus/supply cover
- One Functional Earth plate
- One address cover
- One address cover screw
- Ten circuit board screws

30 mm short shape



Designation

- One frame
- One base
- One cover
- One Functional Earth plate
- Six circuit board screws

30 mm long shape



Designation

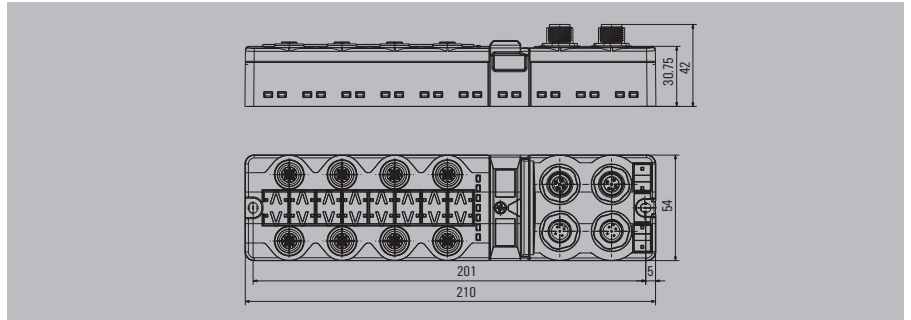
- One frame
- One base
- One cover
- One Functional Earth plate
- Six circuit board screws

Added to this is the corresponding number of plug-in connector inserts. The quantity should be coordinated with the respective covers - with the I/O covers each requires different M12 plug-in connectors.

Note: Presses for pushing in the bottom are available on request.

SAI empty housing

Ordering data



54 mm

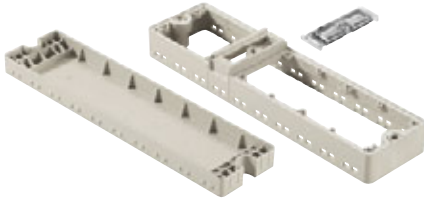
I/O cover

With threaded bushing, without connector



Designation	Type	Qty.	Order No.
M12	SAI GHDE EA 8M12	25	1246490000
M12 shielded	SAI GHDE EA 8M12 SIBL	25	1246510000
M8	SAI GHDE EA 16M8 0.SIBL	25	1246520000

Frame, address flap, screw for address flap, floor, shield panel



Designation	Type	Qty.	Order No.
M12 shielded	SAI RA 54 KU	25	1246530000
Address cover	SAI AD 54	50	1966170000
Screw for address cover	SAI BFSC M3x10	1	4310920000
Base	SAI BP 54 KU	50	1966190000
Functional earth plate	SAI SIBL GH	250	1966200000

LP screws



Designation	Type	Qty.	Order No.
Screw for attachment to circuit board	PTSC 25X12 WN5452	100	4311430000

bus/supply cover, short

With threaded bushing, without connector



Designation	Type	Qty.	Order No.
4 M12, 1 male, 3 female	SAI GHDE 4M12 1S3B	25	1246560000

You can find all variants on G.8

O-rings for female sockets



Designation	Type	Qty.	Order No.
M12	SAI O-RI 7.5X1.5 VI	5000	4311000000
M8	SAI O-RI 5.0X0.8 NBR	50000	4312340000

M12 plug I/O

Packaged in tray / reflow compatible



Designation	Type	Qty.	Order No.
Female A-Keyway 5 pole	B KOTR M12 5P A BU SAI	360	2326170000
Female D-Keyway 4 pole	B KOTR M12 4P D BU SAI	360	2341480000

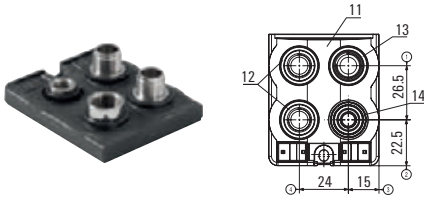
Ordering data

	Designation	Type	Qty.	Order No.
M8 plug I/O	Female M8 3 pole	B KOTR M8 3P BU SAI	360	2332380000
				
M12 plug, bus/supply side, short	Female A-Keyway 5 pole shielded	B KOTR B M12 5POL A BU	220	2350600000
	Male A-Keyway 5 pole shielded	B KOTR B M12 5POL A SF	220	2350610000
	Female B-Keyway 5 pole shielded	B KOTR B M12 5POL B BU	220	2350620000
	Male B-Keyway 5 pole shielded	B KOTR B M12 5POL B SF	220	2350630000
	Female D-Keyway 4 pole shielded	B KOTR B M12 4POL D BU	220	2350590000
M8 plug, bus/supply side, short	Female 4 poles shielded	B KOTR BUS M8 4POL BU	220	2350640000
				
Threaded bushings	Male M12	GWHUE BUS M12 SF SAI	1	4322760000
	Female M12	GWHUE BUS M12 BU SAI	1	4322750000
SET	M12 standard	SAI-AU ET SET M12 A C0D	1	1235340000
				

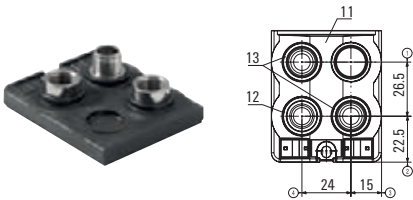
SAI empty housing

Ordering data

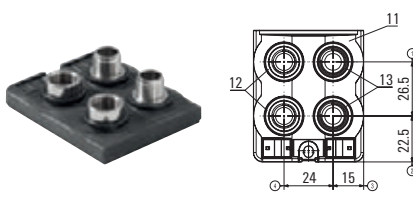
I/O cover (3M12 | 2 pin, 1 socket // 1M8 | 1 socket)



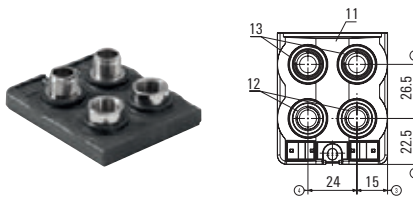
I/O cover (3M12 | 1 pin, 2 socket)



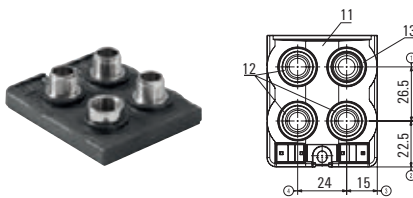
LP I/O cover (4M12 | 2 pin, 2 socket)



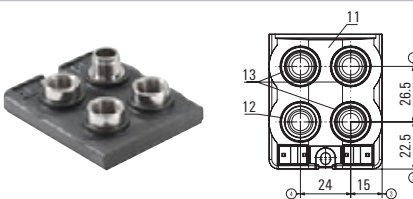
I/O cover (4M12 | 2 pin, 2 socket, turned)



I/O cover (4M12 | 3 pin, 1 socket)



I/O cover (4M12 | 1 pin, 3 socket)



Type	Qty.	Order No.
SAI GHDE 3M12 1M8 SAI	25	1246540000

Designation	Qty.	Order No.
SAI GHDE 3M12 1S2B	25	1246550000

Designation	Qty.	Order No.
SAI GHDE 4M12 2S2B	25	1246570000

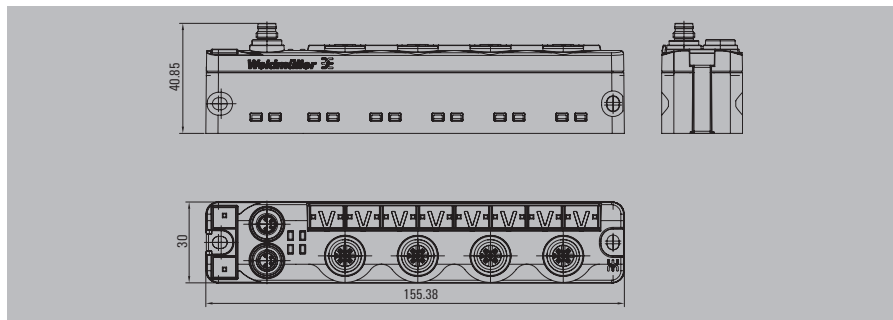
Designation	Qty.	Order No.
SAI GHDE 4M12 2X1S1B	25	1246580000

Designation	Qty.	Order No.
SAI GHDE 4M12 3S1B	25	1246590000

Designation	Qty.	Order No.
SAI GHDE 4M12 1S3B	25	1246560000

Hinweis: Presse zum Eindrücken des Bodens auf Anfrage erhältlich.

Ordering data



30 mm short version

Cover

With threaded bushing, without connector



Designation	Type	Qty.	Order No.
M12	SAI GHDE 30 S KU M12	20	1246810000
M12 shielded	SAI GHDE 30 S KU SI	20	1246820000
M8	SAI GHDE 30 S KU M8	20	1246830000

Frame, floor



Designation	Type	Qty.	Order No.
Frame	SAI RA 30 SB KU	20	1246660000
Base	SAI BP 30 SB KU	20	1246840000

LP screws



Designation	Type	Qty.	Order No.
Screw for attachment to circuit board	PTSC 25X12 WN5452	100	4311430000

O-rings for female socket



Designation	Type	Qty.	Order No.
M12	SAI O-RI 7.5X1.5 VI	5000	4311000000
M8	SAI O-RI 5.0X0.8 NBR	50000	4312340000

M12 plug I/O



Designation	Type	Qty.	Order No.
Female A-Keyway 5 pole	B KOTR M12 5P A BU SAI	360	2326170000
Female D-Keyway 4 pole	B KOTR M12 4P D BU SAI	360	2341480000

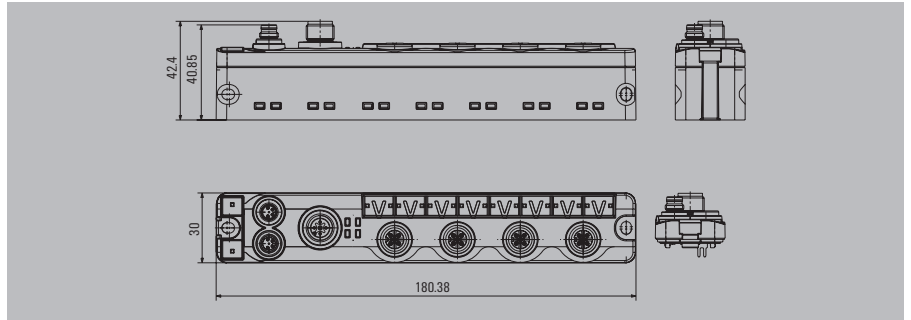
bus/supply plug



Designation	Type	Qty.	Order No.
Female M8 4 pole	B KOTR BUS M8 4POL BU	220	2350640000
Male M8 4 pole	B KOTR BUS M8 4POL SF	220	2350650000

SAI empty housing

Ordering data



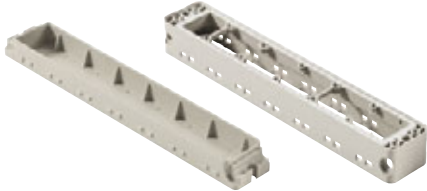
30 mm long version

Cover

With threaded bushing, without connector



Frame, floor



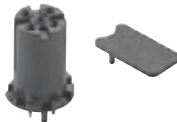
LP screws



O-rings for female socket



M12 plug I/O



bus/supply plug



Designation	Type	Qty.	Order No.
M12	SAI GHDE 30 SB LA M12	20	1246670000
M12 shielded	SAI GHDE 30 SB LA SIBL	20	1246680000
M8	SAI GHDE 30 SB LA M8	20	1246690000

Designation	Type	Qty.	Order No.
Frame	SAI RA 30 SB LA	20	1246720000
Base	SAI BP 30 SB LA	20	1246710000

Designation	Type	Qty.	Order No.
Screw for attachment to circuit board	PTSC 25X12 WN5452	100	4311430000

Designation	Type	Qty.	Order No.
M12	SAI O-RI 7.5X1.5 VI	5000	4311000000
M8	SAI O-RI 5.0X0.8 NBR	50000	4312340000

Designation	Type	Qty.	Order No.
Female A-Keyway 5 pole	B KOTR M12 5P A BU SAI	360	2326170000
Female D-Keyway 4 pole	B KOTR M12 4P D BU SAI	360	2341480000

Designation	Type	Qty.	Order No.
Female M8 4 pole	B KOTR BUS M8 4POL BU	220	2350640000
Male M8 4 pole	B KOTR BUS M8 4POL SF	220	2350650000
Male M12 A-Keyway 5 pole	B KOTR B M12 5POL A SF	220	2350610000

Technical Information

O-rings

These are required for the M12 and M8 sockets when establishing a seal in compliance with IP 67. O-rings are required for the female sockets but not for the male plugs.

Press

You will need a tool that can press the base in and close the housing without damaging it. Such a tool can be ordered through Weidmüller.

Cover

The covers are fitted with either M12 or M8 threaded nuts. The corresponding inserts must be ordered separately.

Connectors in tray

The I/O inserts are packaged and delivered in a tray. This makes them compatible with automatic placement processes.

All connector inserts offered in this product line can be reflow soldered.

The bus/supply inserts connectors are packaged and delivered in a box. They can also be reflow soldered.

Circuit board screws

The circuit board screws are self-cutting screws. Be sure, during assembly, to tighten the screws in the specified order. Ten screws are needed for each circuit board in the 54 mm housings. Six screws are needed per board in the 30 mm housings.

Sample housings

The Set article number can be used to order a 54 mm housing along with sufficient components for building a complete module. This is suitable for samples or small batches. A set consists of the following components: One I/O cover, bus/supply cover, address cover, screw for address cover, Functional Earth plate, frame, base, eight M12 A-Keyway female sockets, 10 M12 O-rings, two M12 A-Keyway female sockets, two M12 male A-Keyway as bus/supply plug.

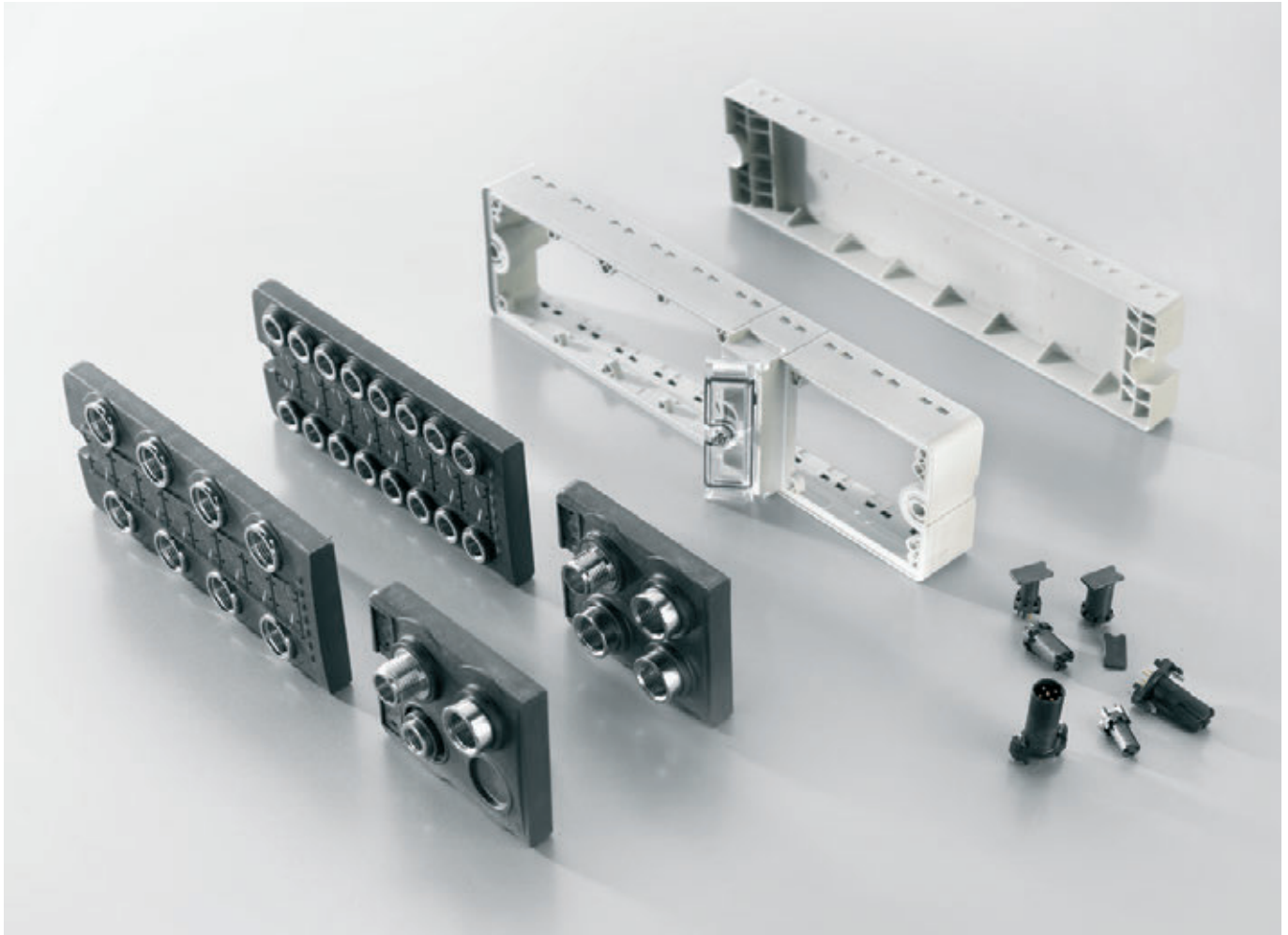
Colour

Housing parts can be ordered in either grey or black. The article numbers here specify the grey frame, grey base and black cover.

Print

Customised printing is also possible on request. The inscription is made with a laser.

Assembly steps for the SAI Universal Housing Set



L

① Assembling the frames and covers

Assembly steps

Position the frame with I/O cover and the bus/supply cover in the holder. Snap the printed circuit board in the frame and screw it together with housing (**be sure to maintain the proper torque and tightening sequence**).

Screw torque: 0.6 Nm

Tightening sequence

5	3	1	7	9
	EA		Bus	
6	4	2	8	10

② Snap in the housing base

Assembly steps

Use a press to snap the housing base into the housing frame.

③ Final assembly

Assembly steps

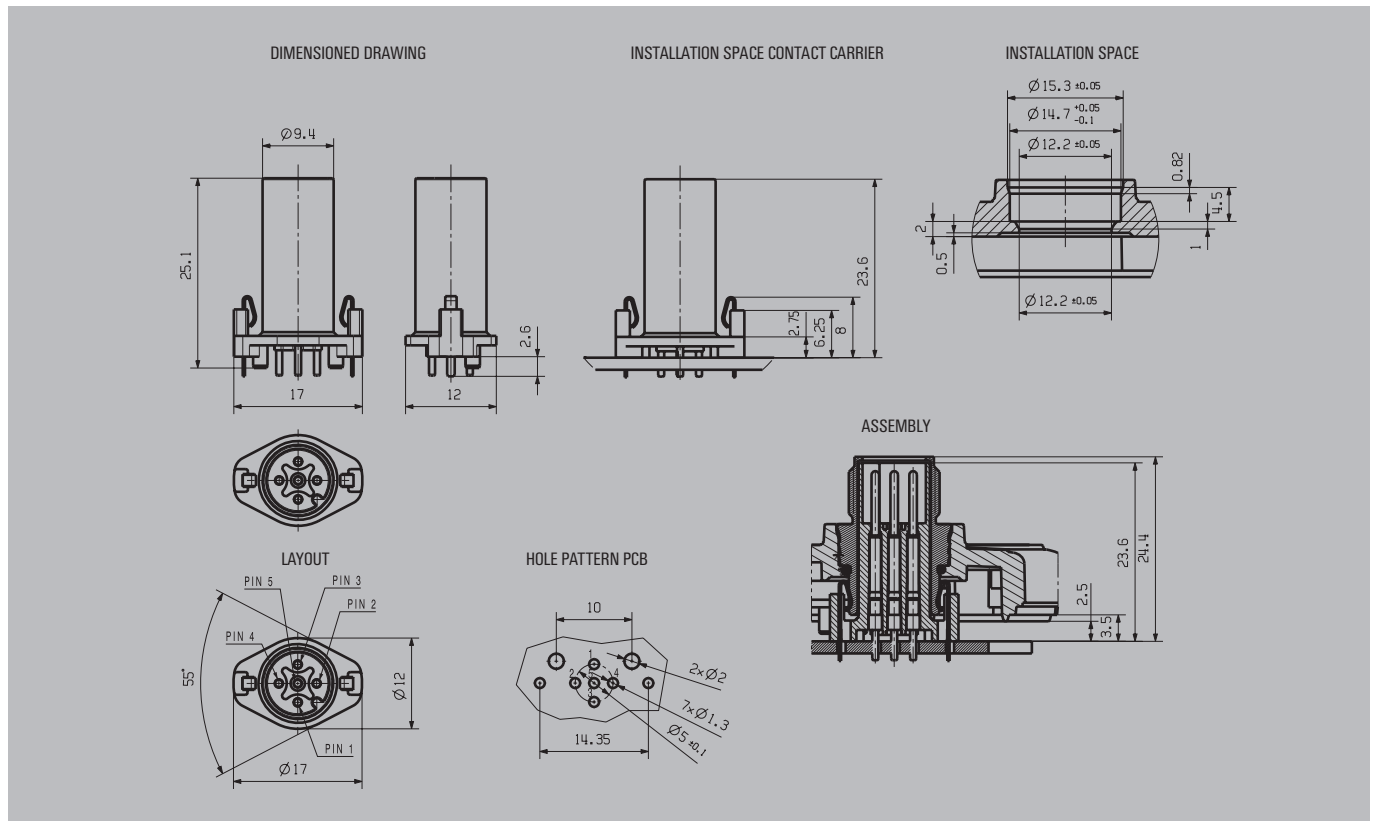
1. Snap on the transparent cover
2. Screw on with 0.5 Nm torque
3. Attach the O-rings with a press
4. Snap on the Functional Earth plate
5. Add accessories (Multicard, protective caps, package inserts)

SAI AU Housing Types

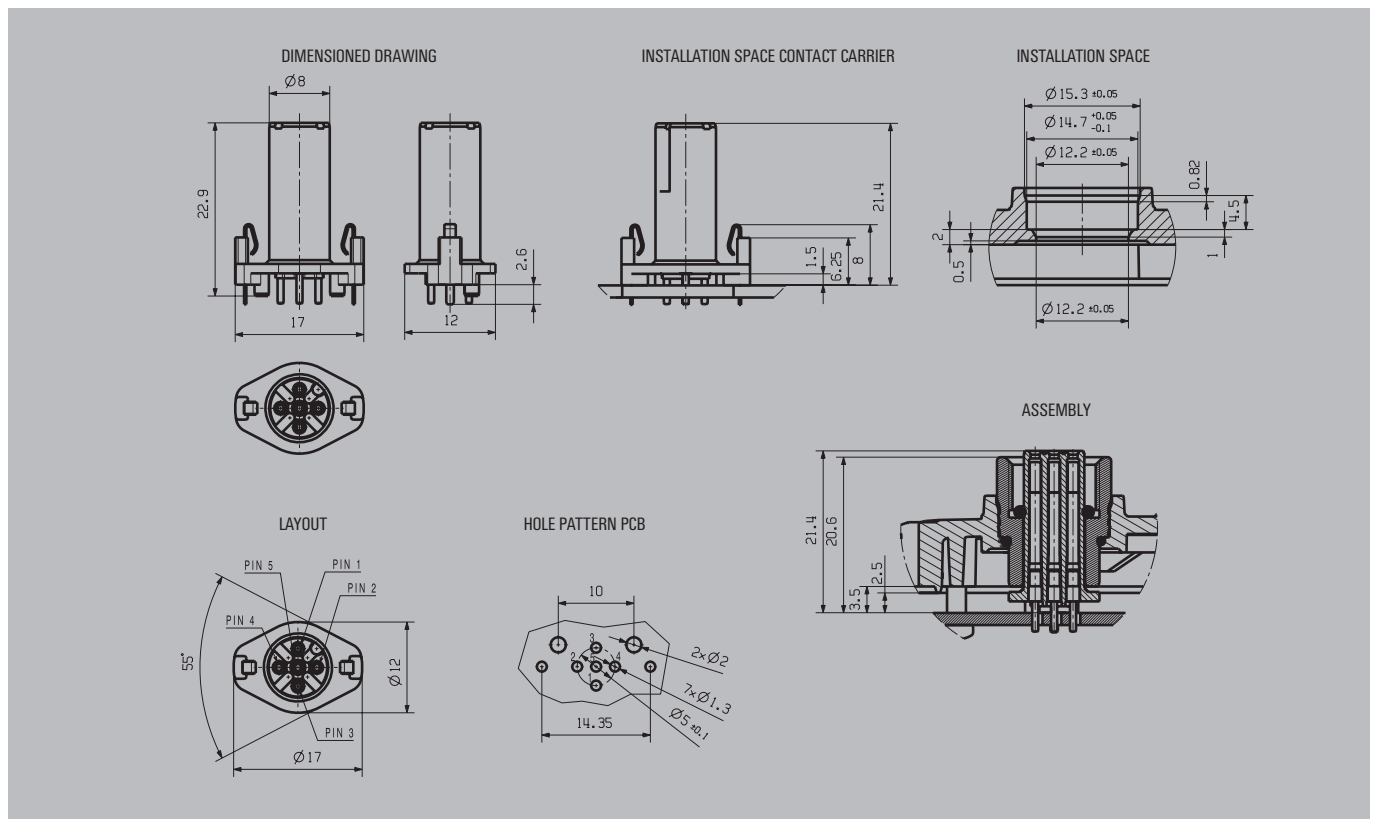
SAI empty housing

Type	Designation 54 mm	Order No.	Type	Qty.
I/O cover	M12	1246490000	SAI GHDE EA 8M12	25
	M12 shielded	1246510000	SAI GHDE EA 8M12 SIBL	25
	M8	1246520000	SAI GHDE EA 16M8 O.SIBL	25
Frame set	Frame, address cover, screw for address cover, base			
	Frame	1246530000	SAI RA 54 KU	25
	Address cover	1966170000	SAI AD 54	50
	Corresponding screw	4310920000	SAI BFSC M3x10	1
	Base	1966190000	SAI BP 54 KU	50
	Functional Earth Plate	1966200000	SAI SIBL GH	250
PCB screws		1966180000	SAI BFSC M3x10	1000
Bus/supply cover	3 M12, 1 M8	1246540000	SAI GHDE 3M12 1M8 SAI	25
	3 M12 1 male, 2 female	1246550000	SAI GHDE 3M12 1S2B	25
	4 M12, 1 male 3 female	1246560000	SAI GHDE 4M12 1S3B	25
	4 M12, 2 male, 2 female	1246570000	SAI GHDE 4M12 2S2B	25
	4 M12 2X 1 male, 1 female	1246580000	SAI GHDE 4M12 2X1S1B	25
	4 M12 3 male, 1 female	1246590000	SAI GHDE 4M12 3S1B	25
	3 M12 1 PG9	1246610000	SAI GHDE 3M12 1PG9	25
O rings	M12	4311000000	SAI O-RI 7.5X1.5 VI	5000
	M8	4312340000	SAI O-RI 5.0X0.8 NBR	50000
M12 connector I/O	Female A-Keyway 5 pole	2326170000	B KOTR M12 5P A BU SAI	360
	Female D-Keyway 4 pole	2341480000	B KOTR M12 4P D BU SAI	360
M8 connector I/O		2332380000	B KOTR M8 3P BU SAI	360
		2350600000	B KOTR B M12 5POL A BU	220
M12 connector, bus/supply cover side	Female A-Keyway 5 pole	2350610000	B KOTR B M12 5POL A SF	220
	Male A-Keyway 5 pole	2350620000	B KOTR B M12 5POL B BU	220
	Female B-Keyway 5 pole shielded	2350630000	B KOTR B M12 5POL B SF	220
	Male B-Keyway 5 pole shielded	2350590000	B KOTR B M12 4POL D BU	220
	Female D-Keyway 4 pole shielded	2350640000	B KOTR BUS M8 4POL BU	220
		2350650000	B KOTR BUS M8 4POL SF	220
M8 connector	Female 4 pole shielded	1235340000	SAI-AU ET SET M12 A COD	
SET	M12 standard			
Type	30 mm short	Order No.	Type	Qty.
Cover	M12	1246810000	SAI GHDE 30 S KU M12	20
	M12 shield	1246820000	SAI GHDE 30 S KU SI	20
	M8	1246830000	SAI GHDE 30 S KU M8	20
Frame set	Base	1246840000	SAI BP 30 SB KU	20
	Frame	1246660000	SAI RA 30 SB KU	20
PCB screws		1966180000	SAI BFSC M3x10	1000
O rings	M12	4311000000	SAI O-RI 7.5X1.5 VI	5000
	M8	4312340000	SAI O-RI 5.0X0.8 NBR	50000
M12 connector I/O	Female A-Keyway 5 pole	2326170000	B KOTR M12 5P A BU SAI	360
	Female D-Keyway 4 pole	2341480000	B KOTR M12 4P D BU SAI	360
	Female M8 4 pole	2350640000	B KOTR BUS M8 4POL BU	220
	Male M8 4 pole	2350650000	B KOTR BUS M8 4POL SF	220
Type	30 mm long	Order No.	Type	Qty.
Cover	M12	1246670000	SAI GHDE 30 SB LA M12	20
	M12 shielded	1246680000	SAI GHDE 30 SB LA SIBL	20
	M8	1246690000	SAI GHDE 30 SB LA M8	20
Frame set	Base	1246710000	SAI BP 30 SB LA	20
	Frame	1246720000	SAI RA 30 SB LA	20
PCB screws		1966180000	SAI BFSC M3x10	1000
O rings	M12	4311000000	SAI O-RI 7.5X1.5 VI	5000
	M8	4312340000	SAI O-RI 5.0X0.8 NBR	50000
M12 connector I/O	Female A-Keyway 4 pole			
	Female A-Keyway 5 pole	2326170000	B KOTR M12 5P A BU SAI	360
	Female D-Keyway 4 pole	2341480000	B KOTR M12 4P D BU SAI	360
	Female M8 4 pole	2350640000	B KOTR BUS M8 4POL BU	220
	Male M8 4 pole	2350650000	B KOTR BUS M8 4POL SF	220
	Male M12 A-Keyway 5 pole	2350610000	B KOTR B M12 5POL A SF	220

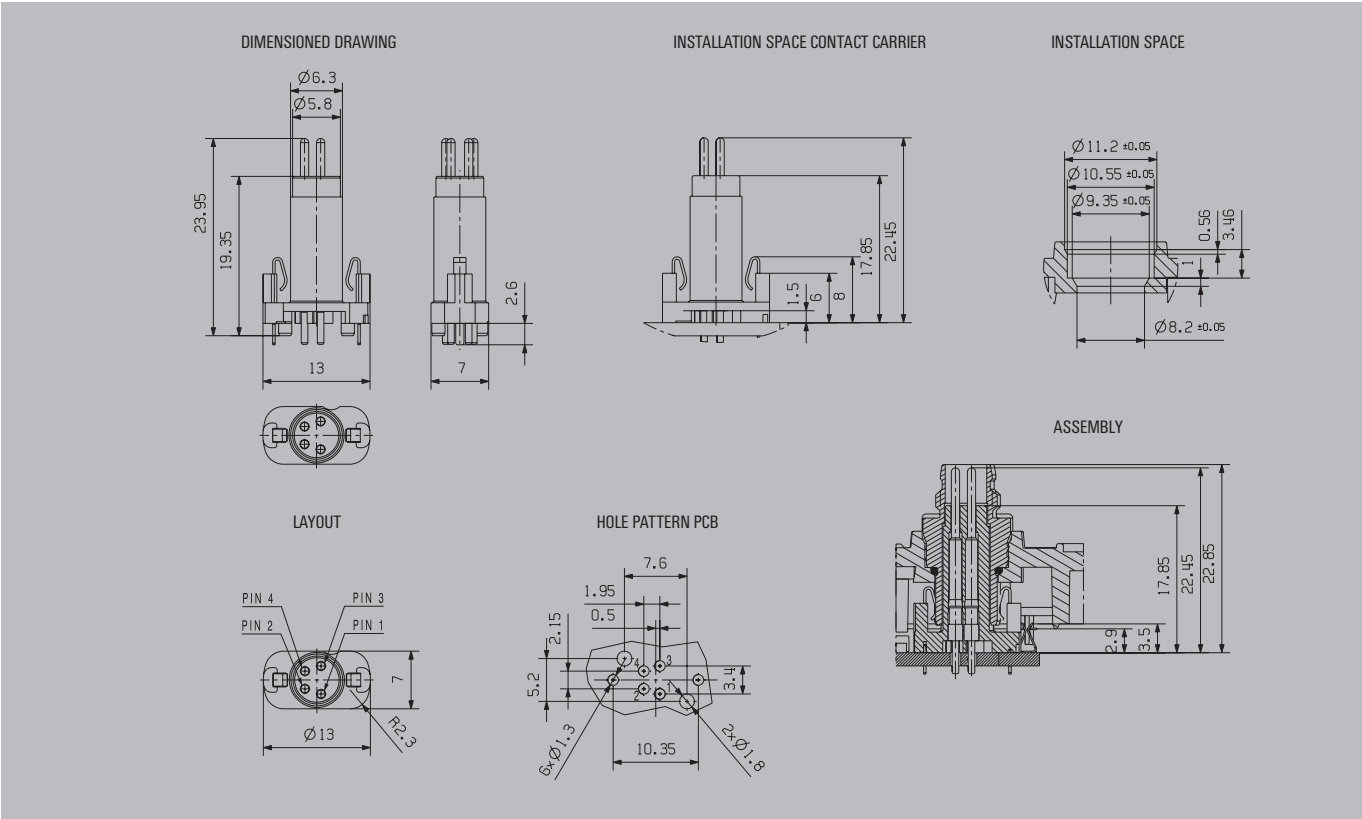
I/O connector, plug M12



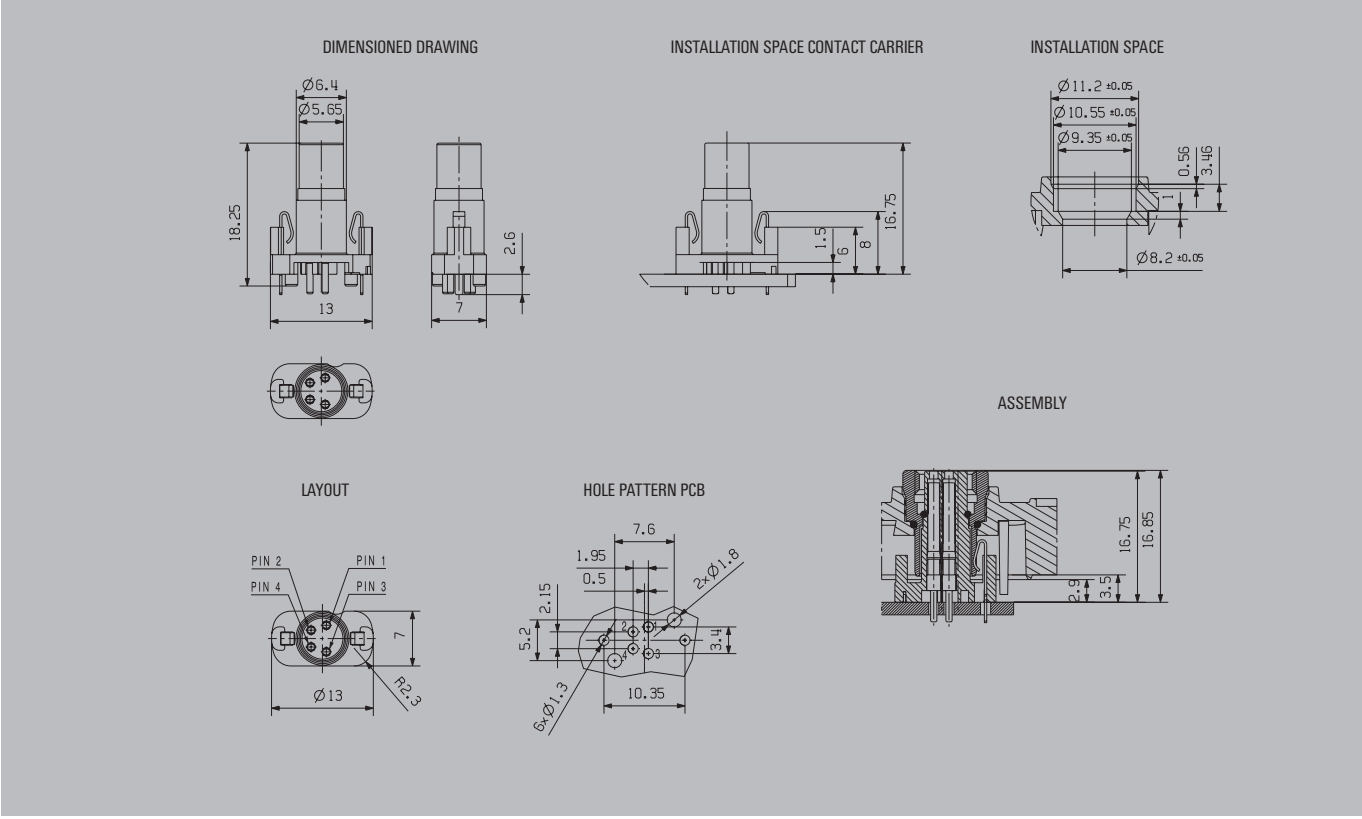
I/O plug socket M12



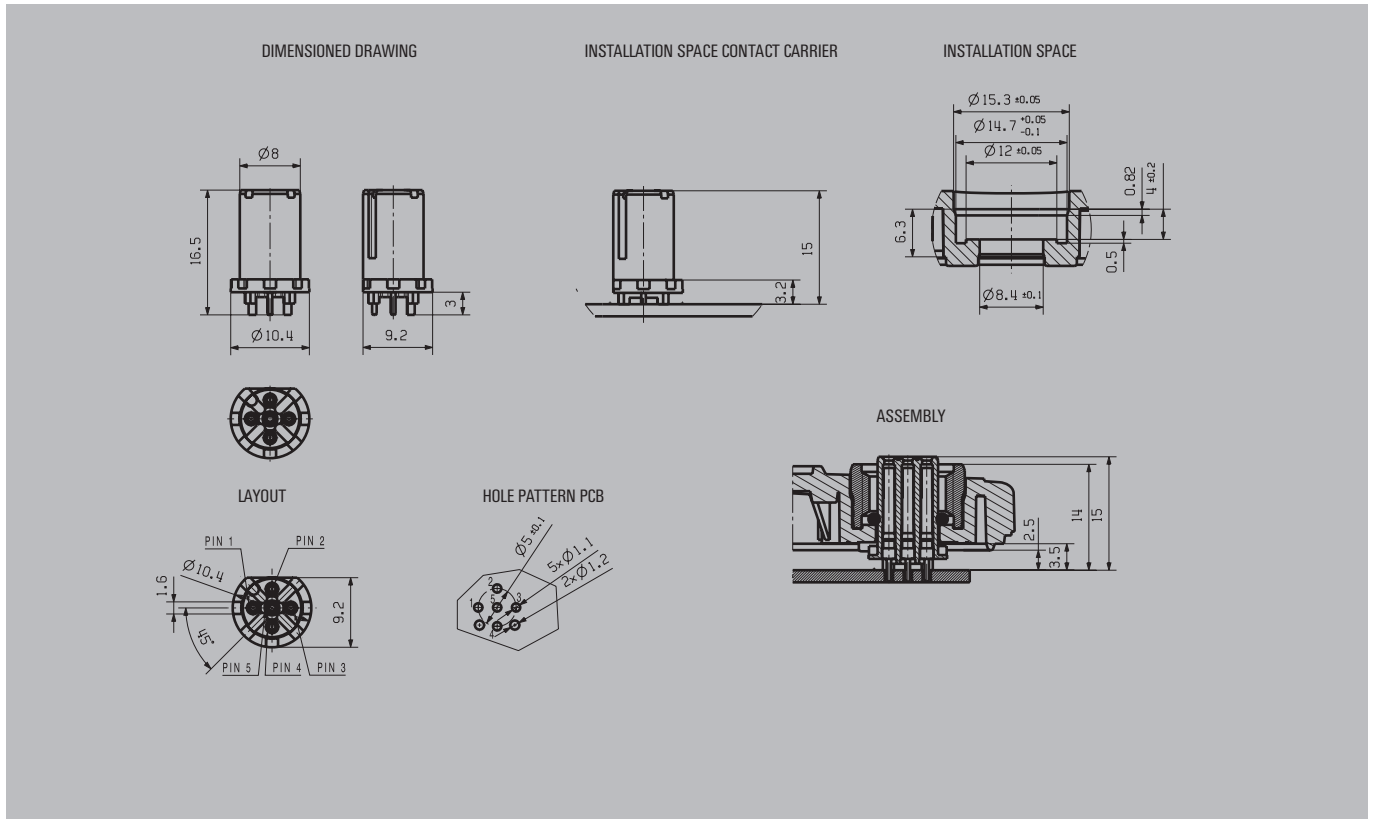
I/O plug pin M8



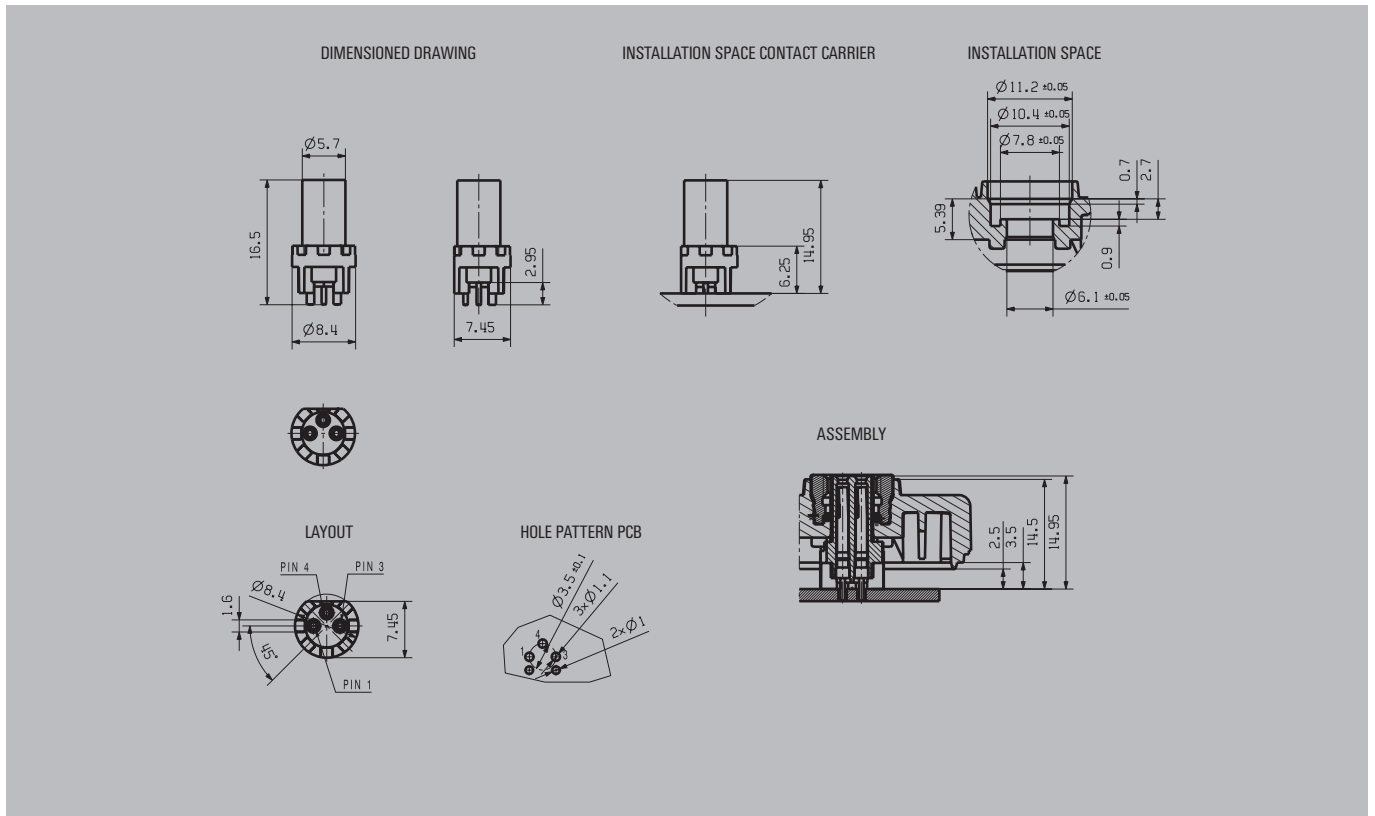
I/O plug socket M8



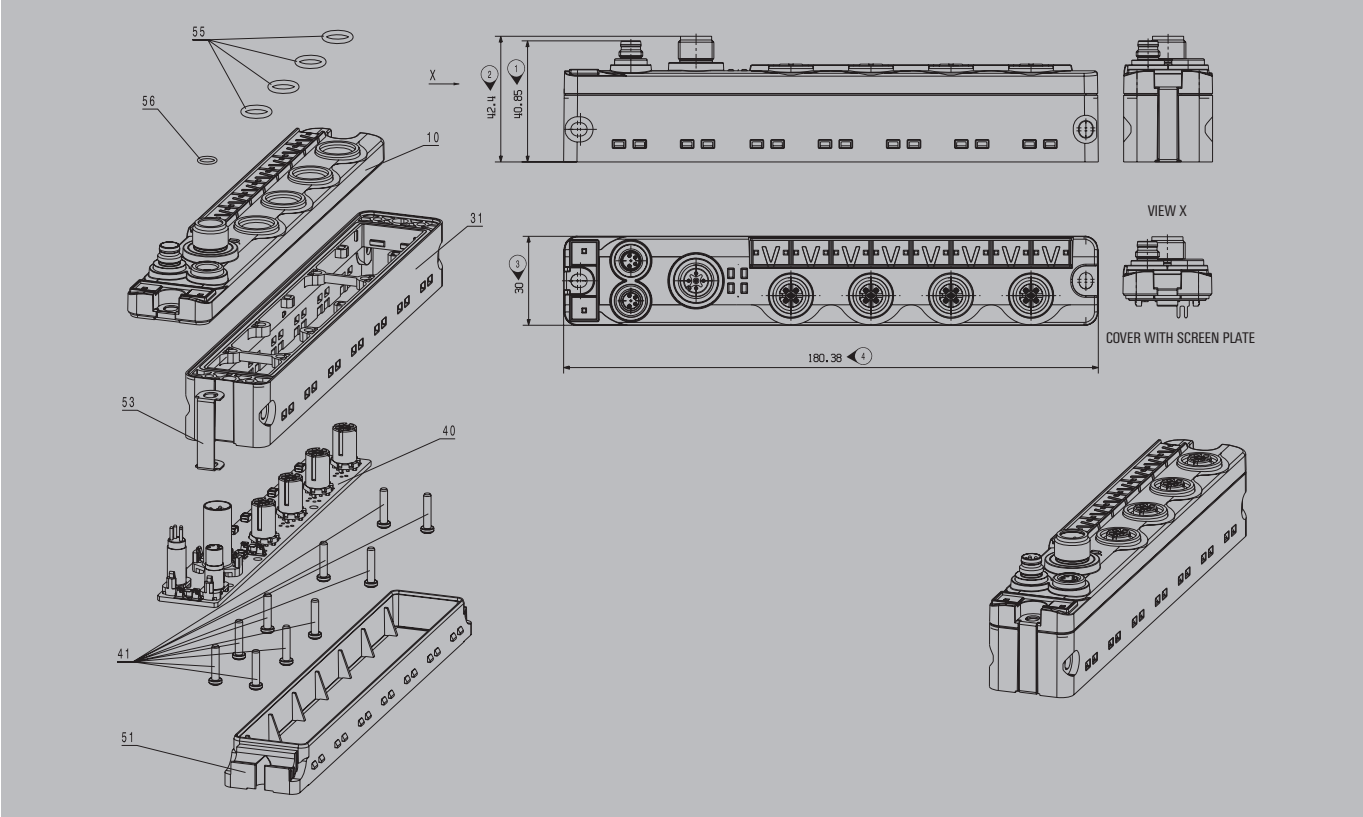
E/A plug socket M12



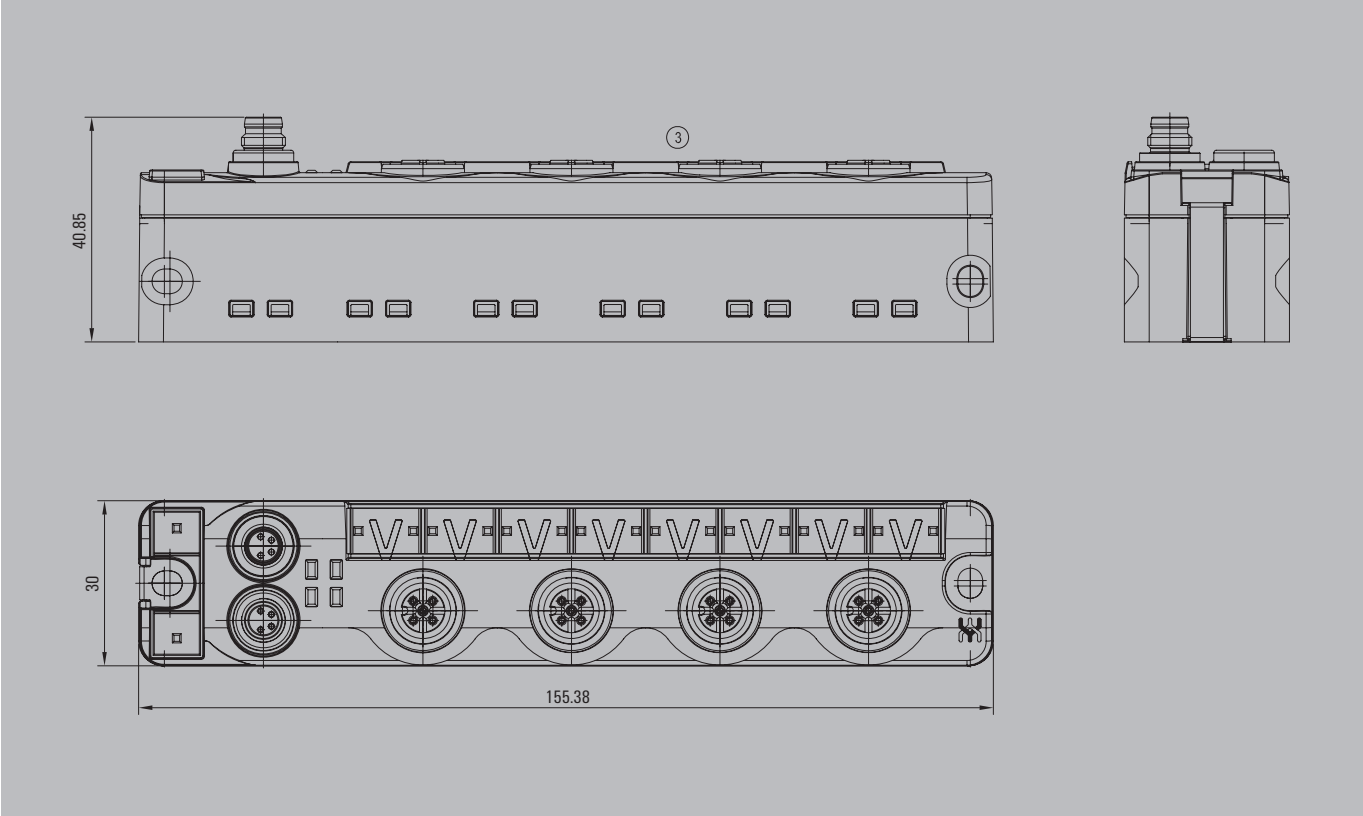
E/A plug socket M8



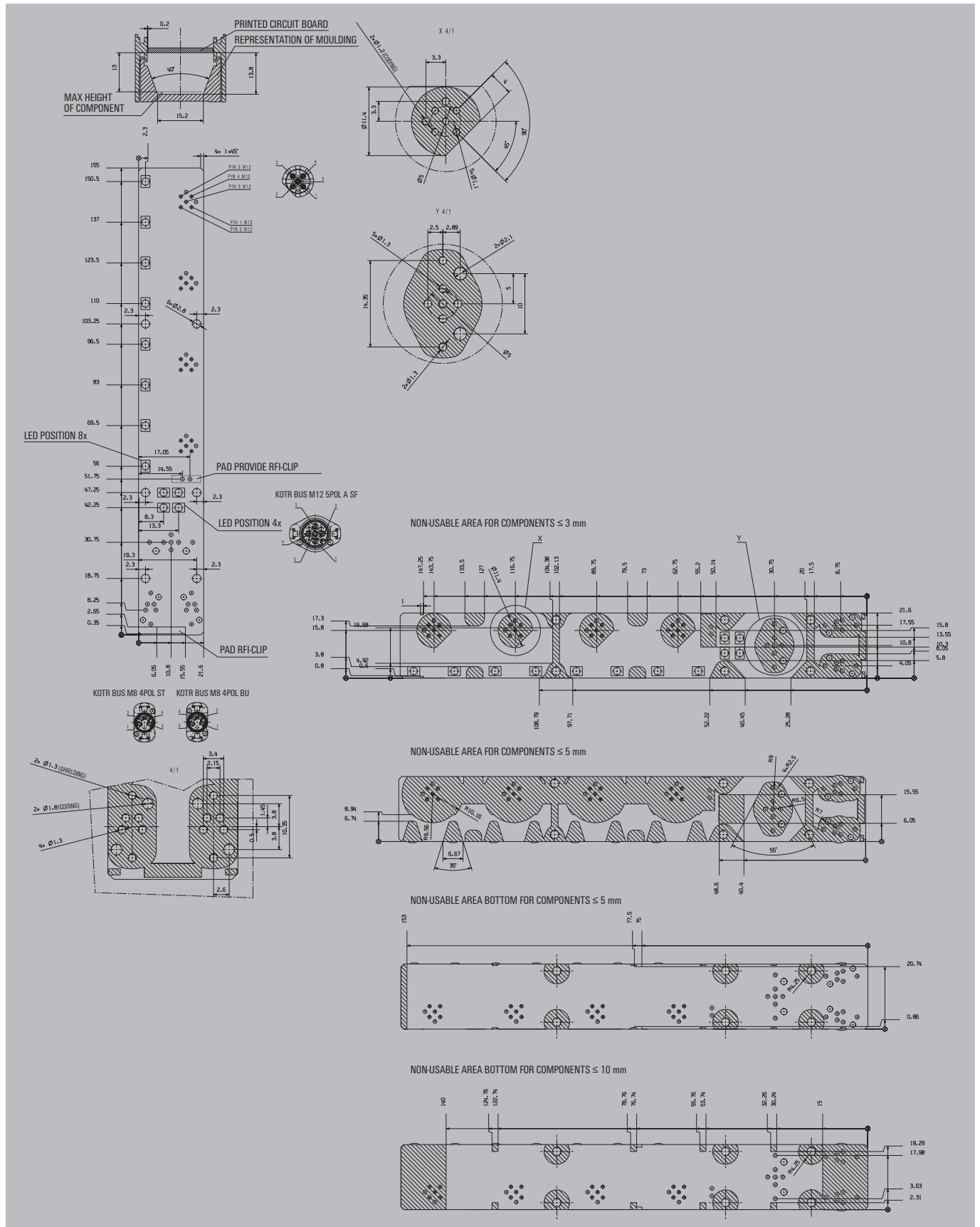
30 mm housing, long



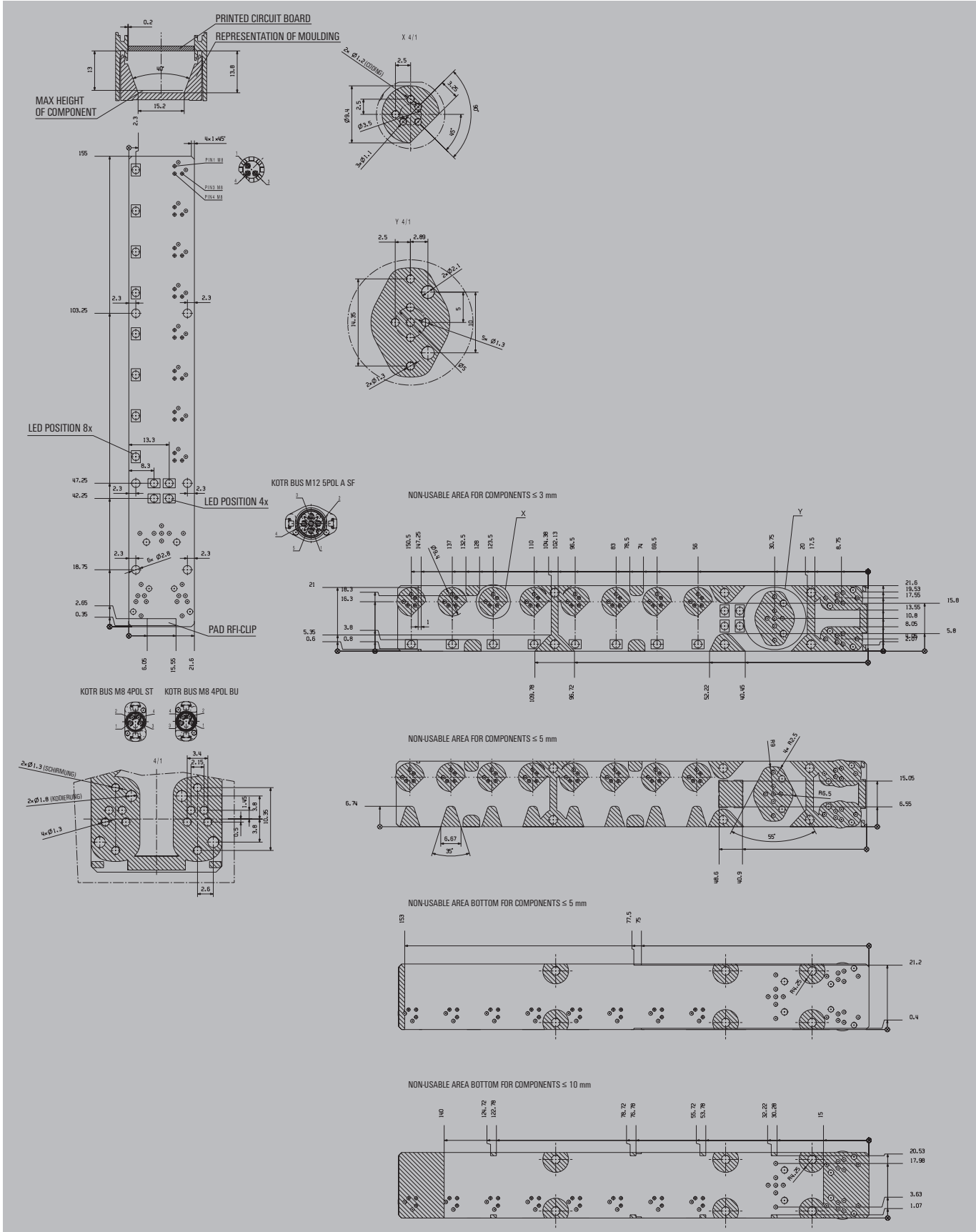
30 mm housing, short



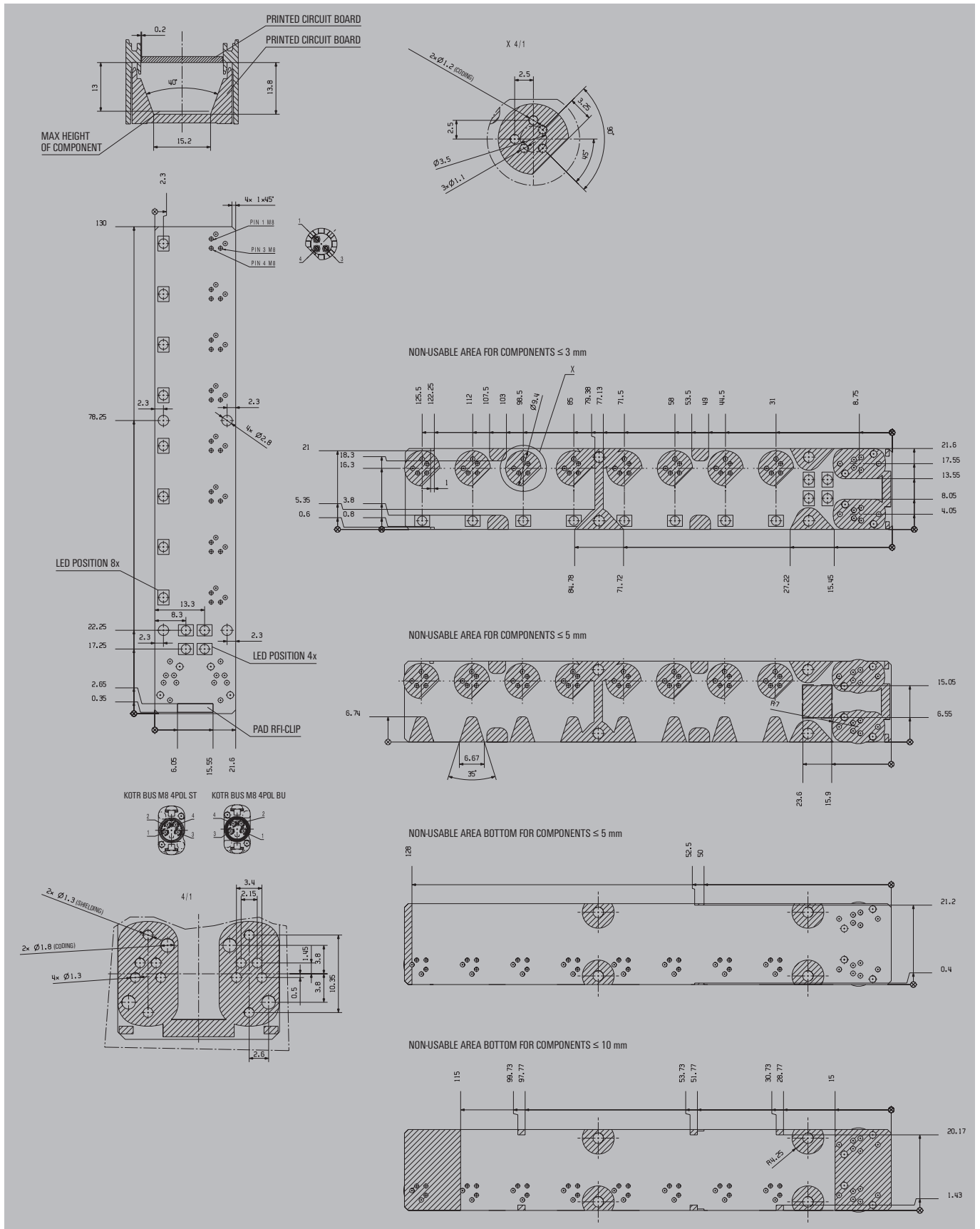
Free space 30 mm housing long with M12



Free space 30 mm housing long with M8



Free space 30 mm housing short with M8



Tools and markers

Tools and markers	Introduction	M.2
	Screwty®	M.4
	Cutting tools	M.8
	Sheathing and insulation stripping tools	M.9
	Stripping and cutting tools	M.10
	Crimping tools	M.13
	Identification systems	M.17

SAI tools

The Screwty® is a state-of-the-art tool that features a unique, patented retention method. The adjustable torque ensures that the connectors have actually been sealed tightly. The Screwty® attachment for M23 is also very important because the sealing method for the M8 and M12 connectors are comparable to the M23.

The fact that the Screwty® attachment slips back is a major advantage of this system. This means that it does not have to be re-applied, as would be the case when using an open

ended wrench. There is also no risk that the screw can loosen when you turn the tool the wrong way since the Screwty® is only capable of exerting force in one direction.

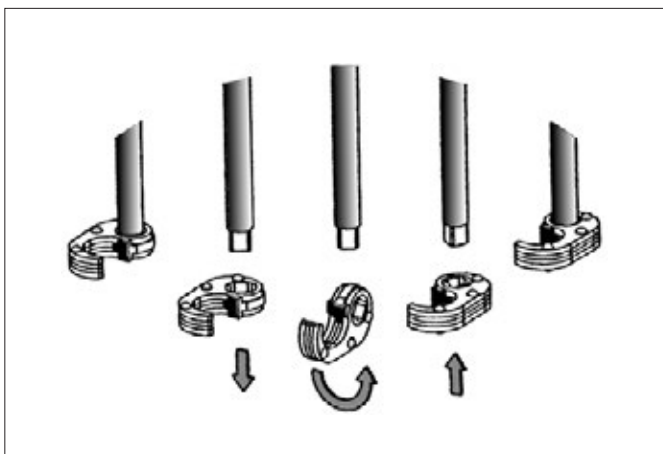
It is also possible to put other tool attachments on the 1/4"-drive. This allows the use of torque spanner wrenches or torque screwdrivers. This is also available without torque for those who cannot fit a torque tool into their budgets.



The Screwty® can also be used to screw on M23 connectors.



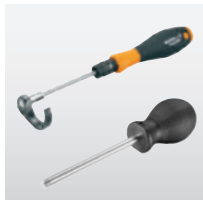
The tool does not have to be re-applied. During the follow-up it simply slips back.



You can change the function from closed to open by simply turning it around.



The Screwty® can also be purchased as a set with other suitable attachments.



Screwty® torque

- Screw-on circular plug, safety sealed
- Easier work



Cutting tools

- Cutting shape for various cable sizes
- Cutting without deformation of the conductor



Sheathing and insulation stripping tools

- No need to adjust cutting depth
- No damage to inner conductors



Stripping and cutting tool

- Special, self adjusting stripping blades do not damage the conductor



Screwty® Bolting tools



Cutting tools



Sheathing and insulation stripping tools



Stripping and cutting tools



SAI M23 crimping tool



Identification systems

Screwty® for M8/M12/M23



The Torque Screwty®

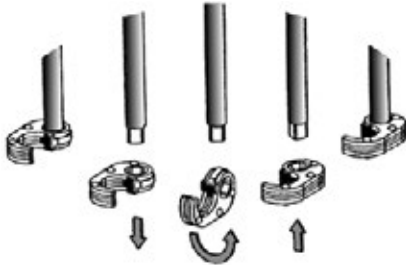
- Easier work
- Screw on circular plug, safety sealed

The perfect tool for all situations

Screwty® is the ideal, universal tool for tightening and releasing cable glands on all common sensor and actuator cables. The Screwty® can also reach those round plugs normally considered inaccessible! No great force is required, simply turn the tool to tighten or release the plug in connector as required.

The Screwty® also fits the majority (more than 90 %) of the cables and plug-in connectors of other suppliers and is therefore a unique tool that is useful worldwide. The Screwty® consists of a handle with a conventional 1/4" fitting. This means it can be used for all sizes: for M12 and M8 round plugs, and the M12F and M8F types, as well as for plugs and sockets on custom cables. The Screwty® is suitable for the following round plugs:

Size	M8	M8F	M12	M12F	M23
	10 ±0.3 mm	11.9 ±0.3 mm	14.5 ±0.3 mm	19.8 ±0.3 mm	26.2 ±0.3 mm
Thread	M8x1	M8x1	M12x1	M12x1	M23x1



An adjustable torque fitting is also available for the Screwty®, for guaranteeing extra reliability during installation.

The torque can be infinitely adjusted between 0.5 and 1.7 Nm. This accurate setting enables all round plugs to be tightened precisely with a pre-set torque.

Weidmüller specifies the following torques for its round plugs:

Size	M8	M8F	M12	M12F	M23
Torque	0.5-0.6 Nm	0.5-0.6 Nm	0.8-1.2 Nm	0.8-1.2 Nm	2-2.5 Nm
Thread	M8x1	M8x1	M12x1	M12x1	M23x1

Simply turn the ratchet to tighten or loosen the cable gland.

The Screwty® can also be fitted with other blades to create a torque screwdriver. You can find these blades in our catalogue "Tools".



Use of an M12 Screwty®

1. Position Screwty®,
2. tighten connector,
3. finished!



Use of an M23 Screwty®

Screwty® standard



Ordering data

Type	Use	Qty.	Order No.
Screwty® M12	moulded M12 lines	1	1900000000
Screwty® M8	moulded M8 lines	1	1900010000
Screwty® M12 F	M12 plugs for custom assembly	1	1900020000
Screwty® M8 F	M8 plugs for custom assembly	1	1900030000

Screwty® attachments



Screwty® M8 attachment

Screwty® M8 F attachment

Screwty® M12 attachment

Screwty® M12 F attachment

Screwty® M23 attachment

Ordering data

Type	Qty.	Order No.
Screwty® M12 KO o. SD	1	1900100000
Screwty® M8 KO o. SD	1	1900110000
Screwty® M12F KO o. SD	1	1900120000
Screwty® M8F KO o. SD	1	1900130000
Screwty® M23	1	1981560000

Legend:

F	for custom assemblies
DM	torque
KO o. SD	ratchet only (attachment)
Screwty®	screwdriver
Screwty® DM	torque screwdriver, interchangeable blade
WK	interchangeable blade
LS	power plug

Screwty® with torque fitting

Setting aid for Screwty® with torque fitting (included)



Ordering data

Type	Use	Qty.	Order No.
Screwty®-M12-DM	moulded M12 lines with torque requirement	1	1900001000
Screwty®-M8-DM	moulded M8 lines with torque requirement	1	1900011000
Screwty®-M12 F-DM	M12 plugs, custom assembly with torque requirement	1	1900021000
Screwty®-M8 F-DM	M8 plugs, custom assembly with torque requirement	1	1900031000

Fitting

Type	Content
Screwty®-M12-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M12 attachment
Screwty®-M8-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M18 attachment
Screwty®-M12 F-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M12 F attachment
Screwty®-M8 F-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 Screwty® M18 F attachment

Screwty® Set



Ordering data

Type	Qty.	Order No.
Screwty® Set	1	1910000000

Fitting	Content
Screwty® Set	1x Screwty® standard handle + 1 M12, M8, M12 F, M8 F attachments

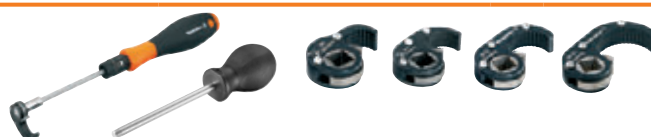
Screwty® interchangeable handle/interchangeable bit / Hexagonal



Ordering data

Type	Qty.	Order No.
1/4" handle	1	4294820000
WK-1/4" (Screwty®)	1	1862200000
SCREWTY SW9	1	1254630000
SCREWTY SW10	1	1254640000
SCREWTY SW13	1	1254650000
SCREWTY SW15	1	1290830000
SCREWTY SW17	1	1254660000
SCREWTY SW18	1	1254670000
SCREWTY SW19	1	1254680000

Screwty® Set-DM



Ordering data

Type	Qty.	Order No.
Screwty® Set-DM	1	1920000000

Fitting	Content
Screwty® Set-DM	1 interchangeable blade, 1 torque handle, 1 setting aid for Screwty® torque, 1 each of Screwty® M12, M8, M12 F, M8 F attachments

Cutting tools

- The cutting blade design for different cable sizes increases the quality of the cuts for smaller cross-sections
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!
- Cutting without deformation of the conductor
- Do not cut live conductors
- Individually tested protective insulation, 1000V, VDE and GS tested in accordance with EN/IEC 60900
- Optimised handle ergonomics
- Minimal hand force required


KT 8





KT 12




 max. 8 mm

 max. 16 mm²

 max. 16 mm²

 max. 16 mm²

 max. 12 mm

 max. 16 mm²

 max. 25 mm²

 max. 35 mm²

Technical data

Max. cutting performance, copper cable	
Copper cable - solid, max.	mm ² /-
Copper cable - stranded, max.	mm ² /-
Copper cable - flexible, max.	mm ² /-
Copper cable, max. diameter	mm
Max. cutting performance, aluminium cable	
Stranded aluminium cable, max (mm ²)	mm ² /-
Stranded aluminium cable, max. diameter	mm
Single-core aluminium cable, max.(mm ²)	mm ²
Data / telephone / control cable	
Data / telephone / control cable, max. Ø	mm
Tool data	
Length / Width / Height	mm
Weight	g
Note	

KT8		
16		
16 / 6		
16 / 6		
8		
16 / 6		
8		
16		
8		
185 / 65.5 / 30		
180		
Tool closed		

KT12		
16		
25 / 3		
35 / 2		
12		
25 / 6		
8		
25		
12		
225 / 63.5 / 30		
300		
Tool closed		

Ordering data

Version
Note

Type	Qty.	Order No.
KT 8	1	9002650000
Note		

Type	Qty.	Order No.
KT 12	1	9002660000
Note		

Stripping and cutting tools

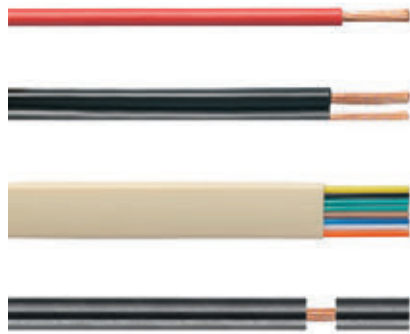
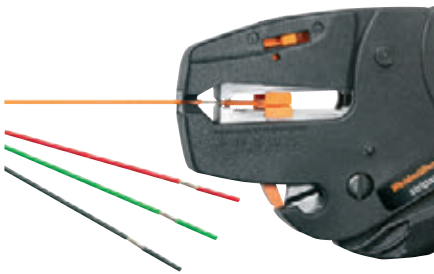
- For flexible and solid conductors
- Double-insulated cables in two process steps without special adjustment
- Automatic opening of clamping jaws after stripping
- No play in self-adjusting cutting unit
- Long service life
- No fanning-out of individual conductors
- Optimised ergonomic design
- Stripping length adjustable via end stop
- Adjustable to diverse insulation thicknesses
- Selectable partial stripping
- Removable handle shells
- Fold-out cutting protection
- Personalised marking with ESG device marker

stripax®

0.08...10 mm²



- Stripping: PVC-insulated flexible conductors, ranging from 0.08...10 mm² (~AWG 28...7)
- Cutting: PVC-insulated flexible conductors, ranging from 0.08...6 mm² (~AWG 28...7)
- Processing of multi-conductors, with thin flat ribbon cables even several conductors in one operation
- No damage to the conductors due to special, self-adjusting stripping blades



Technical data

Max. stripping performance	
Cable type	
Wire cross-section, min. / max.	
Stripping length, max.	mm
Cutting performance	
Conductor cross-section (cutting capacity)	mm ²
Tool data	
Length	mm
Weight	g
Note	

STRIPAX	
Flexible and solid conductors with PVC insulation	
0.08...10	
25	
6	
190	
175	
Note	

Ordering data

Version
Note

Type	Qty.	Order No.
STRIPAX	1	9005000000
STRIPAX ZERT	1	9017330000
Note		

Accessories

Note

Type	Qty.	Order No.
ERME 10 ² SPX 4	1	1119030000
Note		

Stripping and cutting tools

multi-stripax®

A multifunctional stripping tool for use on a multitude of conductor insulation forms and configurations – even those not covered by the standard

multi-stripax® the troubleshooter

- Interchangeable stripping units
- Proper stripping of any conductor round, flat or special profiles, thanks to the specially shaped stripping blades
- Incorporates cutting function for up to 2.5 mm² solid and 6 mm² fine
- Fatigue free operation thanks to ergonomic design
- No damage to conductor or remaining insulation
- Best stripping results for industrial applications
- Stripping results reproduced accurately time and time again
- A long lasting, reliable tool thanks to its robust design
- Plus, the customary Weidmüller repair service

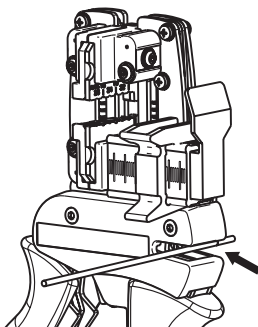
Special stripping units – the answer to diverse stripping tasks

The multi-stripax® tool, distinguished by its robust design, was developed, following customer feedback, to handle all the stripping tasks they have met with in practice.

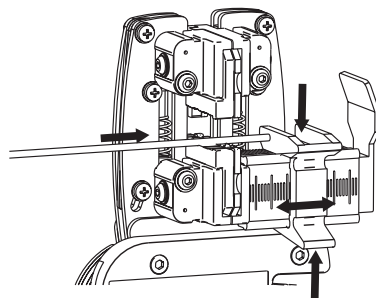
Thanks to its interchangeable stripping units, a special solution can be found for every challenge you are likely to meet in the marketplace.

The specially shaped stripping blades guarantee perfect stripping results. The guide plates ensure the correct positioning of the wire and therefore prevent damage to the remaining wire. The clamping jaws hold the conductor with just the right force during the stripping operation and are matched to the specific situation at hand. The flexibility of the multi-stripax® to affect the result of the stripping operations depending on the different variables it encounters makes it a universal troubleshooter.

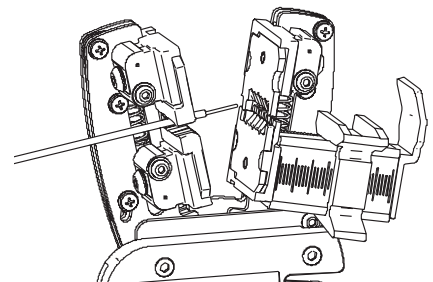
Cutting



Positioning



Stripping



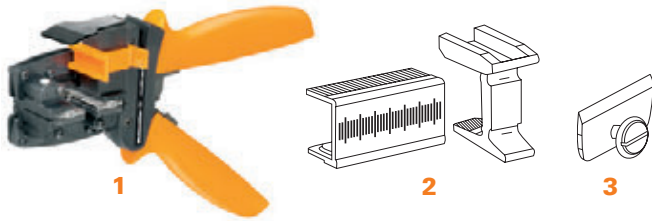
multi-stripax®



Technical data

Cable Type	PVC, Teflon, PTE, PUR, silicone, halogen-free
Conductor cross-section, min.	2 mm
Conductor cross-section, max.	no limit (in several steps)
max. cutting capacity, fine-strand	6 mm ²
max. cutting capacity, solid	2.5 mm ²
max. cutting capacity, ribbon	10.2 x 4 mm
Length/Width/Height	250 / 85 / 40 mm
Weight	250 g
Note	

multi-stripax® incl. stripping unit



- High quality stripping for industrial applications
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations
- Adjustable stop for setting stripping lengths from 2.3 to 30 mm
- Highly flexible thanks to interchangeable stripping units
- Stripping results reproduced accurately time and time again
- No damage to the conductor or insulation
- A long lasting, reliable tool thanks to its robust design
- Integral cutting function for max. 2.5 mm² solid or 6 mm² flexible cables

Ordering data

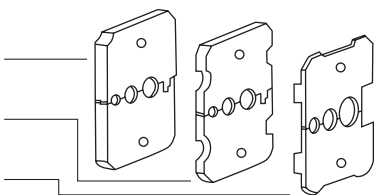
Illustration	Type	Qty.	Order No.	Features
1	multi-stripax® 6-16	1	9202210000	PVC-insulated cables; Cable cross-section 6 up to 16 mm ² ; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm ² 2. station solid, stranded and flexible 10 mm ² 3. station solid, stranded and flexible 16 mm ² double stranded (flexible) Cutting function up to 6 mm ²
1	multi-stripax® ASI	1	9202250000	ASI Bus cables 2 x 1.5 mm ² flexible for PTE, PUR and EPDM insulated cables Stripping of outer insulation and inner cable Cutting function up to 6 mm ²
1	multi-stripax® GKW LW	1	9205760000	Railway cable Radox GKW LW; Cable cross-section 1.0; 1.5 and 2.5 mm ² max. stripping lengths depends on cable design / cable type Cutting function up to 6 mm ²
2	ERAN multi-stripax®	1	9203100000	Length stop
3	ERME multi-stripax®	1	9203070000	Cutting knife

Note

Stripping units for multi-stripax®

Stripping unit consists of:

- Clamping jaws
- Short symbol KLBC SPX SP
- Insulation stripping tool
- Short symbol AIME SPX SP
- Guide plate
- Short symbol FUEPL SPX SP



- Highly flexible thanks to interchangeable stripping units
- High quality stripping for industrial applications
- Specially shaped stripping blades enable stripping of special types of insulation and conductor configurations

e = solid
m = stranded
f = finely stranded

Ordering data

Type	Qty.	Order No.	Features
AIE multi-stripax® 6-16	1	9202260000	PVC-insulated cables; Cable cross-section 6 up to 16 mm ² ; max. stripping lengths depends on cable design / cable type 1. station solid, stranded and flexible 6 mm ² 2. station solid, stranded and flexible 10 mm ² 3. station solid, stranded and flexible 16 mm ² double stranded (flexible)
AIE multi-stripax® ASI	1	9202300000	ASI Bus cables 2 x 1.5 mm ² flexible for PTE, PUR and EPDM insulated cables Stripping of outer insulation and inner cable
AIE multi-stripax® GKW LW	1	9205770000	Railway cable Radox GKW LW; Cable cross-section 1.0; 1.5 and 2.5 mm ² max. stripping lengths depends on cable design / cable type

Crimping tools

Crimping tool for M12 cable connector

SAI-TMDCD



Ordering data

Hand crimping tool
Note

Type	Qty.	Order No.
SAI-TMDCD	1	1381710000

Accessories

Crimping die for hand crimping tools
For crimp flange PROFINET (D-code), \varnothing 6.5 mm
For crimp flange Ethernet (D-code), cable RAILCAT \varnothing 6.6 mm
For crimp flange Ethernet (D-code), cable RAILCAT \varnothing 7.3 mm
For crimp flange Ethernet (D-code), cable RAILCAT \varnothing 8.3 mm
DUO crimping die for hand crimping tools
For M12 contact and crimping sleeve PROFINET (D-code), Cable PROFINET \varnothing 6.5 mm
Note

Type	Qty.	Order No.
SAI-CEH075	1	1381760000
SAI-CEH080	1	1381730000
SAI-CEH090	1	1381740000
SAI-CEH095	1	1381750000
SAI-CEH-M12D-KCR075	1	1381770000

Crimping tool for turned contacts (M12 cable connector)

M12 MIL hand crimping tools (TMCGK)

For crimping turned contacts AWG 12 - AWG 26



Positioner for M12 MIL hand crimping tools

PROFINET (D-code) with the TMCGK



Ordering data

Type	Qty.	Order No.
SAI-TMCGK	1	1381670000

Ordering data

Type	Qty.	Order No.
SAI-TMC - P4	1	1381680000

Mounting tool for M12 cable connector

Mounting tool for Industrial Ethernet cable shielded bushing

M12 MIL hand crimping tools (TMCSK)

For crimping turned contacts AWG 20 - AWG 32



Positioner for M12 MIL hand crimping tools

PROFINET (D-code) with the TMCSK



Ordering data

Type	Qty.	Order No.
SAI-MDC12D	1	1381830000

Ordering data

Type	Qty.	Order No.
SAI-TMCSK	1	1381690000

Ordering data

Type	Qty.	Order No.
SAI-TMC - PD	1	1381700000

Crimping tools

This tool is suitable for M23 signal connectors and power connectors.



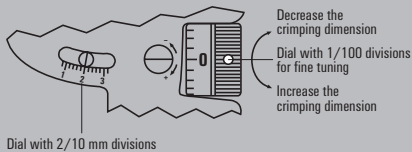
Adjusting the crimping dimensions

The adjustment mechanism is used to set the crimping depth of the crimping mandrel as described below.

The adjusting dial is used to prepare the infeed; the dial can be turned clockwise (for decreasing the dimension) or counter-clockwise (for increasing the dimension).

Adjustment precision

- 1 division mark on the dial v 1/100 mm adjustment
- 1 complete revolution of the dial v 0.2 mm adjustment read from scale
- 5 revolutions of the dial v 1 mm adjustment read from scale



Verifying the crimping dimension

The four-mandrel crimping tool is pre-set at the factory. The actual crimping size should still be checked periodically. It should be checked using the plug gauge (Ø 2.0 mm) that is included with the crimping tool as described below. Use the dial on the stationary tool shank to set the size to 2.0 mm on the scale. Set to the zero-point tick mark on the dial and close the tool. (Refer to the diagram showing the crimping size adjustment.) At this setting, it should be possible to move the 2.00-mm-Ø plug gauge without any play or extra room. If this is not possible, then the size deviation (+/-) can be determined using the dial's fine-adjustment mechanism. If this size check reveals that the tool is not within the tolerance range specified by the manufacturer of the contacts, then you should contact the manufacture of the tool for further inspection.

Servicing and maintenance

Before you start to use the hand crimping tool, it must be clean and in proper working condition. Crimp residue or fragments must be removed from the crimping jaws and locator. The joints should be regularly lubricated using machine oil to protect them from dirt. Make sure that all bolts are secured with locking rings.

SAI M23 crimping tool 1

Technical data

Crimp contact	Wire cross-section (mm ²)	Crimping mandrel adjustment	Locator position	Order No.
Crimp male, 1 mm	0.08	0.78	11	1170140000
	0.14	0.81		
	0.25	0.83		
	0.34	0.88		
	0.56	0.97		
Crimp male, 1 mm	0.75	0.75	11	1170170000
	1.00	1.00		
	1.50	1.50		
Crimp female, 1 mm	0.75	0.75	12	1170210000
	1.00	1.00		
	1.50	1.50		
Crimp male, signal 1 mm	0.14	0.75	11	1170150000
	0.25	0.82		
	0.34	0.90		
	0.50	1.00		
	0.75	1.08		
Crimp female, signal 1 mm (0.08-0.56 mm ²)	1.00	1.20	12	1995860000
	0.14	0.75		
	0.25	0.80		
Crimp female, signal 1 mm (0.34-1.00 mm ²)	0.35	0.87	12	1170180000
	0.50	0.97		
	0.75	1.05		
Crimp male, signal 1.5 mm	0.14	0.75	3	1170220000
	0.25	0.82		
	0.35	0.90		
	0.50	0.96		
	0.75	1.03		
Crimp female, signal 1.5 mm	1.00	1.00	4	1170230000
	0.14	0.75		
	0.25	0.80		
Crimp female, signal 1.5 mm (0.34-1.00 mm ²)	0.35	0.87	4	1170240000
	0.50	0.97		
	0.75	1.05		
Crimp male, signal 2 mm	1.00	1.05	5	1170250000
	0.14	0.75		
	0.25	1.30		
	0.35	1.40		
	0.50	1.40		
Crimp female, signal 2 mm	1.50	1.55	6	1170260000
	2.50	1.75		
	0.14	1.30		
Crimp male, power 1 mm	1.00	1.40	1	1170390000
	0.14	0.75		
	0.25	0.80		
	0.35	0.85		
	0.50	1.03		
Crimp female, power 1 mm	0.75	1.08	2	1995830000
	1.00	1.13		
	0.14	0.75		
Crimp male, power 2 mm	0.25	0.80	7	1170400000
	0.35	0.85		
	0.50	0.89		
	0.75	0.95		
	1.00	1.02		
Crimp female, power 2 mm	1.20	1.20	8	1995820000
	1.40	1.40		
	1.50	1.55		
Crimp male, power 2 mm	1.70	1.70	7	1170410000
	2.50	1.47		
	4.00	1.60		
Crimp female, power 2 mm	4.00	1.60	8	1170420000
	0.75	1.20		
	1.00	1.40		
	1.50	1.55		
	2.50	1.70		
Crimp female, power 2 mm	2.50	1.47	8	1170420000
	4.00	1.60		

Ordering data

Type	Order No.
SAI M23 CRIMPING TOOL 1	1203840000

This tool is only suitable for M23 signal connectors.

Operation mode

The following table specifies the locator positions and the crimping dimensions for various crimping contacts. The contact is inserted through the tool into the locator; this ensures the proper crimping position. The inserted contact is secured by closing gently (approximately to first snap-close level). Now the cable can be easily inserted and it is not possible for the contact to fall out. The tool must be pressed together until it reaches the end stop position in order to function properly. It is then able to open automatically which brings the crimping process to a close in the intended manner.

SAI M23 crimping tool 2

Dial and setting spindle with 0.01-mm divisions for the fine tuning

Crimping position



End stop

Metric scale with 0.2-mm divisions for coarse adjustments

Technical data

Crimp contact	Wire cross-section (mm ²)	Crimping mandrel adjustment	Locator position	Order No.
Crimp male 1 mm	0.08	0.72	1	1170140000
	0.14	0.78		
	0.25	0.82		
	0.34	0.86		
	0.56	0.90		
Crimp male 1 mm	0.75	0.80	1	1170170000
	1.00	0.86		
	1.50	0.95		
Crimp female 1 mm	0.75	0.80	2	1170210000
	1.00	0.86		
	1.50	0.95		
Crimp male 1 mm	0.14	0.86	1	1170150000
	0.25	0.90		
	0.34	0.95		
	0.56	0.98		
	0.75	1.03		
	1.00	1.08		
Crimp female 1 mm (0.08-0.56 mm ²)	0.08	0.75	2	1995860000
	0.14	0.78		
	0.25	0.82		
	0.34	0.86		
	0.56	0.90		
Crimp female 1 mm (0.34-1.00 mm ²)	0.34	0.77	2	1170180000
	0.56	0.82		
	0.75	0.88		
	1.00	0.95		
Crimp male 1.5 mm	0.14	0.65	3	1170220000
	0.25	0.68		
	0.34	0.72		
	0.56	0.81		
	0.75	0.95		
	1.00	1.07		
Crimp female 1.5 mm (0.14-0.75 mm ²)	0.14	0.70	2	1170230000
	0.25	0.73		
	0.34	0.77		
	0.56	0.85		
	0.75	1.05		
Crimp female 1.5 mm (0.34-1.00 mm ²)	0.34	0.88	2	1170240000
	0.56	0.95		
	0.75	1.05		
	1.00	1.13		
Crimp male 2.0 mm	0.75	1.20	4	1170250000
	1.00	1.35		
	1.50	1.45		
	2.50	1.60		
Crimp female 2.0 mm	0.75	1.25	5	1170260000
	1.00	1.35		
	1.50	1.45		
	2.50	1.60		

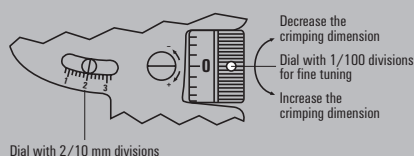
Adjusting the crimping dimensions

The adjustment mechanism is used to set the crimping depth of the crimping mandrel as described below.

The adjusting dial is used to prepare the feed; the dial can be turned clockwise (for decreasing the dimension) or counter-clockwise (for increasing the dimension).

Adjustment precision

- 1 division mark on the dial v 1/100 mm adjustment
- 1 complete revolution of the dial v 0.2 mm adjustment read from scale
- 5 revolutions of the dial v 1 mm adjustment read from scale



Verifying the crimping dimension

The four-mandrel crimping tool is pre-set at the factory. The actual crimping size should still be checked periodically. It should be checked using the plug gauge (Ø 1.0 mm) that is included with the crimping tool as described below. Use the dial on the stationary tool shank to set the size to 1.0 mm on the scale. Set to the zero-point tick mark on the dial and close the tool. (Refer to the diagram showing the crimping size adjustment.) At this setting, it should be possible to move the 1.00-mm-Ø plug gauge without any play or extra room. If this is not possible, then the size deviation (+/-) can be determined using the dial's fine-adjustment mechanism. If this size check reveals that the tool is not within the tolerance range specified by the manufacturer of the contacts, then you should contact the manufacture of the tool for further inspection.

Servicing and maintenance

Before you start to use the hand crimping tool, it must be clean and in proper working condition. Crimp residue or fragments must be removed from the crimping jaws and locator. The joints should be regularly lubricated using machine oil to protect them from dirt. Make sure that all bolts are secured with locking rings.

Ordering data

Type	Order No.
SAI M23 CRIMPING TOOL 2	1203960000

SFC – SlimFix Clip MultiCard

A convenient clip system for wires and cables

Highly durable markers with extra security

The halogen-free SlimFix Clips are made from sturdy polyamide 66 and combine two advantages in one product. Their unique clip closure means they can be fitted at every stage in the installation as easily as an open marker while still offering you the application-based security of a closed marker.

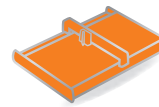
The markers are designed for wire and cable diameters from 1.5 to 7.0 mm, have labelling surfaces up to 30 mm long to give you enough space for extensive character strings which are easily legible and can be printed onto the differently coloured markers using the PrintJet ADVANCED printer.

SlimFix Clip SFC – the benefits to you

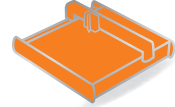
- Compact: secure and quick fitting without additional tools
- Informative: large labelling surface for long character strings
- Strong combinations: different colours and sizes
- Individual: can be printed using PrintJet ADVANCED



PrintJet ADVANCED



Plotter MCP Plus 2



Plotter MCP Basic 2



The SFC is fitted quickly and simply using its clip closure system – no need for additional tools.



Optimal cross-sectional range in all sizes: SFC-type markers in 5 sizes for wire diameters from 1.5 to 7.0 mm.



Technical data

Material	Polyamide 66, halogen-free
UL 94 flammability rating	V2
Temperature range	-40 °C to 100 °C

Ordering data

Colour	International colour code colours, not contained in the range, are available on request.
Special printing	Specify special printing and colours per using the M-Print® PRO software.
Printing	Black or colour
Possible printing systems	PrintJet ADVANCED, PrintJet PRO, MCP Plus 2, MCP Basic 2
Minimum order quantity	1 pack = 5 cards

Selection table

Type	Wire, ext. ø	Wire cross-section
SFC 0	1.5 - 2.5 mm	0.5 - 1.0 mm ²
SFC 1	2.0 - 3.5 mm	0.75 - 2.5 mm ²
SFC 2	3.0 - 5.0 mm	2.5 - 4.0 mm ²
SFC 2.5	4.0 - 6.0 mm	4.0 - 10 mm ²
SFC 3	3.5 - 7.0 mm	4.0 - 10 mm ²

SlimFix SFC

Technical data

Material	Temperature range	Fire class acc. to UL 94	Halogen
Polyamide 66	-40 °C...100 °C	V2	No

Ordering data

Type	Printing area	Length	Qty.	White Order No.	Yellow Order No.	Blue Order No.	Red Order No.	CSP Order No.
SFC 0/12	12x4.1 mm	12 mm	200	1813130000	1813160000	1813170000	1813150000	1813180000
SFC 0/21	21x4.1 mm	21 mm	200	1813190000	1813210000	1813220000	1813200000	1813230000
SFC 0/30	30x4.1 mm	30 mm	150	1813240000	1813260000	1813270000	1813250000	1813280000
SFC 1/12	12x4.1 mm	12 mm	200	1747320001	1747320004	1747320002	1747320003	1752720000
SFC 1/21	21x4.1 mm	21 mm	200	1779080001	1779080004	1779080002	1779080003	1779090000
SFC 1/30	30x4.1 mm	30 mm	150	1805760000	1805730000	1805720000	1805740000	1805750000
SFC 2.5/12	12x5.8 mm	12 mm	120	1062000000	1062010000	1062030000	1062020000	1062040000
SFC 2.5/21	21x5.8 mm	21 mm	120	1062050000	1062070000	1062090000	1062080000	1062110000
SFC 2/12	12x5.8 mm	12 mm	120	1758320001	1758320004	1758320002	1758320003	1763480000
SFC 2/21	21x5.8 mm	21 mm	120	1805810000	1805780000	1805770000	1805790000	1805800000
SFC 2/30	30x5.8 mm	30 mm	90	1805870000	1805830000	1805820000	1805850000	1805860000
SFC 3/12	12x5 mm	12 mm	80	1025220000	1025230000	1025250000	1025240000	1025550000
SFC 3/21	21x5 mm	21 mm	80	1025260000	1025270000	1025300000	1025290000	1025560000
SFC 3/30	30x5 mm	30 mm	60	1025310000	1025320000	1025340000	1025330000	1025570000



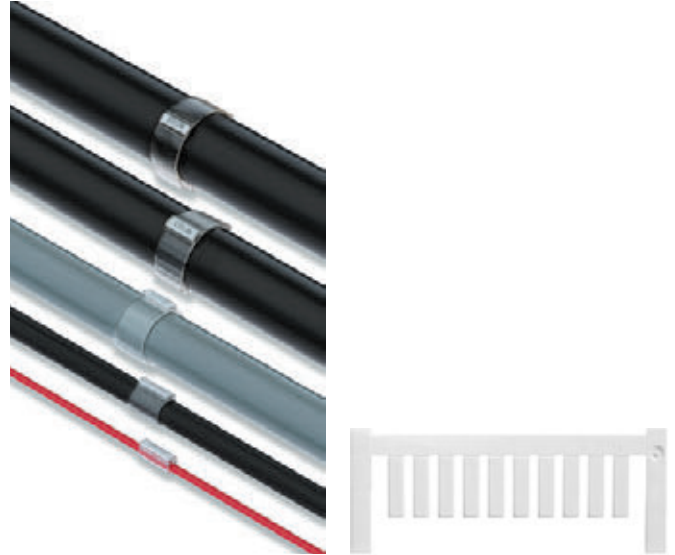
Marker tags for sensor cables

Sleeves for marking sensor cables

Unique marking and identification of sensor/actuator cables can be achieved with a marker tag. Each cable has a sleeve that accepts a marker tag TM-I 18. Cables open at one end have one sleeve, connecting cables have two marker sleeves. The TM-I 18 is available in various colours.

Ordering data

Type	Colour	Order No.
Sleeve		
TM 203/18 V0	transparent	1798480000
TM 4/18 HF/HB	transparent	1719850000
Marker		
TM-I 18 NEUTRAL VS	white	1718431044
TM-I 18 NEUTRAL GE	yellow	1718431687



The advanced inkjet printer

Our PrintJet ADVANCED for exacting standards

Flexible printing of plastic and metal markers

The PrintJet ADVANCED is an inkjet printer which prints plastic markers in MultiCard format and metal markers from the MetalliCard family. Thanks to its high magazine capacity, it is ideal for printing large volumes in continuous operation. The precise colour printing and thermal fixing guarantee optimum print results for durable equipment identification. With these properties, the PrintJet ADVANCED brings efficiency to the operating process – whether operated with our M-Print® PRO software or as a stand-alone solution with pre-installed print templates.

The advantages for you at a glance:

- Precise colour printing
- Printing of metal markers as standard
- High level of automation thanks to magazine capacity of 30 MultiCards
- Durable and robust markers thanks to thermal fixing
- User-friendly thanks to intuitive touch display
- Can be used as stand-alone solution



The 5.7" true colour TFT touch panel can be swivelled and tilted to greatly simplify the work process.



Printing of plastic and metal markers as standard.

Technical data

	Description
Intended use	Printing Weidmüller MultiCards and MetalliCards
Technology	Inkjet procedure with integrated thermal fixing unit
Feed	Automatic magazine for max. 30 MultiCards Individual feed for MetalliCards and MultiCards
Fuses	Right fuse: 10 ATH 240/120 V Left fuse: 2.5 ATH 240/120 V
Application site	Office conditions
Ambient temperature	10 °C – 35 °C 0 °F – 95 °F
Dimensions	Length including output rail: approx. 1.138 mm (44.80") Length not including output rail: approx. 945 mm (37.20") Width: 554 mm (21.81") Height with touch panel folded down: 328 mm (12.91") Height with touch panel folded up: 422 mm (16.61")
Weight	57.8 kg (127.43 lb) with packaging 37.2 kg (82.01 lb) without packaging
Ink system	Colour system – black, cyan, magenta, yellow

- | | | |
|----------------------|--|--|
| Included in delivery | <ul style="list-style-type: none"> • PrintJet ADVANCED • Mains cable • USB cable • One MultiCard DEK 5/5 | <ul style="list-style-type: none"> • One output rail • DVD with M-Print® PRO software • Quick start guide • Operating manual |
|----------------------|--|--|

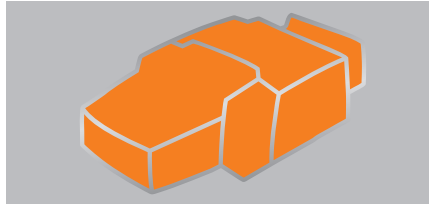
The ink cartridges and ink collector tray are installed in the printer.



High magazine capacity up to 30 MultiCards.

Ink-jet printer

PrintJet ADVANCED



Technical data

EAN	4050118127867
Length	950 mm
Width	555 mm
Height	310 mm
Net weight	48000 Kg
Printing method	Ink jet technology
Printer driver / Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10
Printing speed	Depends on printing quality
Print quality	1200 dpi
Marker type	MultiCard, MetalliCard
Interface	LAN, USB
Fueling system	Ink cartridge, CMYK
Supply voltage	230 V AC / 16 A, 115 V AC / 20 A
Software	M-Print® PRO
Note	

Ordering data

Type	Qty.	Order No.
PRINTJET ADVANCED 115V	1	1338700000
PRINTJET ADVANCED 230V	1	1324380000
Note		

Accessories

PrintJet ADVANCED		Type	Qty.	Order No.
	Software	M-PRINT PRO	1	1905490000
	Ink collecting tray	PJ ADV TNAW	1	1338710000
	Cyan ink	PJ ADV TNTK INK C	1	1338680000
	Magenta ink	PJ ADV TNTK INK M	1	1338670000
	Yellow ink	PJ ADV TNTK INK Y	1	1338650000
	Black ink	PJ ADV TNTK INK K	1	1338690000
	Ink set	PJ ADV TNTK INK SET	1	1338720000
PrintJet PRO				
	Ink collecting tray	PJ PRO TNAW	1	1024140000
	Cyan ink	PJ PRO TNTK INK C	1	1027050000
	Magenta ink	PJ PRO TNTK INK M	1	1027060000
	Yellow ink	PJ PRO TNTK INK Y	1	1027070000
	Black ink	PJ PRO TNTK INK K	1	1027040000
	Ink set	PJ PRO TINTENSET FARBE	1	1027110000
Note				

Thermal transfer printer THM MMP

The compact all-rounder

The only printer you will need for your marking tasks

The THM MMP is a compact and modularly constructed thermal transfer printer that makes full use of its many advantages and high number of potential uses. The integrated cutting and perforation option enables continuous materials to be cut to any length – making your work considerably easier when it comes to cutting and assigning the respective labels. The printer edits markers and labels from the MultiMark family as well as continuous materials, textile and polyester labels, heat shrink sleeves and PLC labels.

Snap-on terminal markers are printed using a separate print contact pressure roller, which can be changed in just 30 seconds.

Another plus: the device is very easy to operate thanks to an intuitive touch display and clear status indicators – in 22 languages. The compact design and low weight of 3.5 kg also ensures that the THM MMP really can be used anywhere, e.g. as a mobile printer for your on-site jobs.

Your benefits with MultiMark

- A printer for all jobs
- Ideal for small and medium print volumes
- Virtually maintenance-free thanks to thermal transfer technology
- Excellent readability (resolution: 300 dpi)
- Flexibility provided by modular perforation and cutting unit
- The contact pressure roller can be changed in 30 seconds
- High output, from 250 Dekafix markers/min.

Technical data

	Description
Intended use	Printing Weidmüller MultiMark, DEK and WS strip marker, shrink tubes, label on rolls
Technology	Thermal transfer
Feed	Manuall mounting
Application site	Office conditions
Ambient temperature	5 °C to 40 °C
Included in delivery	<ul style="list-style-type: none"> • THM MMP • Power cable (Typ E+F/ UK/ USA) • USB cable • RIBBON MM-TB 25/360 SW • RIBBON MM 110/360 SW • Cardboard core • Print roller • Operating manual • DVD with M-Print® PRO software



All-rounder THM MMP: the printer handles marking jobs that would otherwise need to be done by several different devices.



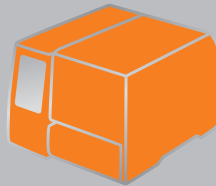
DEK/WS: Flexible connector markers – print, clip, finished



The excellent characteristics of each marker make it easy for you to use MultiMark as Marking system.

Thermal transfer printer

THM MMP



Technical data

EAN	4050118440973
Length	320 mm
Width	253 mm
Height	253 mm
Net weight	5800 Kg
Printing method	Thermotransfer
Printer driver / Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10
Printing speed	125 mm/s
Marker type	MultiMark, Shrink sleeves, Label reel
Interface	USB, LAN
Supply voltage	100...240 V AC
Software	M-Print® PRO
Note	

Ordering data

Type	Qty.	Order No.
THM MMP	1	2430920000
Note		

Accessories

Type	Qty.	Order No.
Cutting blade		
Perforator		
Printer ribbons		
Terminal markers		
Label, wide, black		
Label, narrow, black		
Label, narrow, white		
Shrink sleeve, endless		
Shrink sleeve, assembled		
Miscellaneous accessories		
Reel holder		
Case		
Note		
RIBBON MM-TB 25/360 SW	1	2005090000
RIBBON MM 110/360 SW	1	2005070000
RIBBON MM 80/360 SW	1	2005080000
RIBBON MM 80/300 WS	1	2005040000
RIBBON HSS HF EL 40/300	1	1426210000
RIBBON MM-HS 60/300 SW	1	2448880000
THM MMP EXT.RH	1	1302920000
THM MMP CASE	1	2457760000

Marker tags for distributors

Marker tags can be affixed to distributors to ensure unique identification. For marking our standard M12 products, ESG 9/20 tags are used. M8 and M5 distributors can be labelled with WS 10/5 and DEK 5 markers. For labelling metal distributors, self-adhesive ESG 9/17 must be used.

In the case of the SAI Active family, we differentiate between SAI Active Universal and SAI Active Line. For labelling of Active Universal, we offer ESG 8/13.5/43.3 SAI AU. For labelling of Active Line, the ESG 9/6 is used.

All of these markers are available in MultiCard format and can therefore also be printed using our innovative PrintJet PRO marking solutions.

DEK for marking of M8 and M5 distributors



DEK - Blank

Type	Colour	Width/Length	Qty.	Order No.
DEK 5/5 MC	white	5 mm/5 mm	1000	1609801044

DEK - Custom printing

Type	Colour	Width/Length	Qty.	Order No.
DEK 5/5 MC	white	5 mm/5 mm	200	1609810000

WS for marking of M8 and M5 distributors



WS - Blank

Type	Colour	Width/Length	Qty.	Order No.
WS 10/5 MC	white	5 mm/10 mm	720	1635000000
WS 15/5 MC	white	5 mm/15 mm	480	1609880000

WS - Custom printing

Type	Colour	Width/Length	Qty.	Order No.
WS 10/5 MC	white	5 mm/10 mm	144	1635010000
WS 15/5 MC	white	5 mm/15 mm	96	1609890000

ESG for marking of M12 distributors



Ordering data

Type for SAI Active Line	Colour	Width/Length	Qty.	Order No.
ESG 9/20 MC NEUTRAL WS	white	20 mm/9 mm	200	1609940000

ESG for marking of M12 Universal distributors



Ordering data

Type for SAI Active Universal	Colour	Width/Length	Qty.	Order No.
ESG 8/13.5/43.3 SAI AU	transparent	13.5 mm/43.3 mm/8 mm	5	1912130000

M

Service and support

Service and support	Our expertise for your requirements	V.2
	Benefit from optimum support when using our products	V.4
	Online support and downloads	V.5

Our expertise for your requirements

Service connects – worldwide

Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity. Our worldwide network of industrial managers for machine construction, process automation, energy and traffic engineering and for device manufacturers know the challenges you face and can support you in your specific applications.

Training course on technologies, applications and the detailed functionality of our products is available to you locally or at our headquarter in Germany. Our personal support can answer any questions reliably and expertly. Our online services are available 365 day a year around the clock to provide answers to your questions on our products - from user documentation through software to planning tools.

In short: Weidmüller's global service combines our expertise with your requirements.





Professional advice on planning

Our global network of industrial managers has extensive experience in automation technology and electrical connectivity. This expertise allows us to assist you with advice and planning support in order to work with you on resolving the everyday challenges of your applications.



Technology and application training

Industrial automation is moving towards smart production. It faces the challenges of new technologies and applications. Our varied range of training courses develops this knowledge further or provides more in-depth information on the handling of our products and solutions. Our seminars are modular and can be customised. We can train you and your employees in our academy, on your premises if you wish or online in our webinars at any time.



Customised installation

The challenges for the future are reducing costs and increasing efficiency. This requires intelligent, individual solutions which are tailored to your requirements. We can offer a highly qualified customer-specific production service in our application centre. Whether you need modified products, pre-assembled terminal rails or complete small cabinets: we produce the solutions developed for your application quickly and flexibly.



Online and personal support

From planning through installation to operation, we can provide exactly the right help and information for each step of your application based on our solutions and products: up-to-date, uncomplicated and comprehensive, around the clock, online or in person.



Visit our website for more information

www.weidmueller.com/service

Let's connect.



Benefit from optimum support when using our products

Service connects – worldwide

If our products are used in your automation technology applications, you need the best possible individual support, from planning through installation to operation.

For every stage of your application, we can offer the right tools and information for our products and solutions. Up-to-date, uncomplicated, comprehensive and around the clock via our service portal at www.weidmueller.com/service.

Fast access to our support and services is available via Weidmüller webcodes. Simply select the service you want on the right hand side, then enter the webcode made up of five digits with a preceding hashtag into the search field in the top right corner of www.weidmueller.com and it will bring up the details you need.



Online support and downloads

Exactly the right help and information on our solutions and products

From selection through to operation of our solutions and products in your application, you can access our web portal at any time, with a wide range of information material, software, product configurators and much more.

Engineering Support

As a developer, you need simple processes and system-wide tools. We support you in your development environment with comprehensive data, software tools and interfaces, product selection guides and development samples.



Engineering data

Webcode #01219



Engineering software

Webcode #11377



Produkt software

Webcode #01212



Product configurators, product selection guides and samples

Webcode #01214



Whitepaper for device connectivity

Webcode #11359

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Download all the documents and software relating to our products by simply entering the item number. You can also view our Online Catalogue and research the technical properties of our products.



Find downloads

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Products in the Online Catalogue

Webcode #01217

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Technical catalogue in PDF Format

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Here you will find information on the CE declaration of conformity, on RoHS and REACH and other company related certificates and approvals.

All Weidmüller online services

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There, you can find all our online support services and direct contact details for your local contact.

You can also visit our Products section, the Online Catalogue or find suitable solutions in our Industries section. If you have questions or can't find what you are looking for, please contact our personal support.

Technical appendix

Technical appendix	Sensor Actuator Interface Passive - Overview	W.2
	Coding systems	W.4
	Sensor Actuator Interface Passive - Connection plan	W.10
	Cable overview	W.12
	Drilling templates	W.14
	Resistance Charts	W.24

Sensor Actuator Interface Passive – Overview



Technical data

Material data		M5	M8	M12
Insulating material	- Housing	PA 6 GF	PBT (UL 94 V0)	PBT (UL 94 V0)
	- Contact carrier	PA66	PBT (UL 94 V0)	PBT (UL 94 V0)
Base material	- Contact	CuSn4	CuSn6	CuSn6
	- Screw socket	CuZn, nickel-plated	CuZn, nickel-plated	CuZn, nickel-plated
Temperature range		-25 ...+90	-20...+90	-20...+90
Colour	- Housing	grey, RAL 7032	grey, RAL 7032	grey, RAL 7032
	- PG & contact carrier		black	black
Cable sheathing		PUR	PUR	PUR
Cable type		PUR/PVC	halogen-free	halogen-free, UL
O-ring		Viton	Viton	Viton
Housing seal				foamed PUR
Type of connection, hood version			tension clamp	screw/tension clamp
Clamping range	mm ²		0.08...1.0	0.08...1.5
AWG No.			28...18	22...14
Stripping length, hood version	mm		100	100
Stripping length, screw version	mm		-	7
Stripping length, tension clamp version	mm		7	10
Contact surface			tin	tin
- BL3.5 / B2L				
Contact base material			Cu alloy	Cu alloy
- BL3.5 / B2L				
Torques				
- Hoods	Nm		0.8	0.8
- Blanking plugs	Nm		0.5	0.5
Mechanical data				
Ingress Protection Class*	IP	67	68 (M16/M23 IP 67)	68
Suitability for cable carrier	cycles at 15d	1 Mio. 15d	1 Mio. 15d	2 Mio. 10d
IDC connection				
Max. connect. frequency of a cable with same cross-section				-
Stripping length	mm			
Conductor cross-section (flexible)	mm ²			
Smallest strand diameter	mm			
Conductor insulation material				
Conductor outside diameter	mm			
Cable outside diameter	mm			
Pin assignment				
Electrical data to VDE 110 (Apr 97)				
Operating voltage	V-	10 ... 30	10 ... 30	10 ... 30
Max. current carrying capacity per I/O signal	A	1	2 (Derating)	2 (Derating)
- total with single supply	A	3	8	10 (9 A for F-version)
- total with dual supply	A	-	-	2 x 8 = 16
Rated voltage	V _{eff}	24	32	32
Test voltage	kV _{eff}		1.0	1.0
Pollution severity			3	3
Insulation resistance	Ω		> 10 ⁹	> 10 ⁹
Other data				
Dimensions	see chapter G			
Fixing holes	see chapter G			
Function indicators				
- for operating voltage		1 x LED, green	1 x LED, green	2 x LED, green
- for I/O function		1 x LED, yellow (per function)	1 x LED, yellow (per function)	1 x LED, yellow (per function)
Current isolation (SAI...-M)			-	via 2 jumper plugs
Cable strain relief (SAI...-M)			M20	M20
Max. cable diameter (SAI...-M)	mm		10-14	6-12

* only when plugged in and secured



Technical data

Material data	
Insulating material	- Housing
	- Contact carrier
Base material	- Contact
	- Screw socket
Temperature range	°C
Colour	- Housing
	- PG & contact carrier
Cable sheathing	
Cable type	
O-ring	
Housing seal	
Type of connection, hood version	
Clamping range	mm ²
AWG No.	
Stripping length, hood version	mm
Stripping length, screw version	mm
Stripping length, tension clamp version	mm
Contact surface	
	- BL3.5 / B2L
Contact base material	
	- BL3.5 / B2L
Torques	
- Hoods	Nm
- Blanking plugs	Nm
Mechanical data	
Ingress Protection Class*	IP
Suitability for cable carrier	cycles at 15d
IDC connection	
Max. connect. frequency of a cable with same cross-section	
Stripping length	mm
Conductor cross-section (flexible)	mm ²
Smallest strand diameter	mm
Conductor insulation material	
Conductor outside diameter	mm
Cable outside diameter	mm
Pin assignment	
Electrical data to VDE 110 (Apr 97)	
Operating voltage	V-
Max. current carrying capacity per I/O signal	A
- total with single supply	A
- total with dual supply	A
Rated voltage	V _{eff}
Test voltage	kV _{eff}
Pollution severity	
Insulation resistance	Ω
Other data	
Dimensions	see chapter G
Fixing holes	see chapter G
Function indicators	
- for operating voltage	
- for I/O function	
Current isolation (SAI-...-M)	
Cable strain relief (SAI-...-M)	
Max. cable diameter (SAI-...-M)	mm

* only when plugged in and secured

IDC	
PBT (UL 94 V0)	
PBT (UL 94 V0)	
CuZn, pre-nickel- & gold-plated	
CuZn, nickel-plated	
-20 ... +90	
grey, RAL 7032	
black	
PUR	
PUR/PVC	
Viton	
foamed PUR	
screw/tension clamp	
0.08 ... 1.5	
22 ... 14	
100	
7	
10	
tin	
Cu alloy	
0.8	
0.5	
67	
1 Mio. 15d	
10	
15 ... 20	
0.25 ... 0.5	
0.1	
PVC/PE/PUR	
1.2 ... 1.6	
3.5 ... 5.0	
see next page	
10 ... 30	
2 (Derating)	
10 (9 A for F-version)	
2 x 8 = 16	
32	
1.0	
2	
> 10 ⁹	
2 x LED, green	
1 x LED, yellow (per function)	
via 2 jumper plugs	
M20	
6-12	

M12 Push-Pull	
PA 6 GF	
PBT (UL 94 V0)	
CuSn6	
CuZn, nickel-plated	
-25 ... +80	
grey, RAL 7032	
black	
PUR	
halogen-free, UL	
Viton	
foamed PUR	
tension clamp	
0.08 ... 1.5	
22 ... 14	
100	
7	
10	
tin	
Cu alloy	
0.8	
68	
2 Mio. 10d	
10 ... 30	
2	
10	
32	
1.0	
3	
1 x LED, green	
1 x LED, yellow (per function)	
M20	
6-12	

Contact assignment

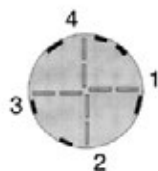
SAI-M/SAI-F - IDC

3-pole:



Pole	Colour code	Assignment
1	brown	+ 24 V DC
2	white	input/output
3	blue	0 V DC

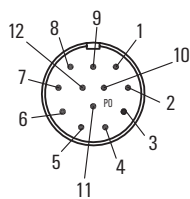
4-pole:



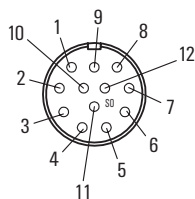
Pole	Colour code	Assignment
1	brown	+ 24 V DC
2	no colour	input/output 2
3	blue	0 V DC
4	black	input/output 1

M23

12-pole:



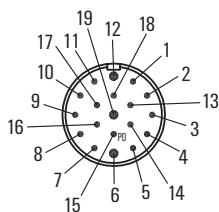
Male



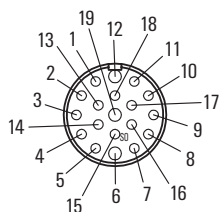
Female

Pole	Colour code	Plug-in station	Contact M12
1	white	1	4
2	green	2	4
3	yellow	3	4
4	grey	4	4
5	pink	5	4
6	red	6	4
7	black	7	4
8	violet	8	4
9	blue (-)	1- 8	3
10	blue (-)	1- 8	3
11	brown (+)	1- 8	1
12	green-yellow (PE)	1- 8	5

19-pole:



Male



Female

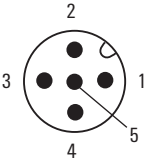
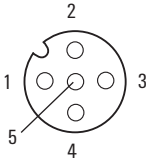
Pole	Colour code	Plug-in station	Contact M12
1	violet	8	4
2	red	6	4
3	grey	4	4
4	red/blue	2	2
5	green	2	4
7	grey/pink	1	2
8	white/green	3	2
9	white/yellow	5	2
10	white/grey	7	2
11	black	7	4
13	yellow/brown	6	2
14	brown/green	4	2
15	white	1	4
16	yellow	3	4
17	pink	5	4
18	grey/brown	8	2
6	blue (-)	1- 8	3
12	green-yellow (PE)	1- 8	5
19	brown (+)	1- 8	1

Coding systems for round connectors

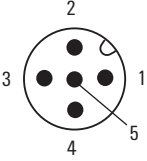
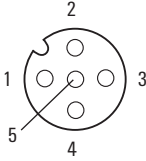
Round connectors are used for wiring sensors, actuators and data cables. To prevent wiring errors, there are different coding systems: for M12, the plug-in connectors are coded A, B and D. The M12 A-coded plug-in connector is available with 3 to 5 pins, 8 and 12 pins. There is no coding for M8 and M5.

The arrangement of the pins in the M8 plug-in connector (asymmetrical) rules out the possibility of 3- and 4-pole M8 plug-in connectors being connected together. In the case of M5 plug-in connectors, 3- and 4-pole plug-in connectors can be connected together since the pins are symmetrically arranged.

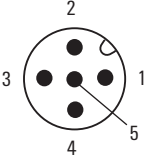
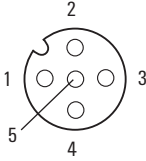
A-coded, M12, Sensor wiring

2- to 5-pole:		Pole	Colour code	Assignment
 <p>Male</p>	 <p>Female</p>	1	brown	+ 24 V DC
		2	white	input/output 2*
		3	blue	0 V DC
		4	black	input/output 1
		5	grey	FE
		Housing		shield**
			*) = only 5-pole version	**) = only with shielded version

A-coded, M12, PROFIBUS-PA

2- to 5-pole:		Pole	Colour code	Assignment
 <p>Male</p>	 <p>Female</p>	1	red	DATA-B
		3	green	DATA-A
		Housing		shield

A-coded, M12, CANopen/DeviceNet™

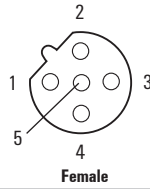
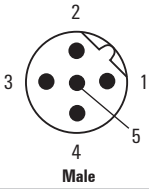
2- to 5-pole:		Pole	Colour code	Assignment
 <p>Male</p>	 <p>Female</p>	1		shield (drain wire)
		2	red	V+
		3	black	V- (CAN_GND)
		4	white	CAN_H signal
		5	blue	CAN_L signal
		Housing		shield

Coding systems



B-coded, M12, PROFIBUS-DP

3- to 5-pole:

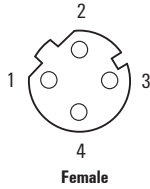
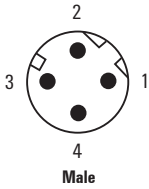


Pin	Colour code	Assignment
2	green	Data A
4	red	Data B
Housing		shield

D-coded, M12, Industrial Ethernet

Industrial Ethernet

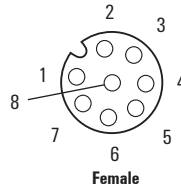
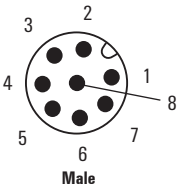
4-pole:



Pin	Colour code	Assignment
1	yellow	TD+ (transmit data +)
2	white	RD+ (receive data +)
3	orange	TD- (transmit data -)
4	blue	RD- (receive data -)
Housing		shield

M12

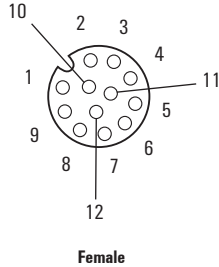
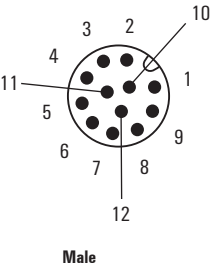
8-pole:



Pole	Colour code	Assignment
1	white	signal
2	brown	signal
3	green	signal
4	yellow	signal
5	grey	+ 24 V DC
6	pink	signal
7	blue	0 V DC
8	red	signal

M12

12-pole:



Pole	Colour code	Assignment
1	brown	+ 24 V DC
2	blue	0 V DC
3	white	input/output 1
4	green	input/output 1
5	pink	input/output 1
6	yellow	input/output 1
7	black	input/output 1
8	grey	input/output 1
9	red	input/output 1
10	violet	input/output 1
11	grey/pink	input/output 1
12	red/blue	input/output 1

K-coded, M12

5-pole:		Pin	Colour code	Assignment
		1	black 1	
		2	black 2	
		3	black 3	
		4	black 4	
		5	green/yellow	

L-coded, M12

5-pole:		Pin	Colour code	Assignment
		1	brown	
		2	white	
		3	blue	
		4	black	
		5	grey	

S-coded, M12

3-pole:		Pole	Colour code	Assignment
		1	brown	
		2	green/yellow	
		3	blue	

S-coded, M12

4-pole:		Pole	Colour code	Assignment
		1	brown	
		2	black	
		3	grey	
		4	green/yellow	

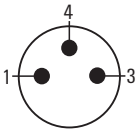
T-coded, M12

4-pole:		Pin	Colour code	Assignment
		1	brown	
		2	white	
		3	blue	
		4	black	

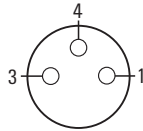
Coding systems

M8 connector position

3-pole:



Male

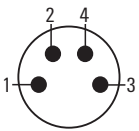


Female

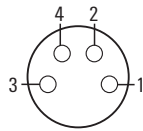
Pin	Colour code	Assignment
1	brown	+ 24 V DC
3	blue	0 V DC
4	black	input/output 1

M8 connector position

4-pole:



Male

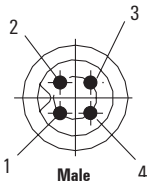


Female

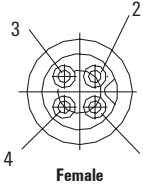
Pin	Colour code	Assignment
1	brown	+ 24 V DC
2	white	input/output 2
3	blue	0 V DC
4	black	input/output 1

M5 connector position

4-pole:



Male

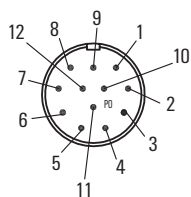


Female

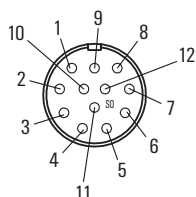
Pin	Colour code	Assignment
1	brown	+ 24 V DC
2	white	input/output 2
3	blue	0 V DC
4	black	input/output 1

M23

12-pole:



Male

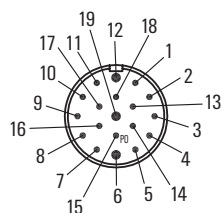


Female

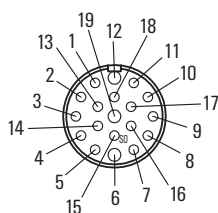
Pole	Colour code	Assignment	Cross-section
1	white	signal	0.34
2	green	signal	0.34
3	yellow	signal	0.34
4	grey	signal	0.34
5	pink	signal	0.34
6	red	signal	0.34
7	black	signal	0.34
8	violet	signal	0.34
9	nc	nc	nc
10	blue	0 V DC	0.75
11	brown	+ 24 V DC	0.75
12	green/yellow	PE	0.75

M23

19-pole:



Male



Female

Pole	Colour code	Assignment	Cross-section
1	violet	signal	0.34
2	red	signal	0.34
3	grey	signal	0.34
4	red/blue	signal	0.34
5	green	signal	0.34
6	blue	0 V DC	0.75
7	grey/pink	signal	0.34
8	white/green	signal	0.34
9	white/yellow	signal	0.34
10	white/grey	signal	0.34
11	black	signal	0.34
12	green/yellow	PE	0.75
13	yellow/brown	signal	0.34
14	brown/green	signal	0.34
15	white	signal	0.34
16	yellow	signal	0.34
17	pink	signal	0.34
18	grey/brown	signal	0.34
19	brown	+ 24 V DC	0.75

Sensor Actuator Interface Passive – Connection plan

Connection plan

Terminal Connection No.	Connector position	M5/M8-contact		M12- contact	IDC-contact		Potential	Conductor colour	
		3-pole	4-pole		3-pole	4-pole		Conductor colour	Colour code
1	= 1	4	4	4	2	4	E/A 1-1	white	WH
2	= 2	4	4	4	2	4	E/A 2-1	green	GN
3	= 3	4	4	4	2	4	E/A 3-1	yellow	YE
4	= 4	4	4	4	2	4	E/A 4-1	grey	GY
5	= 5	4	4	4	2	4	E/A 5-1	pink	PK
6	= 6	4	4	4	2	4	E/A 6-1	red	RD
7	= 7	4	4	4	2	4	E/A 7-1	black	BK
8	= 8	4	4	4	2	4	E/A 8-1	violet	VT
9	= 1	-	2	2*		2	E/A 1-2	grey/pink	GYPK
10	= 2	-	2	2*		2	E/A 2-2	red/blue	RDBL
11	= 3	-	2	2*		2	E/A 3-2	white/green	WHGN
12	= 4	-	2	2*		2	E/A 4-2	brown/green	BNGN
13	= 5	-	2	2*		2	E/A 5-2	white/yellow	WHYE
14	= 6	-	2	2*		2	E/A 6-2	yellow/brown	YEBN
15	= 7	-	2	2*		2	E/A 7-2	white/grey	WHGY
16	= 8	-	2	2*		2	E/A 8-2	grey/brown	GYBN
17	= 1, 3, 5, 7	1	1	1	1	1	U1 + (24 V DC)	brown	BN
18	= 1, 3, 5, 7	3	3	3	3	3	U1 - (0 V)	blue	BU
19	= 2, 4, 6, 8	-	-	1	1	1	U2 + (24 V DC)	red*	RD*
20	= 2, 4, 6, 8	-	-	3	3	3	U2 - (0 V)	black*	BK*
21	= 1, 2, 3, 4, 5, 6, 7, 8	-	-	5	-	-	PE	green/yellow	GNYE

* Contact used in 5-pole version only

Plug insert, hood version

Note:

SAI distributors with fixed cable have a single supply conductor as standard. The voltage U1 is supplied to all the sockets. An SAI distributor with fixed cable but with separate supply voltage is available on request.

Pin assignment



Tension clamp connection



Screw connection



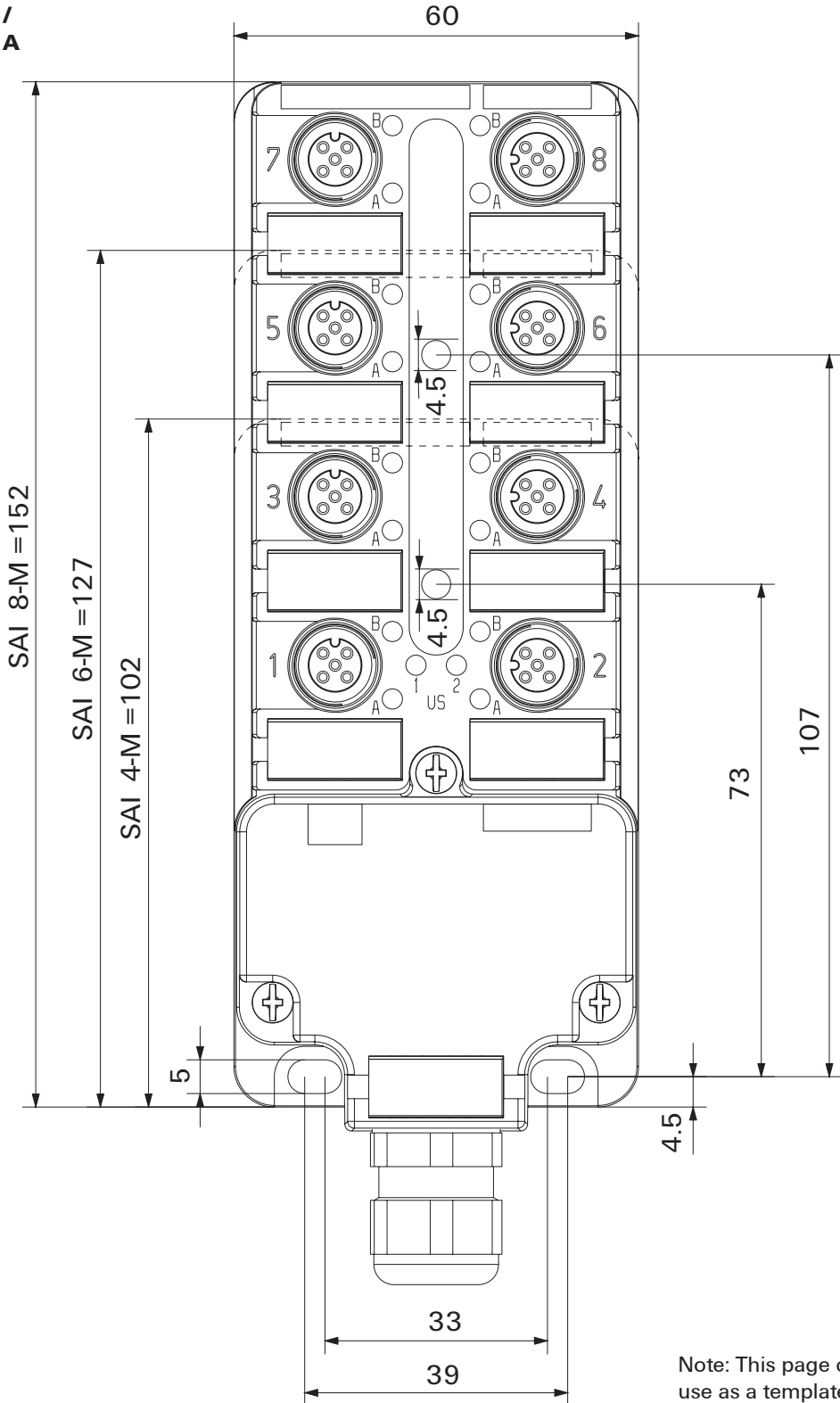
Cable overview

Cables	Identification in article designation	Cable gland	Wire number / cross-section	Colour	Colour coding	Suitable for torsion	Wire core insulation
M8 unshielded							
PVC	V	M8	3x0.25 mm ²	black	BR,BL,SW	No	PVC
	V	M8	4x0.25 mm ²	black	BR,WS,BL,SW	No	PVC
PUR halogen-free	U	M8	3x0.25 mm ²	black	BR,BL,SW	No	TPM
	U	M8	4x0.25 mm ²	black	BR,WS,BL,SW	No	TPM
PUR halogen-free yellow	UGE	M8	3x0.25 mm ²	yellow	BR,BL,SW	No	TPE
	UGE	M8	4x0.25 mm ²	yellow	BR,WS,BL,SW	No	TPE
PUR resistant to welding beads	T	M8	3x0.34 mm ²	black	BR,BL,SW	Yes	TPE
	T	M8	4x0.34 mm ²	black	BR,WS,BL,SW	Yes	TPE
M8 shielded							
PUR halogen-free	U	M8	3x0.34 mm ²	black	BR,BL,SW	No	PP
	U	M8	4x0.34 mm ²	black	BR,WS,BL,SW	No	PP
M12 unshielded							
PVC	V	M12	3x0.34 mm ²	black	BR,BL,SW	No	PVC
	V	M12	4x0.34 mm ²	black	BR,WS,BL,SW	No	PVC
	V	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	No	PVC
PUR halogen-free	U	M12	3x0.34 mm ²	black	BR,BL,SW	No	TPM
	U	M12	4x0.34 mm ²	black	BR,WS,BL,SW	No	TPM
	U	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	No	TPM
	U	M12	8x0.25 mm ²	black	BR,WS,BL,GR,GN,GE,RS,RT	No	PP
PUR halogen-free yellow	UGE	M12	3x0.34 mm ²	yellow	BR,BL,SW	No	TPE
	UGE	M12	4x0.34 mm ²	yellow	BR,WS,BL,SW	No	TPE
	UGE	M12	5x0.34 mm ²	yellow	BR,WS,BL,SW,GR	No	TPE
PUR resistant to welding beads	T	M12	3x0.34 mm ²	black	BR,BL,SW	Yes	TPE
	T	M12	4x0.34 mm ²	black	BR,WS,BL,SW	Yes	TPE
	T	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	Yes	TPE
M12 shielded							
PUR halogen-free	U	M12	3x0.34 mm ²	black	BR,BL,SW	No	TPE
	U	M12	4x0.34 mm ²	black	BR,WS,BL,SW	No	TPE
	U	M12	5x0.34 mm ²	black	BR,WS,BL,SW,GR	No	TPE
	U	M12	8x0.25 mm ²	black	BR,WS,BL,GR,GN,GE,RS,RT	No	PP
Data cables							
Universal Pro (SubBus)							
PUR halogen-free	U-SB	M8	4x0.34 mm ²	black	BR,WS,BL,SW	No	PP
TYPE A	C5AS4VG	M12	4xAWG 22	green	WS,BL,OR,GE	No	PE
TYPE B	C5DS4VG	M12	4xAWG 22	green	WS,BL,OR,GE	No	PE
TYPE C	C5DD4UG	M12/RJ45	4xAWG 22	green	WS,BL,OR,GE	No	PE
EtherCat							
PUR halogen-free	UIE	M8	4x0.15 mm ²	green	BL,OR,WSBL,WSOR	No	PP
PROFIBUS DP							
PUR halogen-free	D	M12	2x0.24 mm ²	violet	RT, GN	No	TPE
PVC massive cable	E	M12	2x0.24 mm ²	violet	RT, GN	No	PVC
PROFIBUS PA							
PVC	M	M12	2x1.0 mm ²	black	RT, GN	No	PE
PVC	M	M12	2x1.0 mm ²	blue	RT, GN	No	PE
CANDeviceNet™							
PUR halogen-free	A	M12	2x0.22 mm ² + 2x0.34 mm ²	black	WS,BL (0.22 mm ²), RT,SW (0.34 mm ²)	No	TPE
PVC	B	M12	2x0.22 mm ² + 2x0.34 mm ²	black	WS,BL (0.22mm ²), RT,SW (0.34mm ²)	No	PVC
Note Additional technical data available upon request							

	Outer cladding	Suitable for dragline cable carriers	Bending radius in cable \varnothing		Temperature range in °C		External- \varnothing in mm	Halogen-free	UL
			Rigid	Moving	Rigid	Moving			
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx. 4.5	No	Yes
	PVC	No	5x	10x	-30 / +80	-5 / +80	approx. 4.8	No	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.1	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.4	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.1	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.4	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx. 4.8	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx. 5.1	Yes	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx. 4.9	No	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx. 5.3	No	Yes
	PVC	nein	5x	10x	-30 / +80	-5 / +80	approx. 5.7	No	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.3	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.7	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.0	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.9	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.3	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 4.7	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.0	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 4.9	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +120	-30 / +120	approx. 5.1	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.0	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.4	Yes	Yes
	PUR	Yes	5x	10x	-40 / +80	-25 / +80	approx. 5.7	Yes	Yes
	PUR	Yes	5x	12x	-40 / +80	-25 / +80	approx. 6.3	Yes	Yes
	PUR	Yes	5x	12x	-40 / +90	-30 / +90	approx. 5.1	Yes	Yes
	PVC	No	3.5x	7.5x	-40 / +75	-20 / +60	approx. 6.5	No	Yes
	PVC	No	3.5x	7.5x	-40 / +70	-20 / +60	approx. 6.5	No	Yes
	PUR	Yes	5x	7.5x	-40 / +70	-20 / +60	approx. 6.5	Yes	Yes
	PUR	Yes	4x	7.5x	-40 / +80	-	approx. 4.8	Yes	Yes
	PUR	Yes	7.5x	15x	-40 / +70	-20 / +60	approx. 7.8	Yes	No
	PVC	No	9x	18x	-20 / +70	-5 / +60	approx. 7.8	No	No
	PVC	No	8x	8x	-30 / +80	-5 / +60	approx. 8.0	No	No
	PVC	No	8x	8x	-30 / +80	-5 / +60	approx. 8.0	No	No
	PUR	Yes	5x	10x	-40 / +80	-10 / +80	approx. 7.0	Yes	Yes
	PVC	No	5x	10x	-40 / +80	-10 / +80	approx. 7.2	No	Yes

Drilling templates

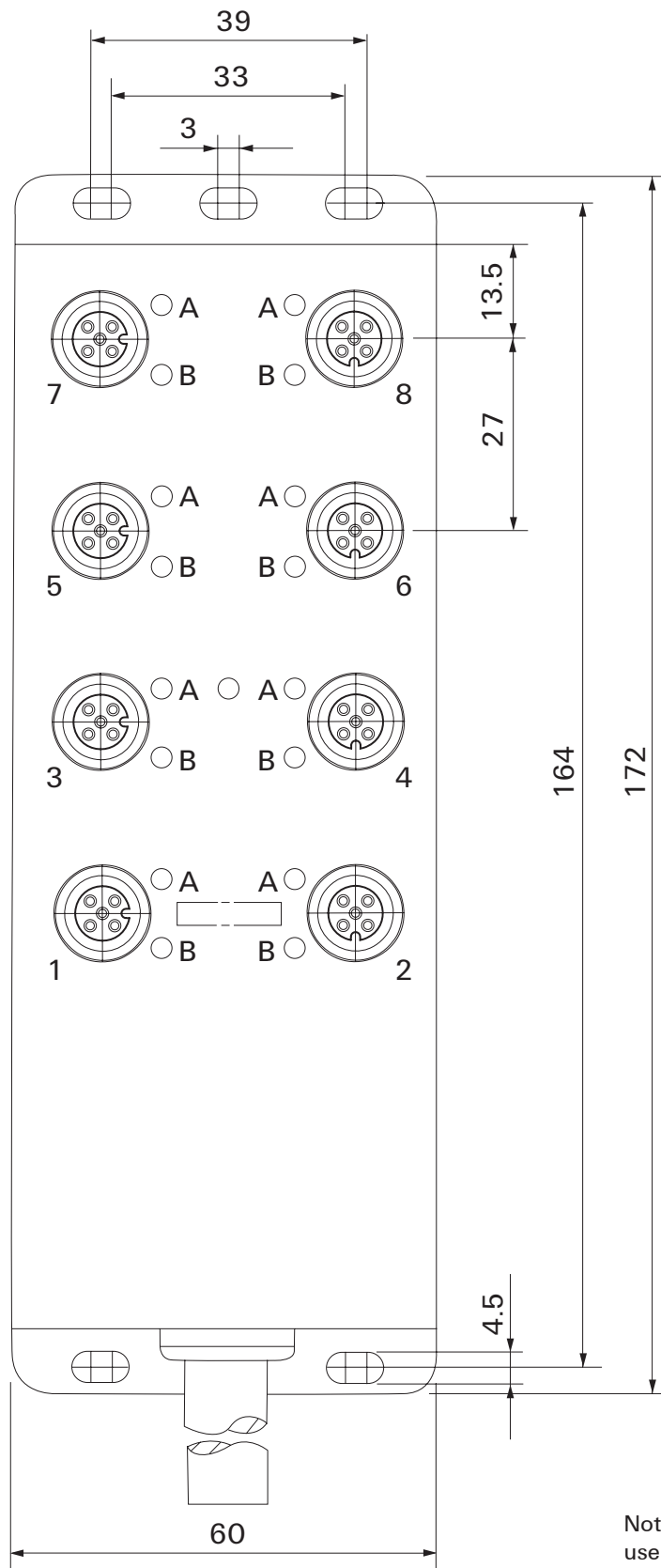
**SAI M12 and M12 Push-Pull:
hood / M23 / M16 /
fixed cable / IDC / A**



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W

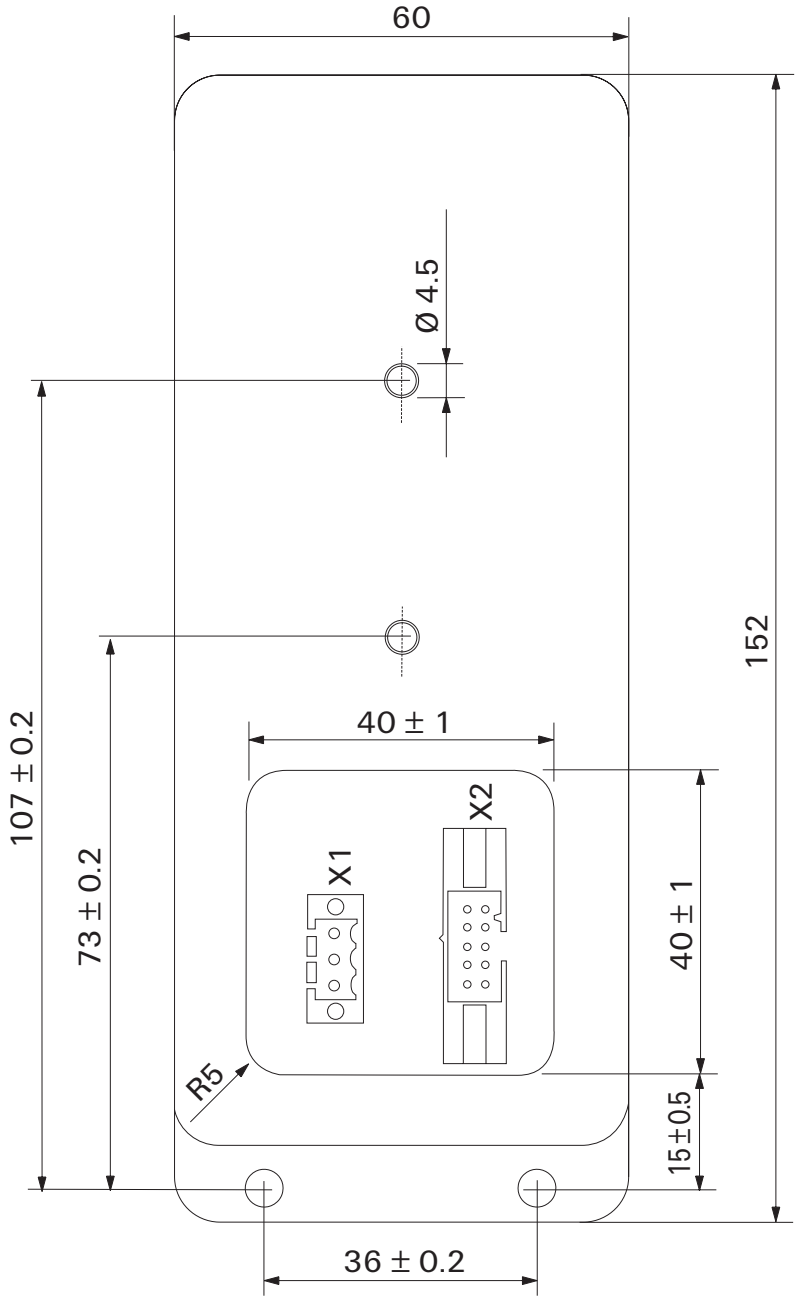
SAI stainless steel



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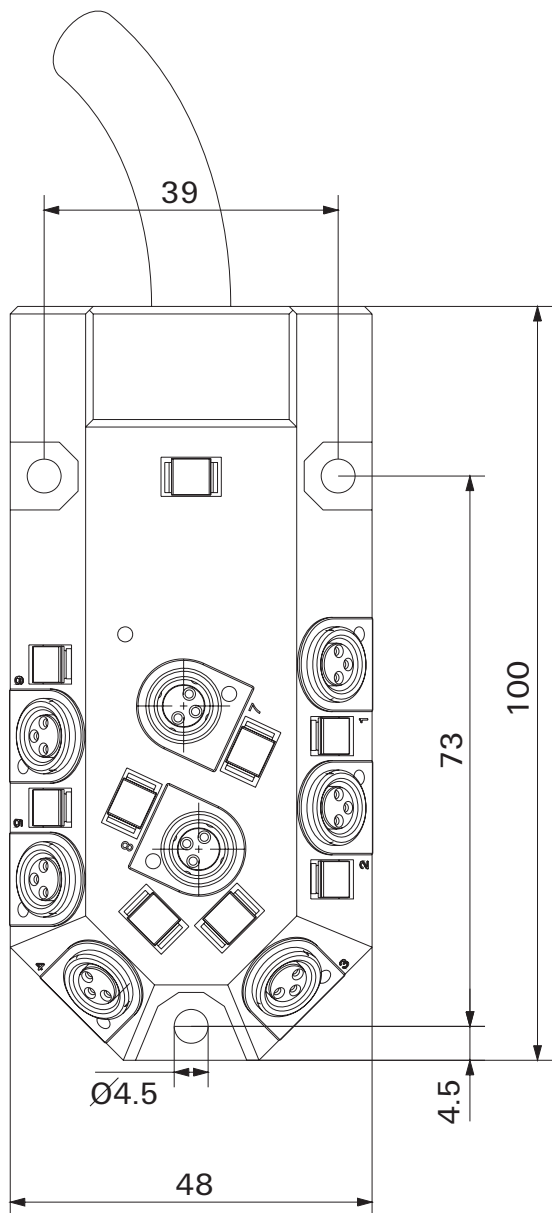
Drilling templates

SAI wall bushing



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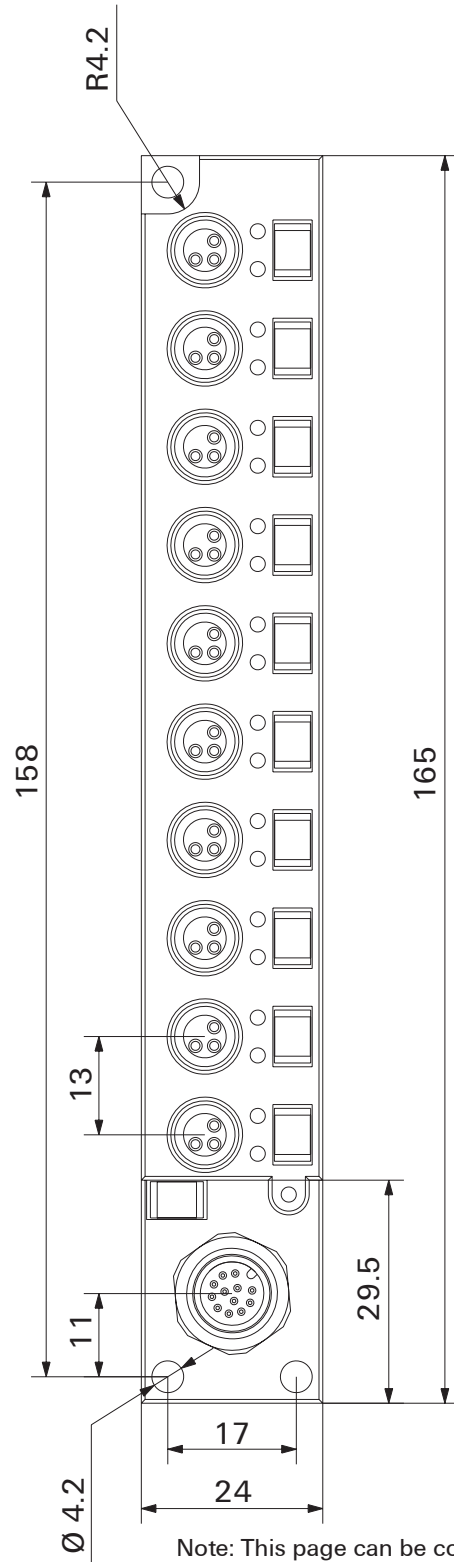
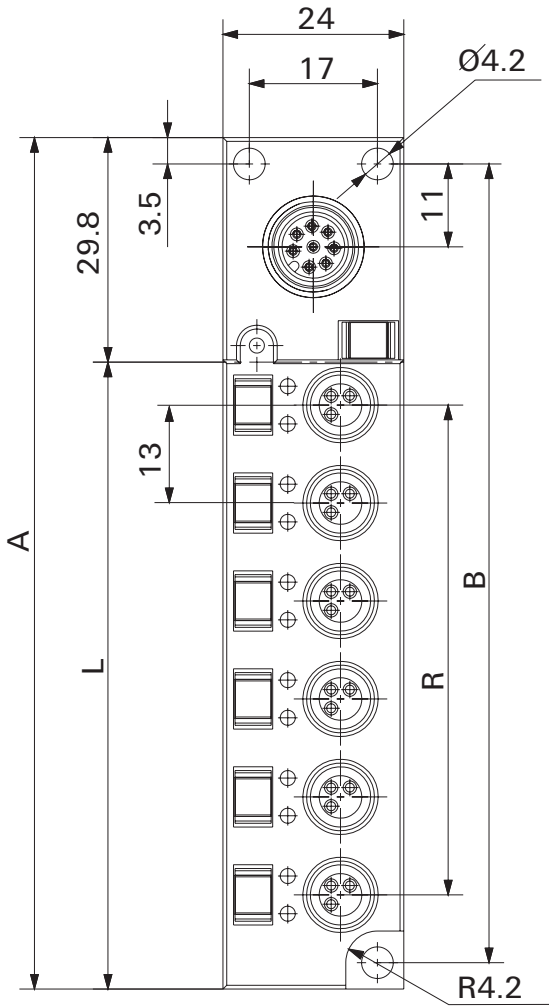
SAI M8 standard



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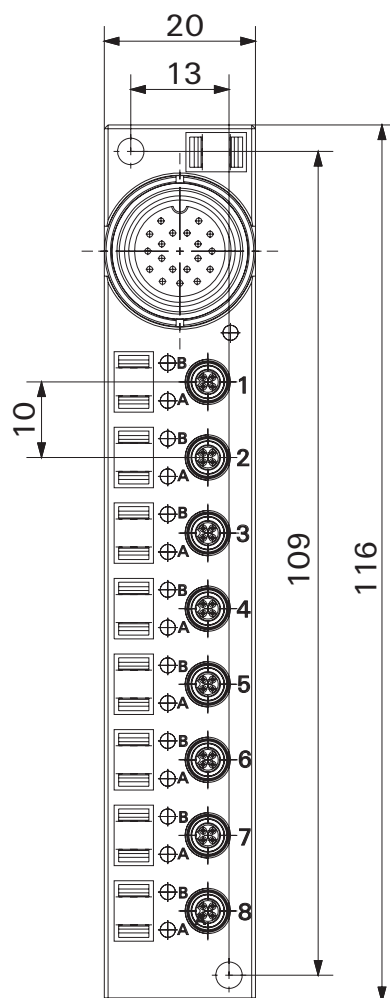
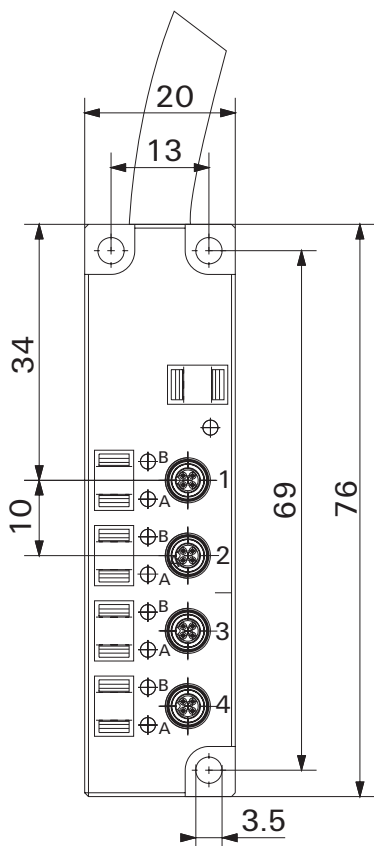


SAI M8 line



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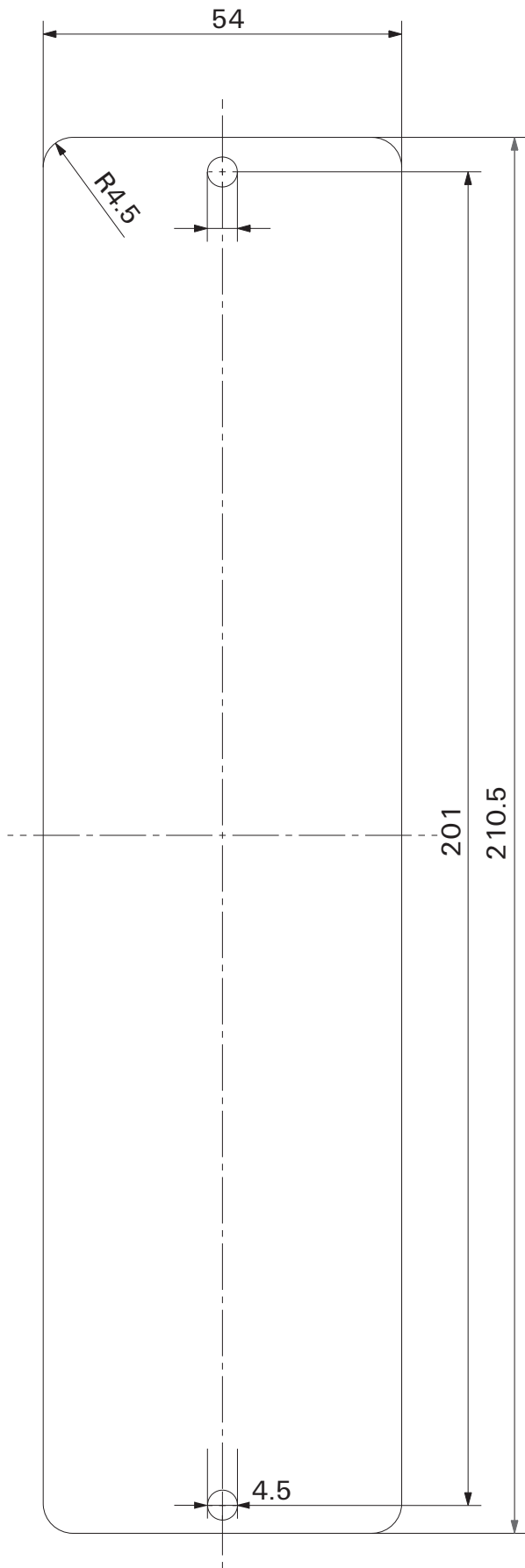
SAI M5



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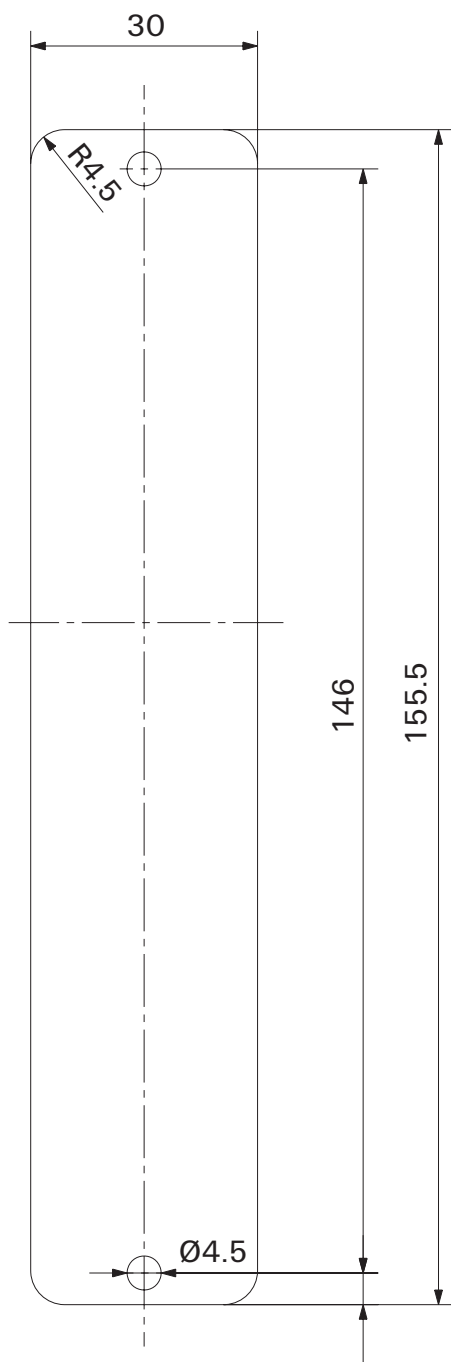
SAI Active Universal



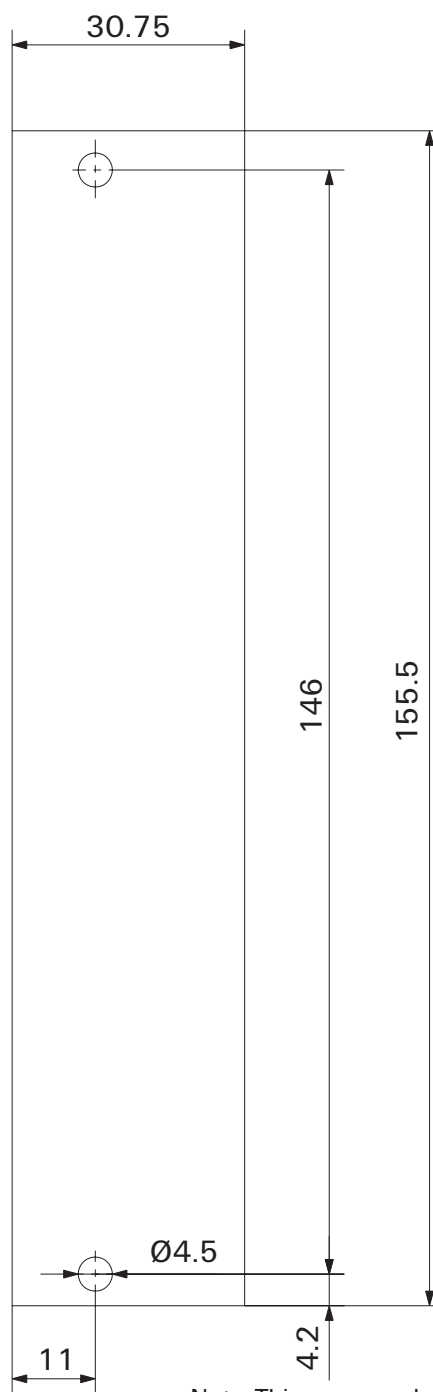
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**SAI Active Universal Pro:
Subbus modules with digital outputs**

Plan view



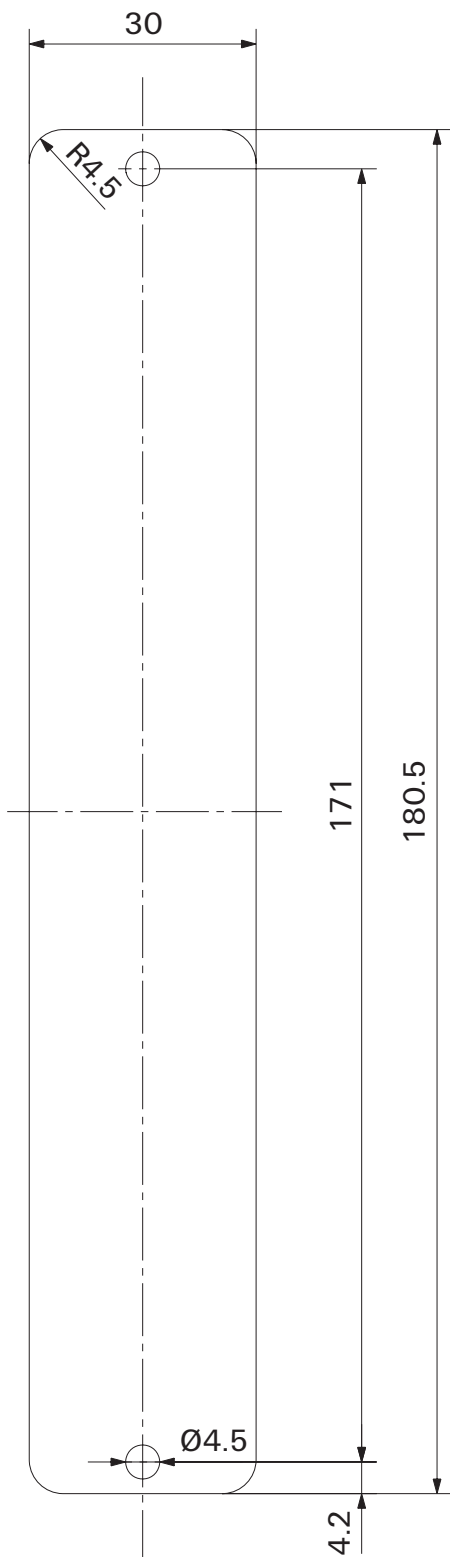
Side view



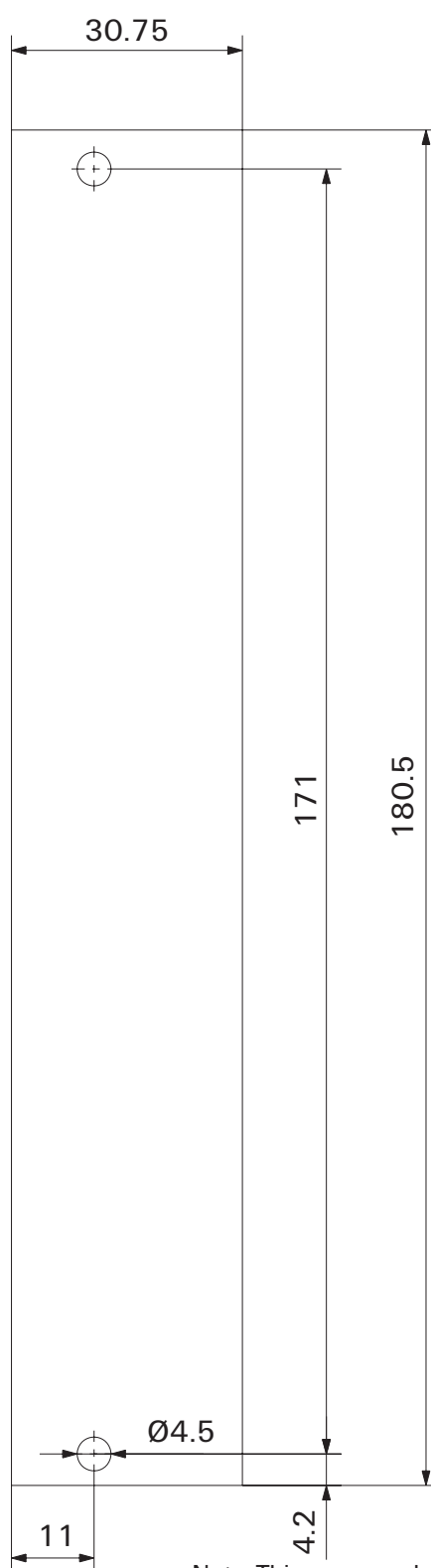
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**SAI Active Universal Pro:
Sub-bus modules without digital outputs**

Plan view



Side view



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W

Chemical resistance of nickel

The statements on the resistance of nickel to chemicals only apply when the coating is undamaged and is not subject to any mechanical loads. These statements are based on a review of the literature available and it should be noted that pure nickel is not considered in the literature – only alloyed nickel steels.

The statements on page W.15 are based on research, and once again please note that pure nickel has not been included in the testing. The findings in the research are based on undamaged alloyed nickel steels that have not been subject to any mechanical loads.

The six materials in question are:

Chlorobenzene	1
Chloroform	1
Chromic acid hydride	1
Acetic acid	1
Hydrofluoric acid	2
Concentrated hydrochloric acid	2

The findings for the two materials above marked with a "2" could have a critical impact on applications. The findings for the four materials marked with a "1" should be taken into account but would not be considered critical for applications.

A further advantage of nickel is its thermal stability. The resistance does not change up to a temperature of 120 °C.

Pure nickel:

Corrosion properties are determined by the resistance of the passive layer.

Good resistance in:

- water containing oxygen
- flowing seawater
- alkalis (very good resistance) even at high temperatures and high concentrations
- neutral and alkaline salt solutions (carbonates, phosphates, sulphates, chlorides and nitrates) even at high concentrations and temperatures

Known problems:

- corrosion attack in heavily oxidising acids and solutions containing chlorides
- in inorganic and organic acids only resistant in diluted solutions and at low temperatures
- coating is not toxic (formation of deposits by micro-organisms can lead to destruction of the passive coating)

Chemical resistance of Pocan[®] (PBT)

Pocan[®] offers good resistance to chemicals. Organic solvents, such as aliphatic hydrocarbons, alcohols, ether, long-chain ester as well as fats, oils and perchlorinated hydrocarbons do not corrode Pocan[®].

This is also true for water and aqueous solutions, neutral and acid salts, as well as diluted acids.

On the other hand, it is susceptible to alkalis, oxidising acids, ketones and phenols.

Susceptibility to universal alcohols, aromatics and ketones increases as the ambient temperature rises above 60 °C.

In the presence of water and aqueous solutions, hydrolytic degradation at higher temperatures increasingly leads to a decline in stability.

Substances like motor and transformer oils, petrol and brake fluids do not corrode Pocan[®], even at higher temperatures.

Medium	23 °C	60 °C
Acetic acid 10%	±	±
Acetone	+	-
Ammonia 10%	+	-
Ammonia, concentrated	±	-
Benzene	+	-
Brake fluid	+	+
Butane	+	+
Butanol	+	±
Butyl acetate	+	+
Calcium chloride 10%	+	+
Carbon disulphide	+	±
Carbon tetrachloride	+	±
Chlorobenzene	-	-
Chloroform	-	-
Chromic acid hydride 10%	+	+
Citric acid 10%	+	±
Cresol	-	-
Curd soap	+	+
Dibutyl phthalate	+	±
Diesel oil	+	+
Diethyl ether	+	±
Dioxan	+	-
Ethanol	+	+
Ethyl acetate	±	-
Ethyl dichloride	-	-
Ethylene glycol	+	±
Formic acid 10%	+	±
Freon 11	+	+
Frigen 113	+	+
Glacial acetic acid 10%	-	-
Glycerine	+	+
Heptane	+	+
Hexane	+	+
Hydraulic oil	+	+
Hydrochloric acid 10%	+	-
Hydrochloric acid, concentrated	-	-
Hydrofluoric acid 10%	+	+
Hydrogen peroxide 20%	+	±
Isopropyl alcohol	+	±
Kerosene	+	+

Medium	23 °C	60 °C
Linseed oil	+	+
Lubricating greases	+	+
Methanol	+	±
Methyl ethyl ketone	+	±
Methylene chloride	-	-
Mineral oils	+	+
Motor oils	+	+
Nitric acid 10%	+	±
Nitric acid, concentrated	-	-
Octane	+	+
Olive oil	+	+
Paraffin oil	+	+
Perchloroethylene	±	-
Petrol, normal and lead-free	+	+
Petrol, super	+	+
Petrol/methanol 85/15	+	+
Petroleum	+	+
Phenol 10%	-	-
Phosphoric acid 20%	+	±
Potassium chloride 10%	+	+
Potassium dichromate 10%	+	+
Potassium hydroxide 10%	-	-
Potassium permanganate 10%	+	±
Soap suds 10%	+	±
Sodium bisulphite 10%	+	+
Sodium carbonate 10%	+	+
Sodium chloride 10%	+	+
Sodium hydroxide 10%	-	-
Sulphuric acid 10%	+	±
Sulphuric acid, concentrated	-	-
Tetrahydrofuran	-	-
Toluene	±	-
Transformer oil	+	+
Trichlorethene/chloroform 1/1	±	-
Turpentine oil	+	+
Vegetable oils	+	+
Washing liquid	+	+
Washing powder, synthetic	+	+
Water	+	+
Xylol	±	-

The above values are for guidance only. A definite statement can only be made when based on the respective case in question.

+ = resistant
- = not resistant
± = partly resistant

Index

Index	Index Type	X.2
	Index Order No.	X.10
	Addresses worldwide	X.20



Table with columns: Type, Order No., Page. Includes sections for 1, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

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Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SAI-4/6/8-MH BL3.5 SV	1724750050	H.24	SAI-4-M 5P M12 ECO UT	1892101000	H.17	SAI-6-M 4P M12 UT	1705931000	H.7	SAI-8-M 5P M12 ECO UT	1892081000	H.17
SAI-4/6/8-MH BLZF3.5	1752080000	H.7	SAI-4-M 5P M12 Ex ia	1896050000	H.57	SAI-6-M 4P M12 UT	1705931000	H.40	SAI-8-M 5P M12 Ex ia	1896090000	H.57
SAI-4/6/8-MH BLZF3.5	1752080000	H.7	SAI-4-M 5P M12 M1:1 UT	1806011000	H.34	SAI-6-M 5P M12	1701240000	H.6	SAI-8-M 5P M12 NPN	1811060000	H.7
SAI-4/6/8-MH BLZF3.5	1752080000	H.24	SAI-4-M 5P M12 NPN ECO	1892100005	H.17	SAI-6-M 5P M12	1701240000	H.7	SAI-8-M 5P M12 NPN ECO	1892080005	H.17
SAI-4/6/8-MH BLZF3.5	1752080000	H.24	SAI-4-M 5P M12 OL	1800000000	H.7	SAI-6-M 5P M12 ECO	1892090000	H.17	SAI-8-M 5P M12 OL	1740190000	H.7
SAI-4/6/8-MH BLZF3.5 SV	1752080050	H.7	SAI-4-M 5P M12 OL UT	1800001000	H.7	SAI-6-M 5P M12 ECO UT	1892091000	H.17	SAI-8-M 5P M12 OL UT	1740191000	H.7
SAI-4/6/8-MH BLZF3.5 SV	1752080050	H.7	SAI-4-M 5P M12 UT	1701231000	H.7	SAI-6-M 5P M12 Ex ia	1896070000	H.57	SAI-8-M 5P M12 OL2	1816610000	H.7
SAI-4/6/8-MH BLZF3.5 SV	1752080050	H.17	SAI-4-M 5P M12 UT	1701231000	H.40	SAI-6-M 5P M12 UT	1701241000	H.7	SAI-8-M 5P M12 UT	1701251000	H.7
SAI-4/6/8-MH BLZF3.5 SV	1752080050	H.24	SAI-4-M 5P M12 ZF	1854000000	H.7	SAI-6-M 5P M12 UT	1701241000	H.40	SAI-8-M 5P M12 UT	1701251000	H.40
SAI-4/6/8-MH BLZF3.5 SV	1752080050	H.24	SAI-4-M 8P M12	1807640000	H.35	SAI-6-MH-4P M12	1705932000	H.29	SAI-8-M 5P M12 ZF III	1767880000	H.7
SAI-4/6/8-MH LEER	1783460000	H.7	SAI-4-M 8P M12 UT	1807641000	H.35	SAI-6-MH-4P M12	1705932000	H.32	SAI-8-MH-5P M12	1795900000	H.47
SAI-4/6/8-MH LEER	1783460000	H.41	SAI-4-M23 4P M8	1784660000	F.39	SAI-6-MH-5P M12	1701242000	H.29	SAI-8-MH-6P M12	1831020000	H.13
SAI-4/6/8-MHF 4P PUR 4M	1791450400	H.40	SAI-4-M23 4P M8	1784660000	H.47	SAI-6-MH-5P M12	1701242000	H.32	SAI-8-M23 4P M8	1784650000	F.39
SAI-4/6/8-MHF 4P PUR 6M	1791450600	H.40	SAI-4-MF 5P PUR 10M	1804580000	H.40	SAI-6-MH-4P M12	1705933000	H.29	SAI-8-M23 4P M8	1784650000	H.47
SAI-4/6/8-MHF 4P PUR 9M	1791450900	H.40	SAI-4-MF 5P PUR 5M	1804600000	H.40	SAI-6-MH-4P M12	1705933000	H.33	SAI-8-M-4P M12 DIP	1059430000	H.14
SAI-4/6/8-MHF 4P PUR14M	1791451400	H.40	SAI-4-MH-4P M12	1705922000	H.29	SAI-6-MH-4P M12	1701243000	H.29	SAI-8-M-4P PUR 10M M12	1791900000	H.40
SAI-4/6/8-MHF 4P PUR20M	1791452000	H.40	SAI-4-MH-4P M12	1705922000	H.32	SAI-6-MH-5P M12	1701243000	H.33	SAI-8-MF 4P PUR 5M M12	1799960000	H.40
SAI-4/6/8-MHF 4P PUR28M	1791452800	H.40	SAI-4-MH-5P M12	1701232000	H.29	SAI-6-MH-5P M12	2085620000	G.24	SAI-8-MF 5P PUR 10m	9457430000	H.40
SAI-4/6/8-MHF 4P PUR34M	1791453400	H.40	SAI-4-MH-5P M12	1701232000	H.32	SAI-6-S 3P M8 L	1828730000	H.6	SAI-8-MF 5P PUR 5M	1804590000	H.40
SAI-4/6/8-MHF 5P PUR 10M	1791461000	H.40	SAI-4-MH-4P M12	1705923000	H.29	SAI-6-S 3P M8 L	1828730000	H.48	SAI-8-MH-4P M12	1705942000	H.29
SAI-4/6/8-MHF 5P PUR 4M	1791460400	H.40	SAI-4-MH-4P M12	1705923000	H.33	SAI-6-S 3P M8 L OL	1932380000	H.48	SAI-8-MH-4P M12	1705942000	H.32
SAI-4/6/8-MHF 5P PUR 6M	1791460600	H.40	SAI-4-MH-5P M12	1701233000	H.29	SAI-6-S 3P M8 L SL	1057720000	H.6	SAI-8-MH-5P M12	1701252000	H.29
SAI-4/6/8-MHF 5P PUR 9M	1791460900	H.40	SAI-4-MH-5P M12	1701233000	H.33	SAI-6-S 3P M8 L SL	1057720000	H.50	SAI-8-MH-5P M12	1701252000	H.32
SAI-4/6/8-MHF 5P PUR14M	1791461400	H.40	SAI-4-MM 5P M12	1783500000	H.6	SAI-6-S 4P M12	9456010000	H.6	SAI-8-MH-5P M12 ZF III	1782760000	H.29
SAI-4/6/8-MHF 5P PUR16M	1791461600	H.40	SAI-4-MM 5P M12	1783500000	H.29	SAI-6-S 4P M12	9456010000	H.12	SAI-8-MH-5P M12 ZF III	1782760000	H.32
SAI-4/6/8-MHF 5P PUR20M	1791462000	H.40	SAI-4-MM 5P M12	1783500000	H.31	SAI-6-S 5P M12	9456010001	H.6	SAI-8-MH-4P M12	1705943000	H.29
SAI-4/6/8-MHF 5P PUR28M	1791462800	H.40	SAI-4-MM5 4P M12	1783540000	H.6	SAI-6-S 5P M12	9456010001	H.12	SAI-8-MH-4P M12	1705943000	H.33
SAI-4/6/8-MHF 5P PUR34M	1791463400	H.40	SAI-4-MM5 4P M12	1783540000	H.29	SAI-6-S12 4P M12 L	1265940000	H.6	SAI-8-MH-5P M12	1701253000	H.29
SAI-4/6/8-MHF 5P PUR40M	1791464000	H.40	SAI-4-MM5 4P M12	1783540000	H.31	SAI-6-S12 4P M12 L	1265940000	H.11	SAI-8-MH-5P M12	1701253000	H.33
SAI-4/6/8-MHF 5P PUR50M	1791465000	H.40	SAI-4-MM5 5P M12	1783520000	H.6	SAI-8-B 4P M12 F10	1812170000	H.39	SAI-8-MM 5P M12	1783490000	H.6
SAI-4/6/8-MHF 5P PUR55M	1791465500	H.40	SAI-4-MM5 5P M12	1783520000	H.29	SAI-8-B 5P M12 SL	1847560000	H.37	SAI-8-MM 5P M12	1783490000	H.29
SAI-4F 3P IDC PUR 10M	1766730000	H.25	SAI-4-MM5 5P M12	1783520000	H.31	SAI-8-F 3P IDC PUR 10M	1766770000	H.25	SAI-8-MM 5P M12	1783490000	H.31
SAI-4F 3P IDC PUR 5M	1766720000	H.25	SAI-4-MM5 5P M12 1:1	1897680000	H.34	SAI-8-F 3P IDC PUR 5M	1766770000	H.25	SAI-8-MM 5P M12 UT	1783491000	H.31
SAI-4F 3P M5 L10M	1845820000	H.54	SAI-4-M-MVV-M12 1:1	2009620000	G.23	SAI-8-F 3P M5 L10M	1845830000	H.54	SAI-8-MH-5P M12 ZF	1782740000	H.29
SAI-4F 3P M5 L5M	1851740000	H.54	SAI-4-M-MVV-M12 S-COD	1542580000	G.22	SAI-8-F 3P M5 L5M	1851760000	H.54	SAI-8-MH-5P M12 ZF	1782740000	H.31
SAI-4F 3P M8 L 10M	1828710000	H.6	SAI-4-M-SVV-M12	1431490000	G.20	SAI-8-F 3P M8 L 10M	1828670000	H.6	SAI-8-MMS 4P M12	1783530000	H.6
SAI-4F 3P M8 L 10M	1828710000	H.51	SAI-4-S 3P M8 L	1828740000	H.6	SAI-8-F 3P M8 L 10M	1828670000	H.51	SAI-8-MMS 4P M12	1783530000	H.29
SAI-4F 3P M8 L 5M	1828720000	H.6	SAI-4-S 3P M8 L	1828740000	H.48	SAI-8-F 3P M8 L 5M	1828680000	H.6	SAI-8-MMS 4P M12	1783530000	H.31
SAI-4F 3P M8 L 5M	1828720000	H.51	SAI-4-S 3P M8 L OL	1051760000	H.48	SAI-8-F 3P M8 L 5M	1828680000	H.51	SAI-8-MMS 5P M12	1783510000	H.6
SAI-4F 3P M8 PUR 10M	1784630000	H.46	SAI-4-S 4P FC	1847960000	F.37	SAI-8-F 3P M8 PUR 10M	1784610000	H.46	SAI-8-MMS 5P M12	1783510000	H.29
SAI-4F 3P M8 PUR 5M	1784640000	H.46	SAI-4-S 4P FC	1847960000	H.19	SAI-8-F 3P M8 PUR 5M	1784620000	H.46	SAI-8-MMS 5P M12	1783510000	H.31
SAI-4F 4P IDC PUR 10M	1766670000	H.25	SAI-4-S 4P M12	9456000000	H.6	SAI-8-F 4P IDC PUR 10M	1766710000	H.25	SAI-8-S 3P M5	1845850000	H.54
SAI-4F 4P IDC PUR 5M	1766660000	H.25	SAI-4-S 4P M12	9456000000	H.12	SAI-8-F 4P IDC PUR 5M	1766700000	H.25	SAI-8-S 4P FC	1847920000	F.37
SAI-4F 4P M12 L 10M	1070660000	H.6	SAI-4-S 4P M5	1845840000	H.54	SAI-8-F 4P IDC PUR 5M	1766700000	H.25	SAI-8-S 4P FC	1847920000	H.19
SAI-4F 4P M12 L 10M	1070660000	H.9	SAI-4-S 4P M5	1845840000	H.54	SAI-8-F 4P M5 L10M	1845810000	H.54	SAI-8-S 4P M12	9456020000	H.6
SAI-4F 4P M12 L 5M	1070650000	H.6	SAI-4-S 4P CNOMO	1861540000	H.21	SAI-8-F 4P M5 L5M	1851750000	H.54	SAI-8-S 4P M12	9456020000	H.6
SAI-4F 4P M12 L 5M	1070650000	H.9	SAI-4-S 5P FC	1847970000	F.37	SAI-8-F 4P M8 L 10M	1828610000	H.6	SAI-8-S 4P M12	9456020000	H.12
SAI-4F 4P M5 L10M	1845800000	H.54	SAI-4-S 5P FC	1847970000	H.19	SAI-8-F 4P M8 L 10M	1828610000	H.51	SAI-8-S 5P CNOMO	1861580000	H.21
SAI-4F 4P M5 L5M	1851770000	H.54	SAI-4-S 5P M12	9456000001	H.6	SAI-8-F 4P M8 L 5M	1828620000	H.6	SAI-8-S 5P FC	1848040000	F.37
SAI-4F 4P M8 L 10M	1849690000	H.6	SAI-4-S 5P M12	9456000001	H.12	SAI-8-F 4P M8 L 5M	1828620000	H.51	SAI-8-S 5P FC	1848040000	H.19
SAI-4F 4P M8 L 10M	1849690000	H.51	SAI-4-S12 M8 L 1:1	1449400000	H.49	SAI-8-F 4P M8 PUR 10M	1784570000	H.46	SAI-8-S 5P M12	1796470000	H.6
SAI-4F 4P M8 L 5M	1849680000	H.6	SAI-4-S16 3P M5	1848690000	H.55	SAI-8-F 4P M8 PUR 5M	1784580000	H.46	SAI-8-S 5P M12	1796470000	H.12
SAI-4F 4P M8 L 5M	1849680000	H.51	SAI-4-S16 4P M5	1845870000	H.55	SAI-8-F 4P PUR 10M	9456760000	H.6	SAI-8-S12 3P M8 L	1871680000	H.6
SAI-4F 4P M8 L 5M	1849680000	H.51	SAI-4-S8 4P M12 L	1267330000	H.6	SAI-8-F 4P PUR 10M	9456760000	H.8	SAI-8-S12 3P M8 L	1871680000	H.48
SAI-4F 4P M8 PUR 10M	1784590000	H.46	SAI-4-S8 4P M12 L	1267330000	H.11	SAI-8-F 4P PUR 15M	9456770000	H.6	SAI-8-S16/19P 4P M5	1845860000	H.55
SAI-4F 4P M8 PUR 5M	1784600000	H.46	SAI-4-SH 4P FC	1859110000	F.38	SAI-8-F 4P PUR 15M	9456770000	H.8	SAI-8-SH 4P FC	1859120000	F.38
SAI-4F 4P PUR 10M	9456200000	H.6	SAI-4-SH 4P FC	1859110000	H.20	SAI-8-F 4P PUR 20M	9456790000	H.8	SAI-8-SH 4P FC	1859120000	H.20
SAI-4F 4P PUR 10M	9456200000	H.6	SAI-4-SH 5P FC	1859130000	F.38	SAI-8-F 4P PUR 20M	9456790000	H.8	SAI-8-SH 5P FC	1859140000	F.38
SAI-4F 4P PUR 15M	9456210000	H.6	SAI-4-SH 5P FC	1859130000	H.20	SAI-8-F 4P PUR 3M	9456740000	H.8	SAI-8-SH 5P FC	1859140000	H.20
SAI-4F 4P PUR 15M	9456210000	H.6	SAI-4-SV-GM-RM-M12	2495280000	G.21	SAI-8-F 4P PUR 5M	9456750000	H.6	SAI-8-SH 5P FC	1859140000	H.20
SAI-4F 4P PUR 20M	9456230000	H.6	SAI-6-F 3P IDC PUR 10M	1766750000	H.25	SAI-8-F 4P PUR 5M	9456750000	H.8	SAI-ASI T FF small	1026090000	J.61
SAI-4F 4P PUR 20M	9456230000	H.6	SAI-6-F 3P IDC PUR 5M	1766740000	H.25	SAI-8-F 4P PUR 5M	9456750000	H.8	SAI-ASI T FFR	1924980000	J.61
SAI-4F 4P PUR 3M	9456180000	H.8	SAI-6-F 3P M8 L 10M	1828690000	H.6	SAI-8-F 5P 15M 0.5/1.0U	9457600000	H.8	SAI-ASI T FR	1925010000	J.60
SAI-4F 4P PUR 5M	9456190000	H.6	SAI-6-F 3P M8 L 10M	1828690000	H.51	SAI-8-F 5P 20M 0.5/1.0U	1784500000	H.8	SAI-AU ET SET M12 A COD	1235340000	L.7
SAI-4F 5P CNOMO 10M	1861560000	H.21	SAI-6-F 3P M8 L 5M	1828700000	H.6	SAI-8-F 5P 2M 0.5/1.0U	7915030000	H.8	SAI-AU ET SET M12 A COD	1235340000	L.13
SAI-4F 5P CNOMO 5M	1861570000	H.21	SAI-6-F 3P M8 L 5M	1828700000	H.51	SAI-8-F 5P 5M 0.5/1.0U	9457590000	H.8	SAIB 5/9-VA	1920710000	C.15
SAI-4F 5P M12 L 10M	1070640000	H.6	SAI-6-F 4P IDC PUR 10M	1766690000	H.25	SAI-8-F 5P CNOMO 10M	1861590000	H.21	SAIB 5/9-VA	1920710000	H.27
SAI-4F 5P M12 L 10M	1070640000	H.6	SAI-6-F 4P IDC PUR 5M	1766680000	H.25	SAI-8-F 5P CNOMO 5M	1861550000	H.21	SAIB 5/9-VA	1920710000	J.38
SAI-4F 5P M12 L 5M	1070630000	H.9	SAI-6-F 4P M12 L 10M	1265930000	H.10	SAI-8-F 5P M12 5M VA	1865310000	H.26	SAIB 5/9-VA-B-COD	1920730000	C.15
SAI-4F 5P M12 L 5M	1070630000	H.6	SAI-6-F 4P M12 L 10M	1265930000	H.10	SAI-8-F 5P NPN-PNP 5M	1814990000	H.36	SAIB 5/9-VA-B-COD	1920730000	H.27
SAI-4F 5P PUR 10M	9456340000	H.9	SAI-6-F 4P M12 L 5M	1265920000	H.6	SAI-8-F 5P PUR 10M	9456900000	H.8	SAIB 5/9-VA-B-COD	1920730000	J.10
SAI-4F 5P PUR 10M	9456340000	H.6	SAI-6-F 4P M12 L 5M	1265920000	H.10	SAI-8-F 5P PUR 10M	9456900000	H.8	SAIB 12/9-(TL)	1924960000	C.5
SAI-4F 5P PUR 15M	9456350000	H.8	SAI-6-F 4P M8 L 10M	1849670000	H.6	SAI-8-F 5P PUR 15M	9456910000	H.8	SAIB 12/9-(TL)		

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SAIB-4-IDC-M8 small	1784050001	C.6	SAIBW-4/7	9457700000	C.7	SAID-M8B-4-SMT	2421840000	D.4	SAIE-M12B-4S-H5.5TL	2423210000	D.32
SAIB-4-IDC-M8 small	1784050001	C.31	SAIBW-4/7(KV)	1935610000	C.9	SAID-M8B-4-SMT	2421840000	D.17	SAIE-M12B-4S-H6.75TL	2421880000	D.26
SAIB-5/11-1.5	1353750000	G.12	SAIBW-4/8S-M12 4P D-ZF	1139330000	C.5	SAID-M8B-4S-SMT	2421900000	D.4	SAIE-M12B-4S-TL-HW-PG9	1467770000	C.47
SAIB-5/11-7/8	1292010000	E.7	SAIBW-4/8S-M12 4P D-ZF	1139330000	C.19	SAID-M8B-4S-SMT	2421900000	D.17	SAIE-M12B-4-T0-2U-M16	1467960000	G.19
SAIB-5/6S M12 5P A-COD	1191020000	C.13	SAIBW-4/9	1807240000	C.5	SAID-M8B-4S-THR	2423940000	D.13	SAIE-M12B-4-T0-5U-M16	1460330000	G.19
SAIB-5/6S M12 5P A-COD	1191020000	C.5	SAIBW-4/9	1807240000	C.7	SAID-M8B-4-THR	2423880000	D.13	SAIE-M12B-5-0-2U-P9 75	1353800000	G.18
SAIB-5/6S M12 5P A-COD	1191020000	J.37	SAIBW-4/9-7/8"	1812470000	E.6	SAID-M8B-5-SMT	2421960000	D.4	SAIE-M12B-5-0-5U-FP-M16	1856110000	C.39
SAIB-5/7	9457250000	C.5	SAIBW-4/9-7/8"	1812470000	J.82	SAID-M8B-5-SMT	2421960000	D.17	SAIE-M12B-5-0-5U-M16	1836910000	C.39
SAIB-5/7	9457250000	C.8	SAIBW-4-IDC M12	1812890000	C.30	SAID-M8B-5S-SMT	2422020000	D.4	SAIE-M12B-5-0-5U-PG9	1814890000	C.40
SAIB-5/7(KV)	1921070000	C.9	SAIBW-5/11-1.5	1467690000	G.12	SAID-M8B-5S-SMT	2422020000	D.17	SAIE-M12B-5-13/14SMT	2423050000	D.36
SAIB-5/7-ZF	1924970000	C.5	SAIBW-5/11-7/8	1292030000	E.7	SAID-M8B-5S-THR	2424060000	D.13	SAIE-M12B-5-9SMT	2422330000	D.36
SAIB-5/7-ZF	1924970000	C.11	SAIBW-5/7	9457260000	C.5	SAID-M8B-5-THR	2424000000	D.13	SAIE-M12B-5-F10TL	2422520000	D.28
SAIB-5/9	1807250000	C.5	SAIBW-5/7	9457260000	C.8	SAID-M8B-8-SMT	2422080000	D.4	SAIE-M12B-5-F5.5TL	2423000000	D.27
SAIB-5/9	1807250000	C.8	SAIBW-5/7(KV)	1926630000	C.9	SAID-M8B-8-SMT	2422080000	D.17	SAIE-M12B-5-H10TL	2422760000	D.28
SAIB-5/9(KV)	1007090000	C.9	SAIBW-5/8S-M12 5P A-ZF	1275750000	C.5	SAID-M8B-8S-SMT	2422140000	D.4	SAIE-M12B-5-H12TL-M16	2421680000	D.22
SAIB-5/9-7/8	1292000000	E.6	SAIBW-5/9	1807330000	C.5	SAID-M8B-8S-SMT	2422140000	D.17	SAIE-M12B-5-H12TL-PG9	2422010000	D.23
SAIB-5/9-ZF	1044710000	C.11	SAIBW-5/9	1807330000	C.8	SAID-M8B-8S-THR	2424190000	D.13	SAIE-M12B-5-H5.5TL	2423240000	D.27
SAIB-8/9	1836960000	C.5	SAIBW-5/9(KV)	1007070000	C.9	SAID-M8B-8S-THR	2424130000	D.13	SAIE-M12B-5-H5.5TL-M16	2421620000	D.22
SAIB-8/9	1836960000	C.8	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-3-SMT	2421750000	D.4	SAIE-M12B-5-H5.5TL-PG9	2421980000	D.23
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-3-SMT	2421750000	D.17	SAIE-M12B-5S-5U HW	1222270050	C.45
SAIB-8/9	1836960000	C.79	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-3S-SMT	2421810000	D.4	SAIE-M12B-5S-13/14SMT	2423140000	D.37
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-3S-SMT	2421810000	D.17	SAIE-M12B-5S-2U HW	1222270000	C.45
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-3S-THR	2423850000	D.13	SAIE-M12B-5S-9SMT	2422390000	D.37
SAIB-8/9	1836960000	C.79	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-3-THR	2423900000	D.13	SAIE-M12B-5S-F10TL	2422560000	D.33
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-4-SMT	2421870000	D.4	SAIE-M12B-5S-F5.5TL	2423030000	D.32
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-4-SMT	2421870000	D.17	SAIE-M12B-5S-H10TL	2422790000	D.33
SAIB-8/9	1836960000	C.79	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-4S-SMT	2421930000	D.4	SAIE-M12B-5S-H5.5TL	2423270000	D.32
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-4S-SMT	2421930000	D.17	SAIE-M12B-5S-H6.75TL	2421910000	D.26
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-4S-THR	2423970000	D.13	SAIE-M12B-5S-TL-HW-PG9	1467780000	C.47
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-4-THR	2423910000	D.13	SAIE-M12B-5-TL	1312970000	C.46
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-5-SMT	2421990000	D.4	SAIE-M12B-8-0-5U-M16	1861140000	C.39
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-5-SMT	2421990000	D.17	SAIE-M12B-8-0-5U-FP-M16	1861210000	C.39
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-5S-SMT	2422050000	D.4	SAIE-M12B-8-0-5U-PG9	1861270000	C.40
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-5S-SMT	2422050000	D.17	SAIE-M12B-8-13/14SMT	2423080000	D.36
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-5S-THR	2424090000	D.13	SAIE-M12B-8-9/14SMT	2423440000	D.36
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-5-THR	2424030000	D.13	SAIE-M12B-8-F10TL	2421760000	D.28
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-8-SMT	2422110000	D.4	SAIE-M12B-8-H10TL	2421820000	D.28
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-8-SMT	2422110000	D.17	SAIE-M12B-8-H12TL-M16	2421710000	D.22
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-8S-SMT	2422170000	D.4	SAIE-M12B-8-H12TL-PG9	2422070000	D.23
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-8S-SMT	2422170000	D.17	SAIE-M12B-8-H5.5TL-M16	2421640000	D.22
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-8S-THR	2424220000	D.13	SAIE-M12B-8-H5.5TL-PG9	2422040000	D.23
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAID-M8S-8-THR	2424150000	D.13	SAIE-M12B-8S-5U HW	1223650050	C.45
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-0.2U-H	1292390000	E.8	SAIE-M12B-8S-13/14SMT	2423170000	D.37
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-0.2U-M20	1471510000	E.11	SAIE-M12B-8S-2U HW	1223650000	C.45
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-0.2U-PG11	1292370000	E.9	SAIE-M12B-8S-9/14SMT	2423470000	D.37
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-0.2U-PG13.5	1292380000	E.10	SAIE-M12B-8S-F10TL	2421790000	D.33
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8B-4.0-2U-H	1292450000	E.8	SAIE-M12B-8S-H10TL	2421850000	D.33
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8B-4.0-2U-M20	1471520000	E.11	SAIE-M12B-8S-H6.75TL	2421940000	D.26
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8B-4.0-2U-PG11	1292430000	E.10	SAIE-M12B-8S-TL-HW-PG9	1467790000	C.47
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8B-4.0-2U-PG13.5	1292440000	E.9	SAIE-M12B-8-F10TL	2423900000	D.35
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8B-5.0-2U-H	1292520000	E.8	SAIE-M12B-8-F5.5TL	2424020000	D.35
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8B-5.0-2U-PG11	1292500000	E.9	SAIE-M12B-8-H10TL	2422390000	D.34
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8B-5.0-2U-PG13.5	1292510000	E.10	SAIE-M12B-8-H12TL-PG9	2424510000	D.25
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-3.0-2U-H	1292350000	E.8	SAIE-M12B-8-H5.5TL	2424050000	D.34
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-3.0-2U-M20	1418040000	E.11	SAIE-M12B-8-H5.5TL-PG9	2424490000	D.25
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-3.0-2U-PG11	1292330000	E.9	SAIE-M12B-8S-13/14SMT	2423740000	D.38
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-3.0-2U-PG13.5	1292340000	E.10	SAIE-M12B-8S-9/14SMT	2423680000	D.38
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-4.0-2U-H	1292420000	E.8	SAIE-M12B-8S-H6.75TL	2421970000	D.26
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-4.0-2U-M20	1418050000	E.11	SAIE-M12B-8S-13/14SMT	2423770000	D.38
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-4.0-2U-PG11	1292400000	E.9	SAIE-M12B-8S-9/14SMT	2423710000	D.38
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-4.0-2U-PG13.5	1292410000	E.10	SAIE-M12B-4-F10TL	2424140000	D.35
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-5.0-2-PG11	1292470000	E.9	SAIE-M12B-4-F5.5TL	2424200000	D.35
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-5.0-2U-H	1292490000	E.8	SAIE-M12B-4-H10TL	2424170000	D.34
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-5.0-2U-M20	1471490000	E.11	SAIE-M12B-4-H12TL-PG9	2424470000	D.25
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE/7/8S-5.0-2U-PG13.5	1292480000	E.10	SAIE-M12B-4-H5.5TL	2424230000	D.34
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-EW-M20/PG9-SW24-VA	1950270000	J.39	SAIE-M12B-4-H5.5TL-PG9	2424440000	D.25
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-KMM10X1-SW12	2424560000	D.4	SAIE-M12B-4S-13/14SMT	2423890000	D.38
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-KMM10X1-SW12	2424560000	D.5	SAIE-M12B-4S-9/14SMT	2423860000	D.38
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-KMM10X1-SW12	2424560000	D.19	SAIE-M12B-4S-H6.75TL	2422000000	D.26
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-KMM12X1-SW14	2424570000	D.4	SAIE-M12B-PB-0.5U HW	1279480050	J.7
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-KMM12X1-SW14	2424570000	D.21	SAIE-M12B-PB-1.0U HW	1279481000	J.7
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-KMM14X1-SW15	2424010000	D.44	SAIE-M12B-PB-2.0U HW	1279482000	J.7
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-M12S-12.0-5U-FP-M16	1289140000	C.39	SAIE-M12B-PB-5.0U HW	1279480500	J.7
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-M12B-12S-TL-HW-PG9	1467810000	C.47	SAIE-M12S-12-0-5U-FP-M16	1283550000	C.39
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-M12B-3-PE-S-0.5U-M16	1460310000	G.19	SAIE-M12S-12S-TL-HW-PG9	1467740000	C.47
SAIB-8/9	1836960000	C.21	SAIBW-5/9-7/8	1292020000	E.6	SAIE-M12B-4-0-2U-P9 75	1353780000	G.18	SAIE-M12S-3-PE-S-0.5U-M16	1460320000	G.19
SAIB-8/9	1836960000										

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SAIE-M12S-4-S-0-2U-M16	1467930000	G.19	SAIE-M8B-4-H6THR	2422980000	D.11	SAIFG-M14X1-B-2	2423950000	D.5	SAIL-M12BG-5-5.0U	9457910500	B.7
SAIE-M12S-4S-9/14SMT	2423290000	D.37	SAIE-M8B-4S-F13SMT	2422440000	D.16	SAIFG-M14X1-B-2	2423950000	D.45	SAIL-M12BG-5-5.0V	1925590500	B.7
SAIE-M12S-4S-F10TL	2422610000	D.33	SAIE-M8B-4S-F13THR	2423040000	D.12	SAIFG-M14X1-S-1	2423980000	D.5	SAIL-M12BG-5B-1.5U	1061880150	B.49
SAIE-M12S-4S-F5.5TL	2423090000	D.32	SAIE-M8B-4S-F9SMT	2422410000	D.16	SAIFG-M14X1-S-1	2423980000	D.44	SAIL-M12BG-5S1.5U	9456140150	B.17
SAIE-M12S-4S-H10TL	2422850000	D.32	SAIE-M8B-4S-F9THR	2423010000	D.12	SAIFG-M8B-M10-1.3	2424460000	D.14	SAIL-M12BG-8-1.5U	1865870150	B.14
SAIE-M12S-4S-H5.5TL	2423330000	D.32	SAIE-M8B-4S-F9TL	2423550000	D.8	SAIFG-M8B-M10-13	2424460000	D.18	SAIL-M12BG-8S1.5U	1890520150	B.15
SAIE-M12S-4S-TL-HW-PG9	1467710000	C.47	SAIE-M8B-4S-H10TL	2423580000	D.7	SAIFG-M8B-M10-9	2424430000	D.4	SAIL-M12BG-8-USB-1.5U	1962800150	B.37
SAIE-M12S-4-T-0-2U-M16	1467950000	G.19	SAIE-M8B-5B-H5.5TL	2421630000	D.6	SAIFG-M8B-M10-9	2424430000	D.18	SAIL-M12BG-CD-1.5U	1964690150	J.62
SAIE-M12S-4-0-5U-M16	1460340000	G.19	SAIE-M8B-5-F13SMT	2422680000	D.14	SAIFG-M8S-M10-13	2424530000	D.4	SAIL-M12BG-CD-1.5B	1060120150	J.62
SAIE-M12S-5-0-2U-P.75	1353790000	G.18	SAIE-M8B-5-F13THR	2423280000	D.10	SAIFG-M8S-M10-13	2424530000	D.19	SAIL-M12BG-K-1.5P	2455150150	G.6
SAIE-M12S-5-0-5U-FP-M16	1861170000	C.39	SAIE-M8B-5-F9SMT	2422850000	D.14	SAIFG-M8S-M10-9	2424520000	D.4	SAIL-M12BG-K-5.0P	2455150000	G.6
SAIE-M12S-5-0-5U-M16	1861230000	C.39	SAIE-M8B-5-F9THR	2423250000	D.10	SAIFG-M8S-M10-9	2424520000	D.19	SAIL-M12BG-K-3.0P	2455150300	G.6
SAIE-M12S-5-0-5U-PG9	1856120000	C.40	SAIE-M8B-5-F13TL	2423670000	D.8	SAIH-3x0.25(PUR)	1902140000	B.62	SAIL-M12BG-K-5.0P	2455150500	G.6
SAIE-M12S-5-9/14SMT	2423360000	D.36	SAIE-M8B-5B-H6TL	2423700000	D.7	SAIH-3x0.25(PVC)	1902190000	B.65	SAIL-M12BG-L-1.5P	2455330150	G.4
SAIE-M12S-5A-F-LK	2424160000	D.46	SAIE-M8B-8-0-2U-FP	1467630000	C.41	SAIH-3x0.34(PUR)	1902110000	B.63	SAIL-M12BG-L-10P	2455330100	G.4
SAIE-M12S-5A-FV-20-LK	2424270000	D.47	SAIE-M8B-8-0-2U-HW	1467640000	C.41	SAIH-3x0.34(PUR)	1902110000	B.73	SAIL-M12BG-L-3.0P	2455330300	G.4
SAIE-M12S-5A-FV-26-LK	2424370000	D.47	SAIE-M8B-8-H5.5TL	2421850000	D.6	SAIH-3x0.34(PVC)	1902160000	B.66	SAIL-M12BG-L-5.0P	2455330500	G.4
SAIE-M12S-5A-H4LK	2424210000	D.46	SAIE-M8B-8S-F13SMT	2422740000	D.16	SAIH-3x0.34(PUR)GE	1345520000	B.68	SAIL-M12BG-PB-1.5D	1873320150	J.4
SAIE-M12S-5AS-H6.75TL	2424070000	D.26	SAIE-M8B-8S-F13THR	2423340000	D.12	SAIH-3x0.34(S-PUR)	1357320000	B.70	SAIL-M12BG-PB-1.5E	1058540150	J.4
SAIE-M12S-5B-H4LK	2424240000	D.46	SAIE-M8B-8S-F9SMT	2422710000	D.16	SAIH-4x0.25(PUR)	1902120000	B.62	SAIL-M12BG-PBK3B-1.5V	1431520150	J.6
SAIE-M12S-5-F10TL	2422640000	D.28	SAIE-M8B-8S-F9THR	2423310000	D.12	SAIH-4x0.25(PVC)	1902170000	B.65	SAIL-M12BG-S-1.5P	2050160150	G.8
SAIE-M12S-5-F5.5TL	2423120000	D.27	SAIE-M8B-8S-H10SMT	2422770000	D.15	SAIH-4x0.34(PUR)	1902130000	B.63	SAIL-M12BG-S-3.0P	2050160100	G.8
SAIE-M12S-5-H10TL	2422880000	D.28	SAIE-M8B-8S-H10THR	2423370000	D.11	SAIH-4x0.34(PUR)	1902130000	B.73	SAIL-M12BG-S-10P	2050160300	G.8
SAIE-M12S-5-H12TL-M16	2421860000	D.22	SAIE-M8B-8S-H10TL	2423730000	D.7	SAIH-4x0.34(PVC)	1902180000	B.66	SAIL-M12BG-S3-1.5P	2049950150	G.8
SAIE-M12S-5-H12TL-PG9	2422190000	D.27	SAIE-M8B-8S-H6TL	2423400000	D.7	SAIH-4x0.34(PUR)GE	1345530000	B.68	SAIL-M12BG-S3-10P	2049951000	G.8
SAIE-M12S-5-H5.5TL	2423360000	D.23	SAIE-M8B-8-TL-HW	1467650000	C.42	SAIH-4x0.34(S-PUR)	1357330000	B.70	SAIL-M12BG-S3-3.0P	2049950300	G.8
SAIE-M12S-5-H5.5TL-M16	2421770000	D.22	SAIE-M8B-8-0-5U-FP-M8	1861280000	C.43	SAIH-5x0.34(PUR)	1022960000	B.64	SAIL-M12BG-S3-5.0P	2049950500	G.8
SAIE-M12S-5-H5.5TL-PG9	2422160000	D.23	SAIE-M8B-4-0-5U-FP-M8	1861290000	C.43	SAIH-5x0.34(PUR)GE	1345540000	B.69	SAIL-M12BG-S-5.0P	2050160500	G.8
SAIE-M12S-5S0.5U HW	1341230050	C.45	SAIE-M8S-3-0-5U-FP-M8	1078730000	C.43	SAIH-5x0.34(PVC)	1416260000	B.67	SAIL-M12BG-T-1.5H	2050680150	G.10
SAIE-M12S-5S2.0U HW	1341230200	C.45	SAIE-M8S-3-F13SMT	2422290000	D.14	SAIH-5x0.34(S-PUR)	1357340000	B.71	SAIL-M12BG-T-1.5P	2050490150	G.10
SAIE-M12S-5S-9/14SMT	2423320000	D.37	SAIE-M8S-3-F13THR	2422890000	D.10	SAIH-CD-2x0.34/2x0.22-PUR	1058630000	J.65	SAIL-M12BG-T-10H	2050681000	G.10
SAIE-M12S-5S-F10TL	2422670000	D.33	SAIE-M8S-3-F9SMT	2422260000	D.14	SAIHG-M8B-M12-10	2424500000	D.4	SAIL-M12BG-T-10P	2050491000	G.10
SAIE-M12S-5S-F5.5TL	2423150000	D.32	SAIE-M8S-3-F9THR	2422860000	D.10	SAIHG-M8B-M12-10	2424500000	D.20	SAIL-M12BG-T-3.0H	2050680300	G.10
SAIE-M12S-5S-H10TL	2422910000	D.33	SAIE-M8S-3-H5.5TL	2421570000	D.16	SAIHG-M8B-M12-6	2424480000	D.4	SAIL-M12BG-T-3.0P	2050490300	G.10
SAIE-M12S-5S-H5.5TL	2423390000	D.32	SAIE-M8S-3S-F13SMT	2422350000	D.6	SAIHG-M8B-M12-6	2424480000	D.20	SAIL-M12BG-T-5.0H	2050680500	G.10
SAIE-M12S-5S-TL-HW-PG9	1467720000	C.47	SAIE-M8S-3S-F13THR	2422950000	D.12	SAIHG-M8S-M12-10	2424550000	D.4	SAIL-M12BG-T-5.0P	2050490500	G.10
SAIE-M12S-5-TL	1312980000	C.46	SAIE-M8S-3S-F13TL	2423460000	D.8	SAIHG-M8S-M12-10	2424550000	D.21	SAIL-M12BG-USB-3.0U	1288820300	B.37
SAIE-M12S-8-0-5U-FP-M16	1861180000	C.39	SAIE-M8S-3S-F9SMT	2423230000	D.16	SAIHG-M8S-M12-6	2424540000	D.4	SAIL-M12BG-12-1.5U	1898240150	B.14
SAIE-M12S-8-0-5U-M16	1861110000	C.39	SAIE-M8S-3S-F9THR	2422920000	D.12	SAIHG-M8S-M12-6	2424540000	D.21	SAIL-M12BW-3-1.5T	1968560150	B.11
SAIE-M12S-8-0-5U-PG9	1861240000	C.40	SAIE-M8S-3S-F9TL	2423430000	D.8	SAIHG-M8S-M12-6	2424540000	D.21	SAIL-M12BW-3-1.5U	9457320150	B.7
SAIE-M12S-8-9/14SMT	2423260000	D.36	SAIE-M8S-3S-H10TL	2423520000	D.7	SAIH-PB-2x0.34-PVC	1933640000	J.9	SAIL-M12BW-3-1.5U	9457320150	B.11
SAIE-M12S-8-H12TL-M16	2421890000	D.22	SAIE-M8S-3S-H6TL	2423490000	D.7	SAIH-PB-PA-2x1.0(PVPC)	1232640000	J.36	SAIL-M12BW-3-5UGE	1092940150	B.11
SAIE-M12S-8-H12TL-PG9	2422250000	D.23	SAIE-M8S-4-0-5U-FP-M8	1078720000	C.43	SAIH-PB-PA-2X1.0-PVC-BL	1232630000	J.36	SAIL-M12BW-3-1.5V	1925630150	B.7
SAIE-M12S-8-H5.5TL-M16	2421800000	D.22	SAIE-M8S-4-F13SMT	2422500000	D.14	SAIH-SLL-3x0.75-8x0.34	9457420000	B.72	SAIL-M12BW-3-1.5U	1925630150	B.11
SAIE-M12S-8-H5.5TL-PG9	2422220000	D.23	SAIE-M8S-4-F13THR	2423100000	D.10	SAIH-SLL-3x0.75-16x0.34	9457560000	B.72	SAIL-M12BW-3-10V	9457321000	B.7
SAIE-M12S-8S0.5U HW	1341240050	C.45	SAIE-M8S-4-F9SMT	2422470000	D.14	SAI-IDC-TOOL	1795020000	H.23	SAIL-M12BW-3-10V	1925631000	B.7
SAIE-M12S-8S2.0U HW	1341240200	C.45	SAIE-M8S-4-F9THR	2423070000	D.10	SAIL-7/8BG-3-1.5U	1292100150	E.13	SAIL-M12BW-3-3.0U	9457320300	B.7
SAIE-M12S-8S-9/14SMT	2423350000	C.37	SAIE-M8S-4-H5.5TL	2421580000	D.6	SAIL-7/8BG-4-1.5U	1292140150	E.13	SAIL-M12BW-3-3.0U	1925630300	B.7
SAIE-M12S-8S-TL-HW-PG9	1467730000	C.47	SAIE-M8S-4-H6SMT	2422350000	D.15	SAIL-7/8BG-5-1.5U	1292190150	E.13	SAIL-M12BW-3-5.0U	9457320500	B.7
SAIE-M12SB-4-F10TL	2423960000	D.35	SAIE-M8S-4-H6THR	2423130000	D.11	SAIL-7/8BW-3-1.5U	1292110150	E.13	SAIL-M12BW-3-5.0V	1925630500	B.7
SAIE-M12SB-4-F5.5TL	2424080000	D.35	SAIE-M8S-4S-F13SMT	2422590000	D.15	SAIL-7/8BW-4-1.5U	1292150150	E.13	SAIL-M12BW-3B-1.5U	1061890150	B.49
SAIE-M12SB-4-H10TL	2423990000	D.34	SAIE-M8S-4S-F9SMT	2422560000	D.6	SAIL-7/8BW-5-1.5U	1292200150	E.13	SAIL-M12BW-3L1.5U	1004330150	B.16
SAIE-M12SB-4-H12TL-PG9	2421730000	D.25	SAIE-M8S-4S-F9SMT	2422560000	D.16	SAIL-7/8G-3-1.5U	1292080150	E.13	SAIL-M12BW-3L1.5U	9457800150	B.8
SAIE-M12SB-4-H5.5TL	2424110000	D.34	SAIE-M8S-4S-F9THR	2423160000	D.12	SAIL-7/8G-4-1.5U	1292120150	E.13	SAIL-M12BW-3L1.5U	9457800150	B.8
SAIE-M12SB-4-H5.5TL-PG9	2421700000	D.25	SAIE-M8S-4S-H10SMT	2422820000	D.15	SAIL-7/8G-5-1.5U	1292170150	E.13	SAIL-M12BW-3L1.5UGE	1114980150	B.16
SAIE-M12SB-4S-9SMT	2423800000	D.38	SAIE-M8S-4S-H10THR	2423220000	D.11	SAIL-7/8W-3-1.5U	1292090150	E.13	SAIL-M12BW-3L1.5U	1925460150	B.8
SAIE-M12SB-5S-9SMT	2423830000	D.38	SAIE-M8S-4S-H10TL	2423640000	D.7	SAIL-7/8W-4-1.5U	1292130150	E.13	SAIL-M12BW-3L1.5V	1925460150	B.16
SAIE-M12S-PB-0.5U HW	1279490050	J.7	SAIE-M8S-4S-H6TL	2423610000	D.7	SAIL-7/8W-5-1.5U	1292180150	E.13	SAIL-M12BW-3L10V	9457801000	B.8
SAIE-M12S-PB-1.0U HW	1279490100	J.7	SAIE-M8S-5B-H5.5TL	2421590000	D.6	SAIL-M12BG-12-1.5U	1879710150	B.14	SAIL-M12BW-3L10V	1925461000	B.8
SAIE-M12S-PB-2.0U HW	1279490200	J.7	SAIE-M8S-8-0-2U-FP	1467590000	C.41	SAIL-M12BG-3-1.5T	1968590150	B.11	SAIL-M12BW-3L3.0U	9457800300	B.8
SAIE-M12S-PB-5.0U HW	1279490500	J.7	SAIE-M8S-8-0-2U-HW	1467820000	C.41	SAIL-M12BG-3-1.5U	9457820150	B.6	SAIL-M12BW-3L3.0U	1925460300	B.8
SAIE-M16B-4L	1326720000	C.48	SAIE-M8S-8-H5.5TL	2421690000	D.6	SAIL-M12BG-3-1.5U	9457820150	B.11	SAIL-M12BW-3L5.0U	9457800500	B.8
SAIE-M16B-5L	1326730000	C.48	SAIE-M8S-8-TL-HW	1467610000	C.42	SAIL-M12BG-3-1.5UGE	1092910150	B.11	SAIL-M12BW-3L5.0U	1925460500	B.8
SAIE-M16B-7L	1326740000	C.48	SAIE-CAN M8 4P	1965340000	J.64	SAIL-M12BG-3-1.5V	1925570150	B.6	SAIL-M12BW-3S1.5U	1968950150	B.17
SAIE-M16S-5HWM	1269790000	C.48	SAIEW-M12B-4-FTL	2423540000	D.29	SAIL-M12BG-3-1.5U	1925570150	B.11	SAIL-M12BW-4-1.5T	1968570150	B.11
SAIE-M23-L-EM	1170320000	F.31	SAIEW-M12B-4-HTL	2423420000	D.29	SAIL-M12BG-3-10V	9457821000	B.6	SAIL-M12BW-4-1.5U	9457740150	B.7
SAIE-M23-L-EM-VA	1479420000	F.16	SAIEW-M12B-4S-FTL	2423570000	D.30	SAIL-M12BG-3-10V	1925571000	B.6	SAIL-M12BW-4-1.5U	9457740150	B.11
SAIE-M23-L-HW	1170340000	F.31	SAIEW-M12B-4S-HTL	2423450000	D.30	SAIL-M12BG-3-3.0U	9457820300	B.6	SAIL-M12BW-4-1.5UGE	1092980150	B.11
SAIE-M23-L-IRM	1170310000	F.31	SAIEW-M12B-4S-TL-HW-PG9	1467820000	C.47	SAIL-M12BG-3-3.0V	1925570300	B.6	SAIL-M12BW-4-1.5U	1925640150	B.7
SAIE-M23-L-VW	1170300000	F.31	SAIEW-M12B-5-FTL	2423600000	D.29	SAIL-M12BG-3-5.0U	9457820500	B.6	SAIL-M12BW-4-1.5U	1925640150	B.11
SAIE-M23-L-VW-VA	1483880000	F.16	SAIEW-M12B-5-HTL	2423480000	D.29	SAIL-M12BG-3-5.0V	1925570500	B.6	SAIL-M12BW-4-10V	9457741000	B.7
SAIE-M23-L-W	1170330000	F.31	SAIEW-M12B-5S-FTL	2423630000	D.30	SAIL-M12BG-3B-1.5U	1057740150	B.49	SAIL-M12BW-4-10V	1925641000	B.7
SAIE-M23-S-EM	1169970000	F.13	SAIEW-M12B-5S-HTL	2423510000	D.30	SAIL-M12BG-3L1.5U	1292620150	B.16	SAIL-M12BW-4-21.5T	1007000150	B.16
SAIE-M23-S-EM	1169970000	F.28	SAIEW-M12B-5S-TL-HW-PG9	1467830000	C.47	SAIL-M12BG-3S1.5U	1867410150	B.17	SAIL-M12BW-4-21.5U	9456380150	B.8

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SAIL-M12BW-5-10V	1925651000	B.7	SAIL-M12GM12G-3-1.5UGE	1093010150	B.29	SAIL-M12GM12W-3L3.0V	1925410300	B.8	SAIL-M12GM8W-3-1.5U	9457980150	B.33
SAIL-M12BW-8-3.0U	9457690300	B.7	SAIL-M12GM12G-3-1.5V	1925300150	B.6	SAIL-M12GM12W-3L5.0U	9457790500	B.8	SAIL-M12GM8W-3-1.5V	1938180150	B.5
SAIL-M12BW-8-3.0V	1925650300	B.7	SAIL-M12GM12G-3-1.5V	1925300150	B.29	SAIL-M12GM12W-3L5.0U	1925410500	B.8	SAIL-M12GM8W-3-1.5V	1938180150	B.33
SAIL-M12BW-5-5.0U	9457690500	B.7	SAIL-M12GM12G-3-10U	9457231000	B.6	SAIL-M12GM12W-3S1.5U	1059470150	B.30	SAIL-M12GM8W-3-10U	9457981000	B.5
SAIL-M12BW-5-5.0V	1925650500	B.7	SAIL-M12GM12G-3-10U	1925300150	B.6	SAIL-M12GM12W-4-1.5T	1021740150	B.29	SAIL-M12GM8W-3-10V	1938181000	B.5
SAIL-M12BW-5B-1.5U	1057760150	B.49	SAIL-M12GM12G-3-3.0U	9457230300	B.6	SAIL-M12GM12W-4-1.5U	9457310150	B.7	SAIL-M12GM8W-3-3.0U	9457980300	B.5
SAIL-M12BW-5S1.5U	1906540150	B.17	SAIL-M12GM12G-3-3.0V	1925300300	B.6	SAIL-M12GM12W-4-1.5U	9457310150	B.29	SAIL-M12GM8W-3-3.0V	1938180300	B.5
SAIL-M12BW-8-1.5U	1883460150	B.14	SAIL-M12GM12G-3-5.0U	9457230500	B.6	SAIL-M12GM12W-4-1.5UGE	1093070150	B.29	SAIL-M12GM8W-3-5.0U	9457980500	B.5
SAIL-M12BW-8S1.5U	1275470150	B.15	SAIL-M12GM12G-3-5.0V	1925300500	B.6	SAIL-M12GM12W-4-1.5V	1925350150	B.7	SAIL-M12GM8W-3-5.0V	1938180500	B.5
SAIL-M12BW-CD-1.5A	1061980150	J.62	SAIL-M12GM12G-3B-1.5U	1057830150	B.50	SAIL-M12GM12W-4-1.5V	1925350150	B.29	SAIL-M12GM8W-3L1.5U	9457760150	B.5
SAIL-M12BW-CD-1.5B	1062180150	J.62	SAIL-M12GM12G-3S1.5U	1058490150	B.30	SAIL-M12GM12W-4-1.5U	9457311000	B.7	SAIL-M12GM8W-3L1.5U	9457760150	B.36
SAIL-M12BW-K-1.5P	2455190150	G.6	SAIL-M12GM12G-4-0.3U	1906300030	K.7	SAIL-M12GM12W-4-10V	1925351000	B.7	SAIL-M12GM8W-3L1.5UGE	1093110150	B.36
SAIL-M12BW-K-10P	2455191000	G.6	SAIL-M12GM12G-4-0.5U	1906300050	K.7	SAIL-M12GM12W-4-2L1.5T	1004310150	B.32	SAIL-M12GM8W-3L1.5U	1962290150	B.36
SAIL-M12BW-K-3.0P	2455190300	G.6	SAIL-M12GM12G-4-1.5T	1021730150	B.29	SAIL-M12GM12W-4-2L1.5U	1906410150	B.8	SAIL-M12GM8W-3L10U	9457761000	B.5
SAIL-M12BW-K-5.0P	2455190500	G.6	SAIL-M12GM12G-4-1.5U	1906300150	B.6	SAIL-M12GM12W-4-2L1.5U	1906410150	B.32	SAIL-M12GM8W-3L3.0U	9457760300	B.5
SAIL-M12BW-L-1.5P	2455200150	G.4	SAIL-M12GM12G-4-1.5U	1906300150	B.29	SAIL-M12GM12W-4-2L3.0V	1925420150	B.8	SAIL-M12GM8W-3L5.0U	9457760500	B.5
SAIL-M12BW-L-10P	2455201000	G.4	SAIL-M12GM12G-4-1.5U	1906300150	K.7	SAIL-M12GM12W-4-2L3.0V	1925420150	B.32	SAIL-M12GM8W-4-1.5U	9456670150	B.5
SAIL-M12BW-L-3.0P	2455200300	G.4	SAIL-M12GM12G-4-1.5UGE	1093020150	B.29	SAIL-M12GM12W-4-2L10U	1906411000	B.8	SAIL-M12GM8W-4-1.5U	9456670150	B.33
SAIL-M12BW-L-5.0P	2455200500	G.4	SAIL-M12GM12G-4-1.5V	1925310150	B.6	SAIL-M12GM12W-4-2L10V	1925421000	B.8	SAIL-M12GM8W-4-1.5V	1938210150	B.5
SAIL-M12BW-PB-1.5A	1062300150	J.4	SAIL-M12GM12G-4-1.5V	1925310150	B.29	SAIL-M12GM12W-4-2L3.0U	1906410300	B.8	SAIL-M12GM8W-4-1.5V	1938210150	B.33
SAIL-M12BW-PB-1.5E	1062370150	J.4	SAIL-M12GM12G-4-10U	1906301000	B.6	SAIL-M12GM12W-4-2L3.0U	1925420300	B.8	SAIL-M12GM8W-4-10U	9456671000	B.5
SAIL-M12BW-PBK3B-1.5V	1431510150	J.6	SAIL-M12GM12G-4-10V	1925311000	B.6	SAIL-M12GM12W-4-2L5.0U	1906410500	B.8	SAIL-M12GM8W-4-10V	1938211000	B.5
SAIL-M12BW-S-1.5P	2050210150	G.8	SAIL-M12GM12G-4-3.0U	1906300300	B.6	SAIL-M12GM12W-4-2L5.0V	1925420500	B.8	SAIL-M12GM8W-4-3.0U	9456670300	B.5
SAIL-M12BW-S-10P	2050211000	G.8	SAIL-M12GM12G-4-3.0V	1925310300	B.6	SAIL-M12GM12W-4-3.0U	9457310300	B.7	SAIL-M12GM8W-4-3.0V	1938210300	B.5
SAIL-M12BW-S-3.0P	2050210300	G.8	SAIL-M12GM12G-4-5.0U	1906300500	B.6	SAIL-M12GM12W-4-3.0V	1925350300	B.7	SAIL-M12GM8W-4-5.0U	9456670500	B.5
SAIL-M12BW-S-3.0P	2050210150	G.8	SAIL-M12GM12G-4-5.0V	1925310500	B.6	SAIL-M12GM12W-4-3L1.5U	1963910150	B.32	SAIL-M12GM8W-4-5.0V	1938210500	B.5
SAIL-M12BW-S-3.0P	2050011000	G.8	SAIL-M12GM12G-4B-1.5U	1057840150	B.50	SAIL-M12GM12W-4-3L1.5U	1963930150	B.32	SAIL-M12GM8W-4L1.5U	1906430150	B.36
SAIL-M12BW-S-3.0P	2050010300	G.8	SAIL-M12GM12G-4S1.5U	1058500150	B.30	SAIL-M12GM12W-4-3LW1.5T	1020930150	B.32	SAIL-M12GM8W-4L1.5UGE	1093130150	B.36
SAIL-M12BW-S-5.0P	2050010500	G.8	SAIL-M12GM12G-5-0.3U	9457340030	K.7	SAIL-M12GM12W-4-3LW1.5UGE	1093060150	B.32	SAIL-M12GM8W-4L1.5V	1962300150	B.36
SAIL-M12BW-S-5.0P	2050210500	G.8	SAIL-M12GM12G-5-0.6U	9457340060	K.7	SAIL-M12GM12W-4-5.0U	9457310500	B.7	SAIL-M12GM8WR-3-1.5U	9456770150	B.34
SAIL-M12BW-T-1.5H	2050690150	G.10	SAIL-M12GM12G-5-1.5T	1011970150	B.29	SAIL-M12GM12W-4-5.0V	1925350500	B.7	SAIL-M12GM8WR-3-1.5UGE	1093150150	B.34
SAIL-M12BW-T-1.5P	2050690150	G.10	SAIL-M12GM12G-5-1.5U	9457340150	B.7	SAIL-M12GM12W-4-5.0V	1057910150	B.50	SAIL-M12G-PB-1.5E	1873300150	J.4
SAIL-M12BW-T-10P	2050691000	G.10	SAIL-M12GM12G-5-1.5U	9457340150	B.29	SAIL-M12GM12W-4-5.0V	1059480150	B.30	SAIL-M12G-PB-1.5U	1058530150	J.4
SAIL-M12BW-T-10P	2050690150	G.10	SAIL-M12GM12G-5-1.5U	9457340150	K.7	SAIL-M12GM12W-5-1.5T	1011990150	B.29	SAIL-M12G-S-1.5P	2050230150	G.8
SAIL-M12BW-T-3.0H	2050690300	G.10	SAIL-M12GM12G-5-1.5UGE	1093030150	B.29	SAIL-M12GM12W-5-1.5T	9457270150	B.7	SAIL-M12G-S-10P	2050231000	G.8
SAIL-M12BW-T-3.0P	2050690300	G.10	SAIL-M12GM12G-5-1.5V	1925320150	B.7	SAIL-M12GM12W-5-1.5U	9457270150	B.29	SAIL-M12G-S-3.0P	2050230300	G.8
SAIL-M12BW-T-5.0H	2050690500	G.10	SAIL-M12GM12G-5-1.5V	1925320150	B.29	SAIL-M12GM12W-5-1.5UGE	1093080150	B.29	SAIL-M12G-S3-1.5P	2050020150	G.8
SAIL-M12BW-T-5.0P	2050690500	G.10	SAIL-M12GM12G-5-10U	9457341000	B.7	SAIL-M12GM12W-5-1.5V	1925360150	B.7	SAIL-M12G-S3-10P	2050021000	G.8
SAIL-M12G-12-1.5U	1311700150	B.14	SAIL-M12GM12G-5-10U	1925321000	B.7	SAIL-M12GM12W-5-1.5V	1925360150	B.29	SAIL-M12G-S3-3.0P	2050020300	G.8
SAIL-M12G-3-1.5T	1021750150	B.11	SAIL-M12GM12G-5-3.0U	9457340300	B.7	SAIL-M12GM12W-5-1.5U	9457271000	B.7	SAIL-M12G-S3-5.0P	2050020500	G.8
SAIL-M12G-3-1.5U	9457810150	B.4	SAIL-M12GM12G-5-3.0V	1925320300	B.7	SAIL-M12GM12W-5-1.5U	1925361000	B.7	SAIL-M12G-S-5.0P	2050230500	G.8
SAIL-M12G-3-1.5U	9457810150	B.11	SAIL-M12GM12G-5-5.0U	9457340500	B.7	SAIL-M12GM12W-5-10U	9457270300	B.7	SAIL-M12G-T-1.5H	2050700150	G.10
SAIL-M12G-3-1.5UGE	1092980150	B.11	SAIL-M12GM12G-5-5.0V	1925320500	B.7	SAIL-M12GM12W-5-3.0U	1925360300	B.7	SAIL-M12G-T-1.5P	2050640150	G.10
SAIL-M12G-3-1.5V	1925430150	B.4	SAIL-M12GM12G-5B-1.5U	1057850150	B.50	SAIL-M12GM12W-5-3.0V	9457270500	B.7	SAIL-M12G-T-10H	2050701000	G.10
SAIL-M12G-3-1.5V	1925430150	B.11	SAIL-M12GM12G-5S1.5U	1058510150	B.30	SAIL-M12GM12W-5-5.0U	1925360500	B.7	SAIL-M12G-T-10P	2050641000	B.7
SAIL-M12G-3-10U	9457811000	B.4	SAIL-M12GM12G-6-1.5U	1279440150	B.14	SAIL-M12GM12W-5B-1.5U	1057920150	B.50	SAIL-M12G-T-3.0H	2050700300	G.10
SAIL-M12G-3-10V	1925431000	B.4	SAIL-M12GM12G-6S1.5U	1279440150	B.15	SAIL-M12GM12W-5S1.5U	1059540150	B.30	SAIL-M12G-T-3.0P	2050640300	G.10
SAIL-M12G-3-3.0U	9457810300	B.4	SAIL-M12GM12G-CD-1.5A	1964710150	J.63	SAIL-M12GM12W-8-1.5U	1279450150	B.14	SAIL-M12G-T-5.0H	2050700500	G.10
SAIL-M12G-3-3.0V	1925430300	B.4	SAIL-M12GM12G-CD-1.5B	1060130150	J.63	SAIL-M12GM12W-8S1.5U	1279470150	B.15	SAIL-M12G-T-5.0P	2050640500	G.10
SAIL-M12G-3-5.0U	9457810500	B.4	SAIL-M12GM12G-K-1.5P	2455250150	G.7	SAIL-M12GM12W-CD-1.5A	1061990150	J.63	SAIL-M12G-USB-3.0U	1268520000	B.37
SAIL-M12G-3-5.0V	1925430500	G.4	SAIL-M12GM12G-K-10P	2455250150	G.7	SAIL-M12GM12W-CD-1.5B	1062190150	J.63	SAIL-M12W-12-1.5U	1311690150	B.14
SAIL-M12G-3B-1.5U	1057770150	B.49	SAIL-M12GM12G-K-3.0P	2455250300	G.7	SAIL-M12GM12W-CD-1.5P	2455270150	G.7	SAIL-M12W-3-1.5T	1021760150	B.11
SAIL-M12G-3S1.5U	1906470150	B.17	SAIL-M12GM12G-K-5.0P	2455250500	G.7	SAIL-M12GM12W-K-10P	2455271000	G.7	SAIL-M12W-3-1.5U	9456690150	B.4
SAIL-M12G-4-1.5T	1021770150	B.11	SAIL-M12GM12G-L-1.5P	2455260150	G.5	SAIL-M12GM12W-K-3.0P	2455270300	G.7	SAIL-M12W-3-3.0P	9456690150	B.11
SAIL-M12G-4-1.5U	9456100150	B.4	SAIL-M12GM12G-L-10P	2455261000	G.5	SAIL-M12GM12W-K-5.0P	2455270500	G.7	SAIL-M12W-3-5.0P	1093160150	B.11
SAIL-M12G-4-1.5U	9456100150	B.11	SAIL-M12GM12G-L-3.0P	2455260300	G.5	SAIL-M12GM12W-L-1.5P	2455280150	G.5	SAIL-M12W-3-1.5V	1925510150	B.4
SAIL-M12G-4-1.5UGE	1077750150	B.11	SAIL-M12GM12G-L-5.0P	2455260500	G.5	SAIL-M12GM12W-L-10P	2455281000	G.5	SAIL-M12W-3-1.5V	1925510150	B.11
SAIL-M12G-4-1.5V	1925440150	B.4	SAIL-M12GM12G-LB-1.5U	1873310150	J.5	SAIL-M12GM12W-L-3.0P	2455280300	G.5	SAIL-M12W-3-10U	9456690150	B.4
SAIL-M12G-4-1.5V	1925440150	B.11	SAIL-M12GM12G-LB-1.5E	1058570150	J.5	SAIL-M12GM12W-L-5.0P	2455280500	G.5	SAIL-M12W-3-10V	1925511000	B.4
SAIL-M12G-4-10U	9456101000	B.4	SAIL-M12GM12G-S-1.5P	2050270150	G.9	SAIL-M12GM12W-L-5.0P	2050100150	G.9	SAIL-M12W-3-10V	1925511000	B.11
SAIL-M12G-4-10U	1925441000	B.4	SAIL-M12GM12G-S-10P	2050271000	G.9	SAIL-M12GM12W-PB-1.5D	1062310150	J.5	SAIL-M12W-3-3.0U	9456690300	B.4
SAIL-M12G-4-3.0U	9456100300	B.4	SAIL-M12GM12G-S-3.0P	2050270300	G.9	SAIL-M12GM12W-PB-1.5E	1062380150	J.5	SAIL-M12W-3-3.0V	1925510300	B.4
SAIL-M12G-4-3.0V	1925440300	B.4	SAIL-M12GM12G-S-3.0P	2050270300	G.9	SAIL-M12GM12W-S-1.5P	2050460150	G.9	SAIL-M12W-3-5.0U	9456690500	B.4
SAIL-M12G-4-5.0U	9456100500	B.4	SAIL-M12GM12G-S3-1.5P	2050600150	G.9	SAIL-M12GM12W-S-10P	2050461000	G.9	SAIL-M12W-3-5.0V	1925510500	B.4
SAIL-M12G-4-5.0V	9456100500	B.4	SAIL-M12GM12G-S3-10P	2050601000	G.9	SAIL-M12GM12W-S-10P	2050460300	G.9	SAIL-M12W-3B-1.5U	1057800150	B.49
SAIL-M12G-4-5.0V	1925440500	G.4	SAIL-M12GM12G-S3-3.0P	2050600300	G.9	SAIL-M12GM12W-S-1.5P	2050100150	G.9	SAIL-M12W-3S1.5U	1906500150	B.17
SAIL-M12G-4B-1.5U	1057780150	B.49	SAIL-M12GM12G-S3-5.0P	2050600500	G.9	SAIL-M12GM12W-S3-10P	2050101000	G.9	SAIL-M12W-4-1.5T	1021790150	B.11
SAIL-M12G-4S1.5U	1906480150	B.17	SAIL-M12GM12G-S-5.0P	2050270500	G.9	SAIL-M12GM12W-S3-3.0P	2050100300	G.9	SAIL-M12W-4-1.5U	1906260150	B.4
SAIL-M12G-5-1.5T	1021850150	B.11	SAIL-M12GM12G-T-1.5H	2050870150	G.11	SAIL-M12GM12W-S3-5.0P	2050100500	G.9	SAIL-M12W-4-1.5U	1906260150	B.11
SAIL-M12G-5-1.5U	9457810150	B.4	SAIL-M12GM12G-T-1.5P	2050760150	G.11	SAIL-M12GM12W-S-5.0P	2050460500	G.9	SAIL-M12W-4-1.5UGE	1093170150	B.11
SAIL-M12G-5-1.5U	9457810150	B.11	SAIL-M12GM12G-T-10H	2050871000	G.11	SAIL-M12GM12W-T-1.5H	2050910150	G.11	SAIL-M12W-4-1.5V	1925520150	B.4
SAIL-M12G-5-1.5UGE	1092990150	B.11	SAIL-M12GM12G-T-10P	2050761000	G.11	SAIL-M12GM12W-T-1.5H	2050830150	G.11	SAIL-M12W-4-1.5V	1925520150	B.11
SAIL-M12G-5-1.5V	1925450150	B.4	SAIL-M12GM12G-T-3.0H	2050870300	G.11	SAIL-M12GM12W-T-10					

Type	Order No.	Page
SAIL-M12W-K-3.0P	2455230300	G.6
SAIL-M12W-K-5.0P	2455230500	G.6
SAIL-M12W-L-1.5P	2455240150	G.4
SAIL-M12W-L-5.0P	2455241000	G.4
SAIL-M12W-L-3.0P	2455240300	G.4
SAIL-M12W-L-5.0P	2455240500	G.4
SAIL-M12WM12G-3-1.5U	1821050150	B.6
SAIL-M12WM12G-3-10U	1821051000	B.6
SAIL-M12WM12G-3-3.0U	1821050300	B.6
SAIL-M12WM12G-3-5.0U	1821050500	B.6
SAIL-M12WM12G-3B-1.5U	1057870150	B.6
SAIL-M12WM12G-4B-1.5U	1057880150	B.6
SAIL-M12WM12G-5-1.5U	9456500150	B.7
SAIL-M12WM12G-5-10U	9456501000	B.7
SAIL-M12WM12G-5-3.0U	9456500300	B.7
SAIL-M12WM12G-5-5.0U	9456500500	B.7
SAIL-M12WM12G-5B-1.5U	1057890150	B.5
SAIL-M12WM12G-K-1.5P	2455310150	G.6
SAIL-M12WM12G-K-10P	2455311000	G.7
SAIL-M12WM12G-K-3.0P	2455310300	G.7
SAIL-M12WM12G-K-5.0P	2455310500	G.7
SAIL-M12WM12G-L-1.5P	2455320150	G.5
SAIL-M12WM12G-L-10P	2455321000	G.5
SAIL-M12WM12G-L-3.0P	2455320300	G.5
SAIL-M12WM12G-L-5.0P	2455320500	G.5
SAIL-M12WM12G-S-1.5P	2050350150	G.9
SAIL-M12WM12G-S-10P	2050351000	G.9
SAIL-M12WM12G-S-3.0P	2050350300	G.9
SAIL-M12WM12G-S-5.0P	2050350500	G.9
SAIL-M12WM12G-T-1.5H	2050890150	G.11
SAIL-M12WM12G-T-1.5P	2050890150	G.11
SAIL-M12WM12G-T-10H	2050891000	G.11
SAIL-M12WM12G-T-10P	2050892000	G.11
SAIL-M12WM12G-T-3.0H	2050890300	G.11
SAIL-M12WM12G-T-3.0P	2050890300	G.11
SAIL-M12WM12G-T-5.0H	2050890500	G.11
SAIL-M12WM12G-T-5.0P	2050890500	G.11
SAIL-M12WM12W-3-1.5U	1815670150	B.7
SAIL-M12WM12W-3-1.5U	1815670150	B.7
SAIL-M12WM12W-3-1.5V	1925380150	B.29
SAIL-M12WM12W-3-10U	1815671000	B.7
SAIL-M12WM12W-3-10U	1925381000	B.7
SAIL-M12WM12W-3-3.0U	1815670300	B.7
SAIL-M12WM12W-3-3.0U	1925380300	B.7
SAIL-M12WM12W-3-5.0U	1815670500	B.7
SAIL-M12WM12W-3B-1.5U	1061910150	B.5
SAIL-M12WM12W-3B-1.5U	1059720150	B.30
SAIL-M12WM12W-4-1.5U	1906310150	B.7
SAIL-M12WM12W-4-1.5U	1906310150	B.29
SAIL-M12WM12W-4-1.5V	1925390150	B.7
SAIL-M12WM12W-4-1.5V	1925390150	B.29
SAIL-M12WM12W-4-10U	1906311000	B.7
SAIL-M12WM12W-4-10U	1925391000	B.7
SAIL-M12WM12W-4-3.0U	1906310300	B.7
SAIL-M12WM12W-4-3.0U	1925390300	B.7
SAIL-M12WM12W-4-5.0U	1906310500	B.7
SAIL-M12WM12W-4-5.0U	1925390500	B.7
SAIL-M12WM12W-4B-1.5U	1061910150	B.5
SAIL-M12WM12W-4B-1.5U	1059730150	B.30
SAIL-M12WM12W-5-1.5U	9457900150	B.7
SAIL-M12WM12W-5-1.5U	9457900150	B.29
SAIL-M12WM12W-5-1.5V	1925400150	B.7
SAIL-M12WM12W-5-1.5V	1925400150	B.29
SAIL-M12WM12W-5-10U	9457901000	B.7
SAIL-M12WM12W-5-10U	1925401000	B.7
SAIL-M12WM12W-5-3.0U	9457900300	B.7
SAIL-M12WM12W-5-3.0U	1925400300	B.7
SAIL-M12WM12W-5-5.0U	9457900500	B.7
SAIL-M12WM12W-5-5.0U	1925400500	B.7
SAIL-M12WM12W-5B-1.5U	1061930150	B.5
SAIL-M12WM12W-5B-1.5U	1059740150	B.30
SAIL-M12WM12W-5S-1.5U	1062150150	J.63
SAIL-M12WM12W-CD-1.5A	1062210150	J.63
SAIL-M12WM12W-K-1.5P	2455290150	G.7
SAIL-M12WM12W-K-1.5P	2455291000	G.7
SAIL-M12WM12W-K-3.0P	2455290300	G.7
SAIL-M12WM12W-K-5.0P	2455290500	G.7
SAIL-M12WM12W-L-1.5P	2455300150	G.5
SAIL-M12WM12W-L-10P	2455301000	G.5
SAIL-M12WM12W-L-3.0P	2455300300	G.5
SAIL-M12WM12W-L-5.0P	2455300500	G.5
SAIL-M12WM12W-PB-1.5D	1062330150	J.6
SAIL-M12WM12W-PB-1.5E	1062400150	J.5
SAIL-M12WM12W-S-1.5P	2050470150	G.9
SAIL-M12WM12W-S-10P	2050471000	G.9
SAIL-M12WM12W-S-3.0P	2050470300	G.9
SAIL-M12WM12W-S-3.0P	2050470300	G.9
SAIL-M12WM12W-S-5.0P	2050150300	G.9
SAIL-M12WM12W-S-5.0P	2050150500	G.9
SAIL-M12WM12W-S-5.0P	2050470500	G.9
SAIL-M12WM12W-T-1.5H	2050920150	G.11
SAIL-M12WM12W-T-1.5P	2050920150	G.11

Type	Order No.	Page
SAIL-M12WM12W-T-10H	2050921000	G.11
SAIL-M12WM12W-T-10P	2050921000	G.11
SAIL-M12WM12W-T-3.0H	2050920300	G.11
SAIL-M12WM12W-T-3.0P	2050920300	G.11
SAIL-M12WM12W-T-5.0H	2050920500	G.11
SAIL-M12WM12W-T-5.0P	2050920500	G.11
SAIL-M12WM8W-3-1.5U	1906330150	B.5
SAIL-M12WM8W-3-1.5U	1906330150	B.33
SAIL-M12WM8W-3-1.5V	1938190150	B.5
SAIL-M12WM8W-3-1.5V	1938190150	B.33
SAIL-M12WM8W-3-10U	1938191000	B.5
SAIL-M12WM8W-3-10U	1938191000	B.5
SAIL-M12WM8W-3-3.0U	1906330300	B.5
SAIL-M12WM8W-3-3.0U	1938190300	B.5
SAIL-M12WM8W-3-5.0U	1906330500	B.5
SAIL-M12WM8W-3-5.0U	1938190500	B.5
SAIL-M12WM8W-4-1.5U	1906340150	B.5
SAIL-M12WM8W-4-1.5U	1906340150	B.33
SAIL-M12WM8W-4-1.5V	1938220150	B.5
SAIL-M12WM8W-4-1.5V	1938220150	B.33
SAIL-M12WM8W-4-10U	1906341000	B.5
SAIL-M12WM8W-4-10U	1938221000	B.5
SAIL-M12WM8W-4-3.0U	1906340300	B.5
SAIL-M12WM8W-4-3.0U	1938220300	B.5
SAIL-M12WM8W-4-5.0U	1906340500	B.5
SAIL-M12WM8W-4-5.0U	1938220500	B.5
SAIL-M12W-PB-1.5D	1061970150	J.4
SAIL-M12W-PB-1.5E	1062340150	J.4
SAIL-M12W-S-1.5P	2050260150	G.8
SAIL-M12W-S-10P	2050261000	G.8
SAIL-M12W-S-3.0P	2050260300	G.8
SAIL-M12W-S-3.0P	2050050150	G.8
SAIL-M12W-S-5.0P	2050051000	G.8
SAIL-M12W-S-5.0P	2050050300	G.8
SAIL-M12W-S-5.0P	2050050500	G.8
SAIL-M12W-S-6.0P	2050260500	G.8
SAIL-M12W-T-1.5H	2050710150	G.10
SAIL-M12W-T-1.5P	2050710150	G.10
SAIL-M12W-T-1.5P	2050710150	G.10
SAIL-M12W-T-10H	2050711000	G.10
SAIL-M12W-T-10P	2050711000	G.10
SAIL-M12W-T-3.0H	2050710300	G.10
SAIL-M12W-T-3.0P	2050650150	G.10
SAIL-M12W-T-5.0H	2050710500	G.10
SAIL-M12W-T-5.0P	2050650500	G.10
SAIL-M16BW-12-1.5U	1259010150	B.26
SAIL-M23-KSW-7/12	1169930000	F.12
SAIL-M5B-3P-1.5U	1873290150	B.25
SAIL-M5B-4P-1.5U	1873250150	B.25
SAIL-M5B-4P-1.5U	1873260150	B.25
SAIL-M5B-4P-1.5U	1873270150	B.25
SAIL-M5C-3P-1.5U	1848060150	B.25
SAIL-M5C-4P-1.5U	1871700150	B.25
SAIL-M5W-3P-1.5U	1873280150	B.25
SAIL-M5W-4P-1.5U	1873240150	B.25
SAIL-M8BG-3-1.5U	9457450150	B.4
SAIL-M8BG-3-1.5U	9457450150	B.19
SAIL-M8BG-3-1.5UGE	1093190150	B.19
SAIL-M8BG-3-1.5V	1927240150	B.4
SAIL-M8BG-3-1.5V	1927240150	B.19
SAIL-M8BG-3-10U	9457451000	B.4
SAIL-M8BG-3-10U	9457451000	B.4
SAIL-M8BG-3-3.0U	1927240300	B.4
SAIL-M8BG-3-3.0U	1927240300	B.4
SAIL-M8BG-3-5.0U	9457450500	B.4
SAIL-M8BG-3-5.0U	1927240500	B.4
SAIL-M8BG-3S1.5U	1906600150	B.21
SAIL-M8BG-4-1.5U	9457850150	B.5
SAIL-M8BG-4-1.5U	9457850150	B.19
SAIL-M8BG-4-1.5UGE	1093200150	B.19
SAIL-M8BG-4-1.5V	1927260150	B.5
SAIL-M8BG-4-1.5V	1927260150	B.19
SAIL-M8BG-4-10U	9457851000	B.5
SAIL-M8BG-4-10U	1927261000	B.5
SAIL-M8BG-4-3.0U	9457850300	B.5
SAIL-M8BG-4-3.0U	1927260300	B.5
SAIL-M8BG-4-5.0U	9457850500	B.5
SAIL-M8BG-4-5.0U	1927260500	B.5
SAIL-M8BG-4S1.5U	1906610150	B.21
SAIL-M8BG-4S1.5U-SB	1981910150	J.64
SAIL-M8BG-4S10U-SB	1981911000	J.64
SAIL-M8BG-4S3.0U-SB	1981910300	J.64
SAIL-M8BG-4S5.0U-SB	1981910500	J.64
SAIL-M8BGR-3-1.5U	1827020150	B.20
SAIL-M8BGR-3-1.5V	1948710150	B.20
SAIL-M8BGR-4-1.5U	1948530150	B.20
SAIL-M8BGR-4-1.5V	1948730150	B.20
SAIL-M8BW-3-1.5U	9457380150	B.5
SAIL-M8BW-3-1.5U	9457380150	B.19
SAIL-M8BW-3-1.5UGE	1093220150	B.19
SAIL-M8BW-3-1.5V	1927320150	B.5
SAIL-M8BW-3-1.5V	1927320150	B.19
SAIL-M8BW-3-10U	9457381000	B.5
SAIL-M8BW-3-10U	1927321000	B.5
SAIL-M8BW-3-3.0U	9457380300	B.5
SAIL-M8BW-3-3.0U	1927320300	B.5
SAIL-M8BW-3-5.0U	9457380500	B.5
SAIL-M8BW-3-5.0U	1927320500	B.5
SAIL-M8BW-3L1.5U	9457460150	B.5
SAIL-M8BW-3L1.5U	9457460150	B.23

Type	Order No.	Page
SAIL-M8BW-3L1.5UGE	1093210150	B.23
SAIL-M8BW-3L1.5V	1927350150	B.5
SAIL-M8BW-3L1.5V	1927350150	B.23
SAIL-M8BW-3L10U	9457461000	B.5
SAIL-M8BW-3L10U	1927351000	B.5
SAIL-M8BW-3L3.0U	9457460300	B.5
SAIL-M8BW-3L3.0U	1927350300	B.5
SAIL-M8BW-3L5.0U	9457460500	B.5
SAIL-M8BW-3L5.0U	1927350500	B.5
SAIL-M8BW-3S1.5U	1906620150	B.21
SAIL-M8BW-4-1.5U	9456150150	B.5
SAIL-M8BW-4-1.5U	9456150150	B.19
SAIL-M8BW-4-1.5UGE	1093240150	B.19
SAIL-M8BW-4-1.5V	1927340150	B.5
SAIL-M8BW-4-1.5V	1927340150	B.19
SAIL-M8BW-4-10U	9456151000	B.5
SAIL-M8BW-4-10U	1927341000	B.5
SAIL-M8BW-4-3.0U	9456150300	B.5
SAIL-M8BW-4-3.0U	1927340300	B.5
SAIL-M8BW-4-5.0U	9456150500	B.5
SAIL-M8BW-4-5.0U	1927340500	B.5
SAIL-M8BW-4L1.5U	1906400150	B.23
SAIL-M8BW-4L1.5UGE	1093230150	B.23
SAIL-M8BW-4L1.5V	1927360150	B.23
SAIL-M8BW-4S1.5U	1906630150	B.21
SAIL-M8BW-4S1.5U	1827010150	B.20
SAIL-M8BWR-3-1.5U	1948720150	B.20
SAIL-M8BWR-4-1.5U	1948540150	B.20
SAIL-M8BWR-4-1.5V	1948740150	B.20
SAIL-M8BWR-4-1.5V	1948590150	B.4
SAIL-M8G-3-1.5U	1824590150	B.19
SAIL-M8G-3-1.5V	1927230150	B.4
SAIL-M8G-3-1.5V	1927230150	B.19
SAIL-M8G-3-10U	1824591000	B.4
SAIL-M8G-3-10U	1927231000	B.4
SAIL-M8G-3-3.0U	1824590300	B.4
SAIL-M8G-3-3.0U	1927230300	B.4
SAIL-M8G-3-5.0U	1824590500	B.4
SAIL-M8G-3-5.0U	1927230500	B.4
SAIL-M8G-3S1.5U	1906560150	B.21
SAIL-M8G-4-1.5U	1906270150	B.4
SAIL-M8G-4-1.5U	1906270150	B.19
SAIL-M8G-4-1.5V	1927250150	B.4
SAIL-M8G-4-1.5V	1927250150	B.19
SAIL-M8G-4-10U	1906271000	B.4
SAIL-M8G-4-10U	1927251000	B.4
SAIL-M8G-4-3.0U	1927250300	B.4
SAIL-M8G-4-3.0U	1927250300	B.4
SAIL-M8G-4-5.0U	1906270500	B.4
SAIL-M8G-4-5.0U	1927250500	B.4
SAIL-M8G-4S0.1UJIE	1160820010	J.67
SAIL-M8G-4S0.1UJIE	1160820030	J.67
SAIL-M8G-4S0.5UJIE	1160820050	J.67
SAIL-M8G-4S1.0UJIE	1160820100	J.67
SAIL-M8G-4S1.5UJIE	1906570150	B.21
SAIL-M8G-4S10UJIE	1160821000	J.67
SAIL-M8G-4S2.0UJIE	1160820200	J.67
SAIL-M8G-4S3.0UJIE	1160820300	J.67
SAIL-M8G-4S4.0UJIE	1160820400	J.67
SAIL-M8G-4S5.0UJIE	1160820500	J.67
SAIL-M8G-4S7.5UJIE	1160820750	J.67
SAIL-M8GM12G-3-1.5U	1937950150	B.6
SAIL-M8GM12G-3-1.5V	1938230150	B.6
SAIL-M8GM12G-3-10U	1937951000	B.6
SAIL-M8GM12G-3-10U	1937951000	B.6
SAIL-M8GM12G-3-3.0U	1938230300	B.6
SAIL-M8GM12G-3-3.0U	1938230300	B.6
SAIL-M8GM12G-3-5.0U	1938230500	B.6
SAIL-M8GM12G-4-1.5U	1937980150	B.6
SAIL-M8GM12G-4-1.5U	1938260150	B.6
SAIL-M8GM12G-4-10U	1937981000	B.6
SAIL-M8GM12G-4-10U	1938261000	B.6
SAIL-M8GM12G-4-3.0U	1937980300	B.6
SAIL-M8GM12G-4-3.0U	1938260300	B.6
SAIL-M8GM12G-4-5.0U	1937980500	B.6
SAIL-M8GM12G-4-5.0U	1938260500	B.6
SAIL-M8GM12W-3-1.5U	1937960150	B.7
SAIL-M8GM12W-3-1.5V	193824015	

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SAIL-M8W-4-3.0U	1857560300	B.4	SAI-M23-BE-17	1170110000	F.19	SAH-M23-SE-16	1170080000	F.19	SAIS-4/9	1807340000	C.7
SAIL-M8W-4-3.0V	1927330300	B.4	SAI-M23-BE-17-10MM	1224350000	F.25	SAH-M23-SE-16-10MM	1224290000	F.25	SAIS-4/9-7/8"	1808840000	E.6
SAIL-M8W-4-5.0U	1857605000	B.4	SAI-M23-BE-17-10MM-G	1224680000	F.25	SAH-M23-SE-16-17MM	1224310000	F.25	SAIS-4/9-7/8"	1808840000	J.82
SAIL-M8W-4-5.0V	1927330500	B.4	SAI-M23-BE-17-17MM	1224360000	F.25	SAH-M23-SE-16-3.5MM	1224260000	F.25	SAIS-4/DC (0.75) M12	1852740000	C.5
SAIL-M8W-4S1.5U	1906590150	B.21	SAI-M23-BE-17-17MM-G	1224690000	F.25	SAH-M23-SE-16-F	1224240000	F.25	SAIS-4/DC (0.75) M12	1852740000	C.30
SAIL-M8WM12W-3-1.5U	1937970150	B.7	SAI-M23-BE-17-F	1224330000	F.25	SAH-M23-SE-17	1170100000	F.19	SAIS-4/DC M8 small	1781550000	C.29
SAIL-M8WM12W-3-1.5V	1938250150	B.7	SAI-M23-BE-17-F-G	1224660000	F.25	SAH-M23-SE-17-10MM	1224370000	F.25	SAIS-4/DC M12 small	1781550001	C.5
SAIL-M8WM12W-3-10U	1937971000	B.7	SAI-M23-BE-19	1170130000	F.19	SAH-M23-SE-17-10MM-G	1224710000	F.25	SAIS-4/DC M12 small	1781550001	C.29
SAIL-M8WM12W-3-10V	1938251000	B.7	SAI-M23-BE-19-10MM	1224420000	F.26	SAH-M23-SE-17-17MM	1224380000	F.25	SAIS-4/DC M8 small	1784060001	C.6
SAIL-M8WM12W-3-3.0U	1937970300	B.7	SAI-M23-BE-19-17MM	1224450000	F.26	SAH-M23-SE-17-17MM-G	1224720000	F.25	SAIS-4/DC M8 small	1784060001	C.31
SAIL-M8WM12W-3-3.0V	1938250300	B.7	SAI-M23-BE-19-F	1224400000	F.26	SAH-M23-SE-17-3.5MM	1224340000	F.25	SAIS-5/11-1.5	1353740000	G.12
SAIL-M8WM12W-3-5.0U	1937970500	B.7	SAI-M23-BE-19-F-PE	1224440000	F.26	SAH-M23-SE-17-3.5MM-G	1224670000	F.25	SAIS-5/11-7/8	1291970000	E.7
SAIL-M8WM12W-3-5.0V	1938250500	B.7	SAI-M23-BE-6	1170020000	F.18	SAH-M23-SE-17-F	1224320000	F.25	SAIS-5/7	9456940000	C.5
SAIL-M8WM12W-4-1.5U	1938000150	B.7	SAI-M23-BE-6-17MM	1224040000	F.23	SAH-M23-SE-17-F-G	1224650000	F.25	SAIS-5/7	9456940000	C.8
SAIL-M8WM12W-4-1.5V	1938280150	B.7	SAI-M23-BE-6-3.5MM	1224030000	F.23	SAH-M23-SE-19	1170120000	F.19	SAIS-5/7-(KV)	1921050000	C.9
SAIL-M8WM12W-4-10U	1938001000	B.7	SAI-M23-BE-6-F	1224010000	F.23	SAH-M23-SE-19-10MM	1224470000	F.26	SAIS-5/7-ZF	1906390000	C.5
SAIL-M8WM12W-4-10V	1938281000	B.7	SAI-M23-BE-7	1170040000	F.18	SAH-M23-SE-19-17MM	1224480000	F.26	SAIS-5/7-ZF	1906390000	C.11
SAIL-M8WM12W-4-3.0U	1938000300	B.7	SAI-M23-BE-7-10MM	1224100000	F.23	SAH-M23-SE-19-3.5MM	1224410000	F.26	SAIS-5/9	1807350000	C.5
SAIL-M8WM12W-4-3.0V	1938280300	B.7	SAI-M23-BE-7-17MM	1224110000	F.23	SAH-M23-SE-19-F	1224390000	F.26	SAIS-5/9	1807350000	C.8
SAIL-M8WM12W-4-5.0U	1938000500	B.7	SAI-M23-BE-7-F	1224080000	F.23	SAH-M23-SE-19-F-PE	1224430000	F.26	SAIS-5/9(KV)	1007080000	C.9
SAIL-M8WM12W-4-5.0V	1938280500	B.7	SAI-M23-BE-9	1170060000	F.18	SAH-M23-SE-19-F-PEV	1224460000	F.26	SAIS-5/9-7/8	1301220000	E.6
SAIL-M8WM8W-3-1.5U	1857670150	B.5	SAI-M23-BE-9-10MM	1224520000	F.24	SAH-M23-SE-6	1170000000	F.18	SAIS-5/9-2F	1044700000	C.11
SAIL-M8WM8W-3-1.5V	1857670150	B.38	SAI-M23-BE-9-10MM-G	1224750000	F.24	SAH-M23-SE-6-10MM	1224050000	F.23	SAIS-8/9	1836970000	C.5
SAIL-M8WM8W-3-1.5V	1927210150	B.5	SAI-M23-BE-9-17MM	1224530000	F.24	SAH-M23-SE-6-17MM	1224060000	F.23	SAIS-8/9	1836970000	C.8
SAIL-M8WM8W-3-1.5V	1927210150	B.38	SAI-M23-BE-9-17MM-G	1224760000	F.24	SAH-M23-SE-6-3.5MM	1224020000	F.23	SAI-SA-3/DC	9457720000	H.22
SAIL-M8WM8W-3-10U	1857671000	B.5	SAI-M23-BE-9-F	1224500000	F.24	SAH-M23-SE-6-F	1224000000	F.23	SAI-SA-4/DC	1766810000	H.22
SAIL-M8WM8W-3-10V	1927211000	B.5	SAI-M23-BE-9-F-G	1224740000	F.24	SAH-M23-SE-7	1170030000	F.18	SAISC-D-PN-6.5-5.5	1380610000	C.21
SAIL-M8WM8W-3-3.0U	1857670300	B.5	SAI-M23-BE-L4/4	1995810000	F.32	SAH-M23-SE-7-10MM	1224120000	F.23	SAISC-D-PN-6.5-5.5	1380610000	J.79
SAIL-M8WM8W-3-3.0U	1927210300	B.5	SAI-M23-BE-L6	1170370000	F.32	SAH-M23-SE-7-17MM	1224130000	F.23	SAISC-D-RR-6.6-5	1380560000	C.21
SAIL-M8WM8W-3-5.0U	1857670500	B.5	SAI-M23-GS-11/17	1299390000	F.12	SAH-M23-SE-7-3.5MM	1224090000	F.23	SAISC-D-RR-6.6-5	1380560000	J.79
SAIL-M8WM8W-3-5.0V	1927210500	B.5	SAI-M23-GS-7/12-VA	1452440000	F.15	SAH-M23-SE-7-F	1224070000	F.23	SAISC-D-RR-7.3-5	1380540000	C.21
SAIL-M8WM8W-4-1.5U	1857680150	B.5	SAI-M23-GS-L7/12	1995800000	F.30	SAH-M23-SE-9	1170050000	F.18	SAISC-D-RR-7.3-5	1380540000	J.79
SAIL-M8WM8W-4-1.5V	1857680150	B.38	SAI-M23-GS-L7/12-VA	1479410000	F.15	SAH-M23-SE-9-10MM	1224540000	F.24	SAISC-D-RR-7.3-5	1380540000	C.21
SAIL-M8WM8W-4-1.5V	1927220150	B.5	SAI-M23-GSW-L7/12	1170280000	F.30	SAH-M23-SE-9-10MM-G	1224770000	F.24	SAISC-D-RR-8-3-5	1380580000	J.79
SAIL-M8WM8W-4-1.5V	1927220150	B.38	SAI-M23-GSW-S-7/12	1169290000	F.12	SAH-M23-SE-9-17MM	1224550000	F.24	SAISC-D-RR-8-3-5	1380580000	C.20
SAIL-M8WM8W-4-10U	1857681000	B.5	SAI-M23-KBC-0.08/0.56	1995860000	F.20	SAH-M23-SE-9-17MM-G	1224780000	F.24	SAISC-M-4/8S-M12-D-COD	1467840000	J.78
SAIL-M8WM8W-4-10V	1927221000	B.5	SAI-M23-KBC-0.08/0.56	1995860000	M.14	SAH-M23-SE-9-3.5MM	1224510000	F.24	SAI-SCREWTY BOX	1939180000	M.6
SAIL-M8WM8W-4-3.0U	1857680300	B.5	SAI-M23-KBC-0.08/0.56	1995860000	M.15	SAH-M23-SE-9-F	1224490000	F.24	SAI-SCREWTY TOOL BOX	1939170000	M.6
SAIL-M8WM8W-4-3.0V	1927220300	B.5	SAI-M23-KBC-0.25/1.00	1995830000	F.33	SAH-M23-SE-9-F-G	1224730000	F.24	SAI-SK M12 MT	1802750000	C.37
SAIL-M8WM8W-4-5.0U	1857680500	B.5	SAI-M23-KBC-0.25/1.00	1995830000	M.14	SAH-M23-SE-L4/4	1170380000	F.32	SAI-SK M5	1855310000	C.37
SAIL-M8WM8W-4-5.0V	1927220500	B.5	SAI-M23-KBC-0.34/1.00	1170180000	F.20	SAH-M23-SE-L6	1170350000	F.32	SAI-SK M8	1802760000	C.37
SAIL-M8WM8WR-3-1.5U	1948490150	B.39	SAI-M23-KBC-0.34/1.00	1170180000	M.14	SAH-M23-SK-F	1416410000	F.34	SAI-SK Stecker M12	1781520000	C.37
SAIL-M8WM8WR-3-1.5V	1948670150	B.39	SAI-M23-KBC-0.34/1.00	1170180000	M.15	SAH-M23-SK-F-FS	1417920000	F.34	SAI-SK M12	9456050000	C.37
SAIL-M8WM8WR-4-1.5U	1948520150	B.39	SAI-M23-KBC-0.75/2.50	1995820000	F.33	SAH-M23-SK-F-M	1408270000	F.34	SAI-SK M12 BU	8925980000	C.37
SAIL-M8WM8WR-4-1.5V	1948700150	B.39	SAI-M23-KBC-0.75/2.50	1995820000	M.14	SAH-M23-SK-FP	1244790000	F.34	SAI-SK M12 DC	1744850000	C.37
SAIL-VSA-1.5U	9457710150	B.53	SAI-M23-KBC-1.00-1.5	1170210000	F.20	SAH-M23-SK-M-FS	1170810000	F.34	SAI-SK M12 DC	1794850000	H.23
SAIL-VSA-1.5U(0.5)	1845120150	B.57	SAI-M23-KBC-1.00-1.5	1170210000	M.14	SAH-M23-SK-M-P	1408280000	F.34	SAI-SK-M12-UNI	2330260000	C.37
SAIL-VSA-M12G-1.5U	9457040000	B.53	SAI-M23-KBC-1.5-14.56	1170210000	M.15	SAH-M23-SK-VA-AG	2125220000	F.35	SAISM 5/8S M12 5P B-COD	1784790000	C.5
SAIL-VSA-M12W-1.5U	1857690150	B.53	SAI-M23-KBC-1.5-14.56	1170230000	F.20	SAH-M23-SK-VA-AG-FS	2125950000	F.35	SAISM 5/8S M12 5P B-COD	1784790000	C.17
SAIL-VSA-M8G-3-1.5U	1099760150	B.59	SAI-M23-KBC-1.5-14.56	1170230000	M.14	SAH-M23-SK-VA-IG	2124610000	F.35	SAISM 5/8S M12 5P B-COD	1784790000	J.11
SAIL-VSAV-230V-1.5U	1549100150	B.54	SAI-M23-KBC-1.5-14.56	1170230000	M.15	SAH-M23-SK-VA-IG-FS	2124860000	F.35	SAISM-16-2/9	1127170000	C.32
SAIL-VSAV-3.0U	1525690300	B.54	SAI-M23-KBC-1.5-56-1.0	1170240000	F.20	SAH-M8-CLIP	1363800000	B.51	SAISM-16-4/9	1171970000	C.32
SAIL-VSB-1.5U	9457930150	B.55	SAI-M23-KBC-1.5-56-1.0	1170240000	M.14	SAH-MDC12D	1381830000	M.13	SAISM-16-5/9	1171990000	C.32
SAIL-VSB-180-1.5U(0.5)	1845140150	B.58	SAI-M23-KBC-2.0-75-2.5	1170260000	F.21	SAIP-M12BG-3-1.5U	1108730150	B.12	SAISM-16-6/9	1304390000	C.32
SAIL-VSB-1.5U	9456070150	B.55	SAI-M23-KBC-2.0-75-2.5	1170260000	F.21	SAIP-M12BG-4-1.5U	1108740150	B.12	SAISM-16-7/9	1118010000	C.32
SAIL-VSB-180-1.5U(0.5)	1845160150	B.58	SAI-M23-KBC-2.0-75-2.5	1170260000	M.14	SAIP-M12BG-5-1.5U	1108750150	B.12	SAISM-16-8/9	1304430000	C.32
SAIL-VSB-180-M8G-3-1.5U	1276450150	B.60	SAI-M23-KBC-2.0-75-2.5	1170260000	M.15	SAIP-M12BW-3-1.5U	1108770150	B.12	SAISM-2/12P-AN-1.0M	1906290100	F.36
SAIL-VSB-180-M12G-1.5U	9457780150	B.55	SAI-M23-KBC-L2.5-4.0	1170420000	F.33	SAIP-M12BW-4-1.5U	1108780150	B.12	SAISM-2/12P-ST-1.0M	1906290100	F.36
SAIL-VSB-180-M12W-1.5U	1857710150	B.55	SAI-M23-KBC-L2.5-4.0	1170420000	M.14	SAIP-M12BW-5-1.5U	1108790150	B.12	SAISM-2/19P-AN-1.0M	1818090100	F.36
SAIL-VSB-180-M8G-3-1.5U	1099770150	B.60	SAI-M23-KS-7/12	1169990000	F.12	SAIP-M12G-3-1.5U	1108800150	B.12	SAISM-2/19P-ST-1.0M	1818160100	F.36
SAIL-VSB-180-M12G-1.5U	9457680150	B.55	SAI-M23-KSC-0.25-1.0	1170390000	F.33	SAIP-M12G-4-1.5U	1108810150	B.12	SAISM-3/9S-M8	1467550000	C.24
SAIL-VSB-180-M12W-1.5U	1857700150	B.55	SAI-M23-KSC-0.25-1.0	1170390000	M.14	SAIP-M12G-5-1.5U	1108820150	B.12	SAISM-4/8S M12 4P D-ZF	1892120001	C.5
SAIL-VSB-M8G-3-0.15U	1271590015	B.60	SAI-M23-KSC-0.08/0.56	1170140000	F.20	SAIP-M12G-M8W-3-1.5U	1220260150	B.35	SAISM-4/8S M12 4P D-ZF	1892120001	C.19
SAIL-VSC-1.5U	9457920150	B.56	SAI-M23-KSC-0.08/0.56	1170140000	M.14	SAIP-M12W-3-1.5U	1108670150	B.12	SAISM-4/8S M12 4P D-COD	1892120000	C.5
SAIL-VSCD-1.5U	9456240150	B.56	SAI-M23-KSC-0.14/1.00	1170150000	F.20	SAIP-M12W-4-1.5U	1108680150	B.12	SAISM-4/8S M12 4P D-COD	1892120000	C.18
SAIL-VSCD-M12G-1.5U	9456710150	B.56	SAI-M23-KSC-0.14/1.00	1170150000	M.14	SAIP-M12W-5-1.5U	1108690150	B.12	SAISM-4/8S M12 4P D-COD	1892120000	J.76
SAIL-VSCD-M12W-1.5U	1857730150	B.56	SAI-M23-KSC-0.14/1.00	1170150000	M.15	SAIP-M8BG-3-1.5U	1382970150	B.22	SAISM-4/8S M12 5P A-COD	1191030000	C.5
SAIL-VSCD-M8G-3-1.5U	1916700150	B.61	SAI-M23-KSC-1.00-1.5	1170170000	F.20	SAIP-M8BG-4-1.5U	1382990150	B.22	SAISM-5/8S M12 5P A-COD	1784740000	C.5
SAIL-VSC-M12G-1.5U	9457400150	B.56	SAI-M23-KSC-1.00-1.5	1170170000	M.14	SAIP-M8BW-3-1.5U	1382980150	B.22	SAISM-5/8S M12 5P A-COD	1784740000	C.13
SAIL-VSC-M12W-1.5U	1857720150	B.56	SAI-M23-KSC-1.5-0.14-1	1170220000	F.20	SAIP-M8BW-3L1.5U	1383010150	B.24	SAISM-5/8S M12 5P A-COD	1784740000	J.37
SAIL-VSC-M8G-0.15U	1309680015	B.61	SAI-M23-KSC-1.5-0.14-1	1170220000	M.14	SAIP-M8BW-4-1.5U	1383000150	B.22	SAISM-5/8S M12 5P A-COD	1784740000	J.66
SAIL-ZW-3-1.5U	1964310150	B.18	SAI-M23-KSC-1.5-0.14-1	1170220000	M.15	SAIS 5/9-VA	1920700000	C.15	SAISM-5/8S M12 5P A-COD	1784740000	J.66
SAIL-ZW-M12BG-2/4-1.5U	1812550150	B.43	SAI-M23-KSC-1.5-0.14-1	1170220000	M.15	SAIS 5/9-VA	1920700000	H.27	SAISM-9/11S-M12	1118910000	C.14
SAIL-ZW-M12BG-3-1.5U	1005460150	B.43	SAI-M23-KSC-2.0-75-2.5	11702							

Type	Order No.	Page
SAISW-4/11-T-COD	1467880000	G.14
SAISW-4/7	9457290000	C.5
SAISW-4/7	9457290000	C.7
SAISW-4/7(KV)	1962620000	C.9
SAISW-4/8S-M12 4P D-ZF	1803930001	C.5
SAISW-4/8S-M12 4P D-ZF	1803930001	C.19
SAISW-4/8S-M12-4P D-COD	1160550000	J.76
SAISW-4/9	1807360000	C.5
SAISW-4/9	1807360000	C.7
SAISW-4/9-7/8"	1808830000	E.6
SAISW-4/9-7/8"	1808830000	J.82
SAISW-4DC M12	1812870000	C.30
SAISW-5/11-1.5	1467680000	G.12
SAISW-5/11-7/8	1291990000	E.7
SAISW-5/7	9456950000	C.5
SAISW-5/7	9456950000	C.8
SAISW-5/7(KV)	1962610000	C.9
SAISW-5/9(KV)	1007060000	C.9
SAISW-5/9-7/8	1291980000	E.6
SAISWC-M-4/8S-M12-D-COD	1467850000	C.20
SAISWC-M-4/8S-M12-D-COD	1467850000	J.78
SAISWDF-3-PE-M20-S-COD	1460290000	G.17
SAISWDF-4-M20	1383020000	G.16
SAISWDF-4-M20-T-COD	1392710000	G.17
SAISWDF-5-M20	1383030000	G.16
SAISWDF-8-M20	1383040000	G.16
SAISW-M-4/8 M12	1803930000	C.5
SAISW-M-4/8 M12	1803930000	C.13
SAISW-M-4/8 M12	1803930000	J.37
SAISW-M-5/8 M12	1803940000	C.5
SAISW-M-5/8 M12	1803940000	C.13
SAISW-M-5/8 M12	1803940000	J.37
SAISW-M-5/8 M12	1803940000	J.66
SAISW-M-5/8 M12 B-COD	1944570000	C.5
SAISW-M-5/8 M12 B-COD	1944570000	C.16
SAISW-M-5/8 M12 B-COD	1944570000	J.11
SAISW-M8-3P(TL)	1920990000	C.6
SAISW-M8-3P(TL)	1920990000	C.26
SAISW-M8-4P(TL)	1921000000	C.6
SAISW-M8-4P(TL)	1921000000	C.26
SAIS-ZW-5	9457540000	C.12
SAIS-ZWW	1837560000	C.12
SAIT-5-M12/M12 B-COD	1057940000	C.35
SAIT-5-M12/M12 B-COD	1057940000	C.35
SAIT-5S-PARA	1009370000	C.35
SAIT-TMCCD	1381710000	M.12
SAIT-TMCKG	1381670000	M.13
SAIT-TMCP4	1381680000	M.13
SAIT-TMCPD	1381700000	M.13
SAIT-TMCSK	1381690000	M.13
SAIT-TS35 MF	1917400000	H.41
SAIV-M12BG-2/4-1.5U	1939410150	B.13
SAIV-M12BG-4-1.5U	9457950150	B.13
SAIV-M12BW-2/4-1.5U	1939370150	B.13
SAIV-M12BW-4-1.5U	9457960150	B.13
SAI-WDF 5P B M12 K	2485310000	C.36
SAI-WDF 5P M12 K	2427060000	C.36
SAI-Y-4-4/2-4 M12/8	1783420000	C.33
SAI-Y-4S-M12/M12	1060730000	C.33
SAI-Y-5S B2-4 2M12	1783410000	C.33
SAI-Y-5S M12/M12	1826880000	C.33
SAI-Y-5S M12/M12 2Bo	1881710000	C.34
SAI-Y-5S PARA 2M12	1783430000	C.33
SAI-Y-5S PARA 2M12	1783430000	K.7
SAI-Y-7/8 3P	1413920000	E.12
SAI-Y-7/8 4P	1413930000	E.12
SAI-Y-7/8 5P	1413940000	E.12
Screwty-M12	1900000000	J.68
Screwty-M12	1900000000	J.68
Screwty-M12	1900000000	J.69
Screwty-M12	1900000000	J.69
Screwty-M12	1900000000	M.5
Screwty-M12 F	1900020000	M.5
Screwty M12 KO o. SD	1900100000	M.5
Screwty M12f KO o. SD	1900120000	M.5
Screwty M23	1981560000	M.5
Screwty-M8	1900010000	M.5
Screwty-M8 F	1900030000	M.5
Screwty M8 KO o. SD	1900110000	M.5
Screwty M8f KO o. SD	1900130000	M.5
Screwty Set	1910000000	J.68
Screwty Set	1910000000	J.68
Screwty Set	1910000000	J.69
Screwty Set	1910000000	J.69
Screwty Set	1910000000	M.5
Screwty Set -DM	1920000000	J.68
Screwty Set -DM	1920000000	J.68
Screwty Set -DM	1920000000	J.69
Screwty Set -DM	1920000000	J.69
Screwty Set -DM	1920000000	M.5
SCREWTY SW10	1254640000	M.5
SCREWTY SW13	1254650000	M.5
SCREWTY SW15	1290830000	M.5
SCREWTY SW17	1254660000	M.5
SCREWTY SW18	1254670000	M.5
SCREWTY SW19	1254680000	M.5
SCREWTY SW9	1254630000	M.5
Screwty-M12 F-DM	1900021000	M.5
Screwty-M12-DM	1900001000	H.23

Type	Order No.	Page
Screwty-M12-DM	1900001000	J.68
Screwty-M12-DM	1900001000	J.68
Screwty-M12-DM	1900001000	J.69
Screwty-M12-DM	1900001000	J.69
Screwty-M12-DM	1900001000	K.7
Screwty-M12-DM	1900001000	M.5
Screwty-M8 F-DM	1900031000	M.5
Screwty-M8-DM	1900011000	M.5
SFC 0/12 MC NE BL	1813170000	M.17
SFC 0/12 MC NE GE	1813160000	M.17
SFC 0/12 MC NE RT	1813150000	M.17
SFC 0/12 MC NE WS	1813130000	M.17
SFC 0/12 MC SDR	1813180000	M.17
SFC 0/21 MC NE BL	1813220000	M.17
SFC 0/21 MC NE GE	1813210000	M.17
SFC 0/21 MC NE RT	1813200000	M.17
SFC 0/21 MC NE WS	1813190000	M.17
SFC 0/21 MC SDR	1813230000	M.17
SFC 0/30 MC NE BL	1813270000	M.17
SFC 0/30 MC NE GE	1813260000	M.17
SFC 0/30 MC NE RT	1813250000	M.17
SFC 0/30 MC NE WS	1813240000	M.17
SFC 0/30 MC SDR	1813280000	M.17
SFC 1/12 MC NE BL	1747320002	M.17
SFC 1/12 MC NE GE	1747320004	M.17
SFC 1/12 MC NE RT	1747320003	M.17
SFC 1/12 MC NE WS	1747320001	M.17
SFC 1/12 MC SDR	1752720000	M.17
SFC 1/21 MC NE BL	1779080002	M.17
SFC 1/21 MC NE GE	1779080004	M.17
SFC 1/21 MC NE RT	1779080003	M.17
SFC 1/21 MC NE WS	1779080001	M.17
SFC 1/21 MC SDR	1779090000	M.17
SFC 1/30 MC NE BL	1805720000	M.17
SFC 1/30 MC NE GE	1805730000	M.17
SFC 1/30 MC NE RT	1805740000	M.17
SFC 1/30 MC NE WS	1805760000	M.17
SFC 1/30 MC SDR	1805750000	M.17
SFC 2.5/12 MC NE BL	1062030000	M.17
SFC 2.5/12 MC NE GE	1062010000	M.17
SFC 2.5/12 MC NE RT	1062020000	M.17
SFC 2.5/12 MC NE WS	1062000000	M.17
SFC 2.5/12 MC SDR	1062040000	M.17
SFC 2.5/21 MC NE BL	1062090000	M.17
SFC 2.5/21 MC NE GE	1062070000	M.17
SFC 2.5/21 MC NE RT	1062080000	M.17
SFC 2.5/21 MC NE WS	1062050000	M.17
SFC 2.5/21 MC SDR	1062110000	M.17
SFC 2/12 MC NE BL	1758320002	M.17
SFC 2/12 MC NE GE	1758320004	M.17
SFC 2/12 MC NE RT	1758320003	M.17
SFC 2/12 MC NE WS	1758320001	M.17
SFC 2/12 MC SDR	1763480000	M.17
SFC 2/21 MC NE BL	1805770000	M.17
SFC 2/21 MC NE GE	1805780000	M.17
SFC 2/21 MC NE RT	1805790000	M.17
SFC 2/21 MC NE WS	1805810000	M.17
SFC 2/21 MC SDR	1805800000	M.17
SFC 2/30 MC NE BL	1805820000	M.17
SFC 2/30 MC NE GE	1805830000	M.17
SFC 2/30 MC NE RT	1805850000	M.17
SFC 2/30 MC NE WS	1805870000	M.17
SFC 2/30 MC SDR	1805860000	M.17
SFC 3/12 MC NE BL	1025250000	M.17
SFC 3/12 MC NE GE	1025230000	M.17
SFC 3/12 MC NE RT	1025240000	M.17
SFC 3/12 MC NE WS	1025220000	M.17
SFC 3/12 MC SDR	1025550000	M.17
SFC 3/21 MC NE BL	1025300000	M.17
SFC 3/21 MC NE GE	1025270000	M.17
SFC 3/21 MC NE RT	1025290000	M.17
SFC 3/21 MC NE WS	1025260000	M.17
SFC 3/21 MC SDR	1025560000	M.17
SFC 3/30 MC NE BL	1025340000	M.17
SFC 3/30 MC NE GE	1025320000	M.17
SFC 3/30 MC NE RT	1025330000	M.17
SFC 3/30 MC NE WS	1025310000	M.17
SFC 3/30 MC SDR	1025570000	M.17
STRIPAX	9005000000	M.9
STRIPAX ZERT	9017330000	M.9
STRIPPER 6-16 RED-LINE	9203110000	M.8

T

THM MMP	2430920000	M.23
THM MMP CASE	2457760000	M.23
THM MMP CUTTER	1331600000	M.23
THM MMP EXT RH	1302920000	M.23
THM MMP PERFORATOR	1416330000	M.23
TM 203/18 VO	1798480000	M.18
TM 4/12 HF/HB	1719840000	J.70
TM 4/12 HF/HB	1719840000	J.70
TM 4/12 HF/HB	1719840000	J.71
TM 4/12 HF/HB	1719840000	J.74
TM 4/12 HF/HB	1719840000	J.74
TM 4/12 HF/HB	1719840000	J.75
TM 4/18 HF/HB	1719850000	J.70
TM 4/18 HF/HB	1719850000	J.70
TM 4/18 HF/HB	1719850000	J.71

Type	Order No.	Page
TM 4/18 HF/HB	1719850000	J.74
TM 4/18 HF/HB	1719850000	J.74
TM 4/18 HF/HB	1719850000	J.75
TM 4/18 HF/HB	1719850000	M.18
TMH 12 MC NE GE	1718411687	J.68
TMH 12 MC NE GE	1718411687	J.68
TMH 12 MC NE GE	1718411687	J.69
TMH 12 MC NE GE	1718411687	J.69
TMH 12 MC NE GE	1718411687	J.70
TMH 12 MC NE GE	1718411687	J.70
TMH 12 MC NE GE	1718411687	J.71
TMH 12 MC NE GE	1718411687	J.72
TMH 12 MC NE GE	1718411687	J.72
TMH 12 MC NE GE	1718411687	J.73
TMH 12 MC NE GE	1718411687	J.74
TMH 12 MC NE GE	1718411687	J.74
TMH 12 MC NE GE	1718411687	J.75
TMH 18 MC NE GE	1718431687	J.68
TMH 18 MC NE GE	1718431687	J.68
TMH 18 MC NE GE	1718431687	J.69
TMH 18 MC NE GE	1718431687	J.69
TMH 18 MC NE GE	1718431687	J.70
TMH 18 MC NE GE	1718431687	J.70
TMH 18 MC NE GE	1718431687	J.71
TMH 18 MC NE GE	1718431687	J.72
TMH 18 MC NE GE	1718431687	J.72
TMH 18 MC NE GE	1718431687	J.73
TMH 18 MC NE GE	1718431687	J.74
TMH 18 MC NE GE	1718431687	J.74
TMH 18 MC NE GE	1718431687	J.75
TMH 18 MC NE GE	1718431687	M.18
TMH 18 MC NE WS	1718431044	M.18

V

VG M16- MS 1/EMV	1909500000	J.83
VG M16-1/K68	1909860000	J.83
VG M16-1/MS68	1909910000	J.83
VP M16-EXE SW	1737070000	J.83
VP M16-MS65	1777730000	J.83

W

WIL-STANDARD	2436210000	L.4
WK-1/4(Screwty)	1862200000	M.5
WS 10/5 MC NE WS	1635000000	M.24
WS 10/5 MC SDR	1635010000	M.24
WS 15/5 MC NE WS	1609880000	M.24
WS 15/5 MC SDR	1609890000	M.24

Order No.	Type	Page
-----------	------	------

100000000

1004310150	SAIL-M12GM12W-4.2L1.5T	B.32
1004320150	SAIL-M12GM12W-3L1.5T	B.32
1004330150	SAIL-M12BW-3L1.5T	B.16
1005270150	SAIL-ZW-M12BW-3-1.5U	B.43
1005460150	SAIL-ZW-M12BG-3-1.5U	B.43
1007000150	SAIL-M12BW-4.2L1.5T	B.16
1007060000	SAISW-5/9(KV)	C.9
1007070000	SAIBW-5/9(KV)	C.9
1007080000	SAIS-5/9(KV)	C.9
1007090000	SAIB-5/9(KV)	C.9
1009370000	SAI-T-5S-PARA	C.35

101000000

1010060000	SAISM-M8-3P-(IF)	C.6
1010060000	SAISM-M8-3P-(IF)	C.6
1010070000	SAISM-M8-4P-(IF)	C.25
1010070000	SAISM-M8-4P-(IF)	C.25
1010080000	SAIBM-M8-3P-(IF)	C.25
1010080000	SAIBM-M8-3P-(IF)	C.25
1010090000	SAIBM-M8-4P-(IF)	C.6
1010090000	SAIBM-M8-4P-(IF)	C.6
1010840015	IE-C5DB4RE0015MCSXXX-X	J.73
1010840030	IE-C5DB4RE0030MCSXXX-X	J.73
1010840050	IE-C5DB4RE0050MCSXXX-X	J.73
1010840100	IE-C5DB4RE0100MCSXXX-X	J.73
1010850015	IE-C5DB4RE0015MCSMCS-E	J.72
1010850030	IE-C5DB4RE0030MCSMCS-E	J.72
1010850050	IE-C5DB4RE0050MCSMCS-E	J.72
1010850100	IE-C5DB4RE0100MCSMCS-E	J.72
1011970150	SAIL-M12GM12W-2G-5-1.5T	B.29
1011990150	SAIL-M12GM12W-6-1.5T	B.29

102000000

1020930150	SAIL-M12GM12W-4.3LW1.5T	B.32
1021280000	SAISW-3/7	C.5
1021280000	SAISW-3/7	C.5
1021280000	SAISW-3/7	C.7
1021290000	SAISW-3/9	C.7
1021310000	SAIBW-3/7	C.5
1021310000	SAIBW-3/7	C.5
1021310000	SAIBW-3/7	C.7
1021310000	SAIBW-3/7	C.7
1021470000	SAIS-3/7	C.5
1021470000	SAIS-3/7	C.7
1021480000	SAIS-3/9	C.5
1021480000	SAIS-3/9	C.7
1021490000	SAIB-3/7	C.5
1021490000	SAIB-3/7	C.7
1021510000	SAIB-3/9	C.5
1021510000	SAIB-3/9	C.7
1021650150	SAIL-M12G-5-1.5T	B.11
1021660150	SAIL-M12W-5-1.5T	B.11
1021670150	SAIL-M12BG-5-1.5T	B.11
1021690150	SAIL-M12BW-5-1.5T	B.11
1021710150	SAIL-M12GM12G-3-1.5T	B.29
1021720150	SAIL-M12GM12W-3-1.5T	B.29
1021730150	SAIL-M12GM12G-4-1.5T	B.29
1021740150	SAIL-M12GM12W-4-1.5T	B.29
1021750150	SAIL-M12G-3-1.5T	B.11
1021760150	SAIL-M12W-3-1.5T	B.11
1021770150	SAIL-M12G-4-1.5T	B.11
1021790150	SAIL-M12W-4-1.5T	B.11
1022960000	SAIH-5x0,34(PUR)	B.64
1024140000	PJ PRO TNAW	M.21
1025220000	SFC 3/12 MC NE WS	M.17
1025230000	SFC 3/12 MC NE GE	M.17
1025240000	SFC 3/12 MC NE RT	M.17
1025250000	SFC 3/12 MC NE BL	M.17
1025260000	SFC 3/21 MC NE WS	M.17
1025270000	SFC 3/21 MC NE GE	M.17
1025290000	SFC 3/21 MC NE RT	M.17
1025300000	SFC 3/21 MC NE BL	M.17
1025310000	SFC 3/30 MC NE WS	M.17
1025320000	SFC 3/30 MC NE GE	M.17
1025330000	SFC 3/30 MC NE RT	M.17
1025340000	SFC 3/30 MC NE BL	M.17
1025550000	SFC 3/12 MC SDR	M.17
1025560000	SFC 3/21 MC SDR	M.17
1025570000	SFC 3/30 MC SDR	M.17
1025940015	IE-C5DD4UG0015MCSXXX-X	J.69
1025940030	IE-C5DD4UG0030MCSXXX-X	J.69
1025940100	IE-C5DD4UG0100MCSXXX-X	J.69
1025950005	IE-C5DD4UG0005MCSMCS-E	J.68
1025950015	IE-C5DD4UG0015MCSMCS-E	J.68
1025950030	IE-C5DD4UG0030MCSMCS-E	J.68
1025950050	IE-C5DD4UG0050MCSMCS-E	J.68
1025950100	IE-C5DD4UG0100MCSMCS-E	J.68
1026090000	SAI-ASI T FF small	J.61
1027040000	PJ PRO TNK INK K	M.21
1027050000	PJ PRO TNK INK C	M.21
1027060000	PJ PRO TNK INK M	M.21
1027070000	PJ PRO TNK INK Y	M.21
1027110000	PJ PRO TINTENSET FARBE	M.21

Order No.	Type	Page
-----------	------	------

104000000

1044470010	IE-C5DD4UG0010MCSA20-E	J.69
1044470015	IE-C5DD4UG0015MCSA20-E	J.69
1044470030	IE-C5DD4UG0030MCSA20-E	J.69
1044470050	IE-C5DD4UG0050MCSA20-E	J.69
1044470100	IE-C5DD4UG0100MCSA20-E	J.69
1044700000	SAIS-5/9-ZF	C.11
1044710000	SAIB-5/9-ZF	C.11

105000000

1051760000	SAI-4-S 3P M8 L OL	H.48
1057720000	SAI-6-S 3P M8 L SL	H.6
1057720000	SAI-6-S 3P M8 L SL	H.50
1057740150	SAIL-M12BG-3B-1.5U	B.49
1057750150	SAIL-M12BG-4B-1.5U	B.49
1057760150	SAIL-M12BW-5B-1.5U	B.49
1057770150	SAIL-M12G-3B-1.5U	B.49
1057770150	SAIL-M12G-4B-1.5U	B.49
1057790150	SAIL-M12G-5B-1.5U	B.49
1057800150	SAIL-M12W-3B-1.5U	B.49
1057810150	SAIL-M12W-4B-1.5U	B.49
1057820150	SAIL-M12W-5B-1.5U	B.49
1057830150	SAIL-M12GM12G-3B-1.5U	B.50
1057840150	SAIL-M12GM12G-4B-1.5U	B.50
1057850150	SAIL-M12GM12G-5B-1.5U	B.50
1057870150	SAIL-M12WM12G-5B-1.5U	B.50
1057880150	SAIL-M12WM12G-4B-1.5U	B.50
1057890150	SAIL-M12WM12G-3B-1.5U	B.50
1057900150	SAIL-M12GM12W-3B-1.5U	B.50
1057910150	SAIL-M12GM12W-4B-1.5U	B.50
1057920150	SAIL-M12GM12W-5B-1.5U	B.50
1057940000	SAI-T-5-M12/M12 B-COD	C.35
1057940000	SAI-T-5-M12/M12 B-COD	C.35
1058490150	SAIL-M12GM12G-3S1.5U	B.30
1058500150	SAIL-M12GM12G-4S1.5U	B.30
1058510150	SAIL-M12GM12G-5S1.5U	B.30
1058540150	SAIL-M12G-PB-1.5E	J.4
1058540150	SAIL-M12G-PB-1.5E	J.4
1058570150	SAIL-M12GM12G-PB-1.5E	J.5
1058630000	SAIH-CD-2x0,34/2x0,22-PUR	J.65
1059330015	IE-C5DD4UG0015MSSMCS-E	J.68
1059330030	IE-C5DD4UG0030MSSMCS-E	J.68
1059330050	IE-C5DD4UG0050MSSMCS-E	J.68
1059330100	IE-C5DD4UG0100MSSMCS-E	J.68
1059340015	IE-C5DB4RE0015MSSMCS-E	J.72
1059340030	IE-C5DB4RE0030MSSMCS-E	J.72
1059340050	IE-C5DB4RE0050MSSMCS-E	J.72
1059340100	IE-C5DB4RE0100MSSMCS-E	J.72
1059430000	SAI-M-4P M12 DIP	H.14
1059470150	SAIL-M12GM12W-3S1.5U	B.30
1059480150	SAIL-M12GM12W-4S1.5U	B.30
1059640150	SAIL-M12GM12W-5S1.5U	B.30
1059650150	SAIL-M12W-4S1.5U	B.17
1059720150	SAIL-M12WM12W-3S1.5U	B.30
1059730150	SAIL-M12WM12W-4S1.5U	B.30
1059740150	SAIL-M12WM12W-5S1.5U	B.30
1059750015	IE-C5DD4UG0015MCAXXX-X	J.71
1059750030	IE-C5DD4UG0030MCAXXX-X	J.71
1059750050	IE-C5DD4UG0050MCAXXX-X	J.71
1059750100	IE-C5DD4UG0100MCAXXX-X	J.71
1059770015	IE-C5DD4UG0015MCSMCA-E	J.70
1059770030	IE-C5DD4UG0030MCSMCA-E	J.70
1059770050	IE-C5DD4UG0050MCSMCA-E	J.70
1059770100	IE-C5DD4UG0100MCSMCA-E	J.70
1059890015	IE-C5DD4UG0015MCA MCA-E	J.70
1059890030	IE-C5DD4UG0030MCA MCA-E	J.70
1059890050	IE-C5DD4UG0050MCA MCA-E	J.70
1059890100	IE-C5DD4UG0100MCA MCA-E	J.70
1059900015	IE-C5DB4RE0015MCA MCA-E	J.75
1059900030	IE-C5DB4RE0030MCA MCA-E	J.75
1059900050	IE-C5DB4RE0050MCA MCA-E	J.75
1059900100	IE-C5DB4RE0100MCA MCA-E	J.75
1059940015	IE-C5DB4RE0015MCSMCA-E	J.74
1059940030	IE-C5DB4RE0030MCSMCA-E	J.74
1059940050	IE-C5DB4RE0050MCSMCA-E	J.74
1059940100	IE-C5DB4RE0100MCSMCA-E	J.74
1059970015	IE-C5DB4RE0015MCA MCA-E	J.74
1059970030	IE-C5DB4RE0030MCA MCA-E	J.74
1059970050	IE-C5DB4RE0050MCA MCA-E	J.74
1059970100	IE-C5DB4RE0100MCA MCA-E	J.74

106000000

1060110150	SAIL-M12G-CD-1.5B	J.62
1060120150	SAIL-M12BG-CD-1.5B	J.62
1060130150	SAIL-M12GM12G-CD-1.5B	J.63
1060730000	SAI-Y-4S-M12/M12	C.33
1061880150	SAIL-M12BG-5B-1.5U	B.49
1061890150	SAIL-M12BW-3B-1.5U	B.49
1061900150	SAIL-M12BW-4B-1.5U	B.49
1061910150	SAIL-M12WM12W-3B-1.5U	B.50
1061920150	SAIL-M12WM12W-4B-1.5U	B.50
1061930150	SAIL-M12WM12W-5B-1.5U	B.50
1061970150	SAIL-M12W-PB-1.5D	J.4
1061980150	SAIL-M12BW-CD-1.5A	J.62
1061990150	SAIL-M12GM12W-CD-1.5A	J.63
1062000000	SFC 2.5/12 MC NE WS	M.17

Order No.	Type	Page
-----------	------	------

1062010000	SFC 2.5/12 MC NE GE	M.17
1062020000	SFC 2.5/12 MC NE RT	M.17
1062030000	SFC 2.5/12 MC NE BL	M.17
1062040000	SFC 2.5/12 MC SDR	M.17
1062050000	SFC 2.5/21 MC NE WS	M.17
1062070000	SFC 2.5/21 MC NE GE	M.17
1062080000	SFC 2.5/21 MC NE RT	M.17
1062090000	SFC 2.5/21 MC NE BL	M.17
1062110000	SFC 2.5/21 MC SDR	M.17
1062150150	SAIL-M12WM12W-CD-1.5A	J.63
1062170150	SAIL-M12W-CD-1.5B	J.62
1062180150	SAIL-M12BW-CD-1.5B	J.62
1062190150	SAIL-M12GM12W-CD-1.5B	J.63
1062210150	SAIL-M12WM12W-CD-1.5B	J.63
1062220150	SAIL-M12W-CD-1.5A	J.62
1062300150	SAIL-M12BW-PB-1.5D	J.4
1062310150	SAIL-M12GM12W-PB-1.5D	J.5
1062330150	SAIL-M12WM12W-PB-1.5D	J.5
1062340150	SAIL-M12W-PB-1.5E	J.4
1062370150	SAIL-M12BW-PB-1.5E	J.4
1062380150	SAIL-M12GM12W-PB-1.5E	J.5
1062400150	SAIL-M12WM12W-PB-1.5E	J.5

107000000

1070630000	SAI-4-F 5P M12 L 5M	H.6
1070630000	SAI-4-F 5P M12 L 5M	H.6
1070640000	SAI-4-F 5P M12 L 10M	H.9
1070640000	SAI-4-F 5P M12 L 10M	H.9
1070650000	SAI-4-F 4P M12 L 5M	H.9
1070660000	SAI-4-F 4P M12 L 10M	H.9
1070660000	SAI-4-F 4P M12 L 10M	H.6
1075390100	FBCEX PA M12 M-FMA 1M	J.35
1075410100	FBCEX PA M12 M-FA 1M	J.35
1075450100	FBCEX PA M12 M-FA 1M	J.35
1075460100	FBC PA M12 M-FA 1M	J.35
1075620100	FBC PA M12 M-FMA 1M	J.35
1076520100	FBCEX PA M12 FMA 1M	J.34
1076530100	FBC PA M12 FMA 1M	J.34
1076540100	FBC PA M12 MA 1M	J.34
1076550100	FBC PA M12 MA-FA 1M	J.35
1076580100	FBCEX PA M12 MA 1M	J.34
1077501500	SAIL-M12G-4-1.5UGE	B.11
1078720000	SAIE-M8S-4-0.5U-PP-M8	C.43
1078730000	SAIE-M8S-3-0.5U-PP-M8	C.43

109000000

1092910150	SAIL-M12BG-3-1.5UGE	B.11
1092920150	SAIL-M12BG-4-1.5UGE	B.11
1092930150	SAIL-M12BG-5-1.5UGE	B.11
1092940150	SAIL-M12BW-3-1.5UGE	B.11
1092950150	SAIL-M12BW-4-1.5UGE	B.16
1092960150	SAIL-M12BW-4-1.5UGE	B.11
1092970150	SAIL-M12BW-5-1.5UGE	B.11
1092980150	SAIL-M12G-3-1.5UGE	B.11
1092990150	SAIL-M12G-5-1.5UGE	B.11
1093000150	SAIL-M12GM12G-2/4-1.5UGE	B.31
1093010150	SAIL-M12GM12G-3-1.5UGE	B.29
1093020150	SAIL-M12GM12G-4-1.5UGE	B.29
1093030150	SAIL-M12GM12G-5-1.5UGE	B.29
1093040150	SAIL-M12GM12W-2/4-1.5UGE	B.31
1093050150	SAIL-M12GM12W-3-1.5UGE	B.29
1093060150	SAIL-M12GM12W-4-3LW1.5UGE	B.32
1093070150	SAIL-M12GM12W-4-1.5UGE	B.29
1093080150	SAIL-M12GM12W-5-1.5UGE	B.29
1093110150	SAIL-M12GM8W-3L1.5UGE	B.36
1093130150	SAIL-M12GM8W-4L1.5UGE	B.36
1093150150	SAIL-M12GM8W-3-1.5UGE	B.34
1093160150	SAIL-M12W-3-1.5UGE	B.11
1093170150	SAIL-M12W-4-1.5UGE	B.11
1093180150	SAIL-M12W-5-1.5UGE	B.11
1093190150	SAIL-M8BG-3-1.5UGE	B.19
1093200150	SAIL-M8BG-4-1.5UGE	B.19
1093210150	SAIL-M8BW-3L1.5UGE	B.23

Order No.	Type	Page
1170220000	SAI-M23-KSC-1.5-0.14-1	M.14
1170220000	SAI-M23-KSC-1.5-0.14-1	M.15
1170230000	SAI-M23-KBC-1.5-14-56	F.20
1170230000	SAI-M23-KBC-1.5-14-56	M.14
1170230000	SAI-M23-KBC-1.5-14-56	M.15
1170240000	SAI-M23-KBC-1.5-56-1.0	F.20
1170240000	SAI-M23-KBC-1.5-56-1.0	M.14
1170240000	SAI-M23-KBC-1.5-56-1.0	M.15
1170250000	SAI-M23-KSC-2.0.75-2.5	F.21
1170250000	SAI-M23-KSC-2.0.75-2.5	M.14
1170250000	SAI-M23-KSC-2.0.75-2.5	M.15
1170260000	SAI-M23-KBC-2.0.75-2.5	F.21
1170260000	SAI-M23-KBC-2.0.75-2.5	M.14
1170260000	SAI-M23-KBC-2.0.75-2.5	M.15
1170270000	SAI-M23-KS-L7/12	F.30
1170280000	SAI-M23-GSW-L7/12	F.30
1170290000	SAI-M23-KSW-L7/12	F.30
1170300000	SAIE-M23-LVW	F.31
1170310000	SAIE-M23-LRM	F.31
1170320000	SAIE-M23-LEM	F.31
1170330000	SAIE-M23-LW	F.31
1170340000	SAIE-M23-LHW	F.31
1170350000	SAI-M23-SE-L6	F.32
1170370000	SAI-M23-BE-L6	F.32
1170380000	SAI-M23-SE-L4/4	F.32
1170390000	SAI-M23-KSC-0.25-1.0	F.33
1170390000	SAI-M23-KSC-0.25-1.0	M.14
1170400000	SAI-M23-KSC-L-0.75-2.5	F.33
1170400000	SAI-M23-KSC-L-0.75-2.5	M.14
1170410000	SAI-M23-KSCL-2.5-4.0	F.33
1170410000	SAI-M23-KSCL-2.5-4.0	M.14
1170420000	SAI-M23-KBC-L2.5-4.0	F.33
1170420000	SAI-M23-KBC-L2.5-4.0	M.14
1170810000	SAI-M23-SK-MFS	F.34
1173220000	PB-DP SUB-D ZF35TERM	J.14
1173240000	PB-DP SUB-D ZF35TERM PS	J.14

1190000000

1191020000	SAIB-5/6S M12 5P A-COD	C.5
1191020000	SAIB-5/6S M12 5P A-COD	C.13
1191020000	SAIB-5/6S M12 5P A-COD	J.37
1191030000	SAISM5/6S M12 5P A-COD	C.5

1200000000

1201210200	SAIL-M8GRJ45-4S2.0UIE	J.67
1201210500	SAIL-M8GRJ45-4S5.0UIE	J.67
1201210750	SAIL-M8GRJ45-4S7.5UIE	J.67
1201211000	SAIL-M8GRJ45-4S10UIE	J.67
1203840000	SAI M23 CRIMPING TOOL 1	M.14
1203960000	SAI M23 CRIMPING TOOL 2	M.15

1220000000

1220620150	SAIP-M12GM8W-3-1.5U	B.35
1222270000	SAIE-M12B-S52.0U HW	C.45
1222270050	SAIE-M12B-S50.5U HW	C.45
1223650000	SAIE-M12B-S52.0U HW	C.45
1223650050	SAIE-M12B-S50.5U HW	C.45
1224000000	SAI-M23-SE-6F	F.23
1224010000	SAI-M23-BE-6F	F.23
1224020000	SAI-M23-SE-6-3.5MM	F.23
1224030000	SAI-M23-BE-6-3.5MM	F.23
1224040000	SAI-M23-BE-6-17MM	F.23
1224050000	SAI-M23-SE-6-10MM	F.23
1224060000	SAI-M23-SE-6-17MM	F.23
1224070000	SAI-M23-SE-7F	F.23
1224080000	SAI-M23-BE-7F	F.23
1224090000	SAI-M23-SE-7-3.5MM	F.23
1224100000	SAI-M23-BE-7-10MM	F.23
1224110000	SAI-M23-BE-7-17MM	F.23
1224120000	SAI-M23-SE-7-10MM	F.23
1224130000	SAI-M23-SE-7-17MM	F.23
1224140000	SAI-M23-SE-12F	F.24
1224150000	SAI-M23-BE-12F	F.24
1224160000	SAI-M23-SE-12-3.5MM	F.24
1224170000	SAI-M23-BE-12-10MM	F.24
1224180000	SAI-M23-SE-12F-PE	F.24
1224190000	SAI-M23-BE-12F-PE	F.24
1224210000	SAI-M23-BE-12-17MM	F.24
1224220000	SAI-M23-SE-12-10MM	F.24
1224230000	SAI-M23-SE-12-17MM	F.24
1224240000	SAI-M23-SE-16F	F.25
1224250000	SAI-M23-BE-16F	F.25
1224260000	SAI-M23-SE-16-3.5MM	F.25
1224270000	SAI-M23-BE-16-10MM	F.25
1224280000	SAI-M23-BE-16-17MM	F.25
1224290000	SAI-M23-SE-16-10MM	F.25
1224310000	SAI-M23-SE-16-17MM	F.25
1224320000	SAI-M23-SE-17F	F.25
1224330000	SAI-M23-BE-17F	F.25
1224340000	SAI-M23-SE-17-3.5MM	F.25
1224350000	SAI-M23-BE-17-10 MM	F.25
1224360000	SAI-M23-BE-17-17MM	F.25
1224370000	SAI-M23-SE-17-10MM	F.25
1224380000	SAI-M23-SE-17-17MM	F.25
1224390000	SAI-M23-SE-19F	F.26
1224400000	SAI-M23-BE-19F	F.26

Order No.	Type	Page
1224410000	SAI-M23-SE-19-3.5MM	F.26
1224420000	SAI-M23-BE-19-10MM	F.26
1224430000	SAI-M23-SE-19-PE	F.26
1224440000	SAI-M23-BE-19-PE	F.26
1224450000	SAI-M23-BE-19-17MM	F.26
1224460000	SAI-M23-SE-19-PEV	F.26
1224470000	SAI-M23-SE-19-10MM	F.26
1224480000	SAI-M23-SE-19-17MM	F.26
1224490000	SAI-M23-SE-9F	F.24
1224500000	SAI-M23-BE-9F	F.24
1224510000	SAI-M23-SE-9-3.5MM	F.24
1224520000	SAI-M23-BE-9-10MM	F.24
1224530000	SAI-M23-BE-9-17MM	F.24
1224540000	SAI-M23-SE-9-10MM	F.24
1224550000	SAI-M23-SE-9-17MM	F.24
1224560000	SAI-M23-SE-12-F	F.24
1224570000	SAI-M23-BE-12-F	F.24
1224580000	SAI-M23-SE-12-3.5MM-G	F.24
1224590000	SAI-M23-BE-12-10MM-G	F.24
1224600000	SAI-M23-BE-12-F-PE-G	F.24
1224620000	SAI-M23-SE-12-F-PE-G	F.24
1224630000	SAI-M23-SE-12-10MM-G	F.24
1224640000	SAI-M23-SE-12-17MM-G	F.24
1224650000	SAI-M23-SE-17-F	F.25
1224660000	SAI-M23-BE-17-F	F.25
1224670000	SAI-M23-SE-17-3.5MM-G	F.25
1224680000	SAI-M23-BE-17-10MM-G	F.25
1224690000	SAI-M23-BE-17-17MM-G	F.25
1224700000	SAI-M23-SE-17-10MM-G	F.25
1224710000	SAI-M23-SE-17-17MM-G	F.25
1224720000	SAI-M23-SE-9-F	F.24
1224730000	SAI-M23-BE-9-F	F.24
1224740000	SAI-M23-BE-9-10MM-G	F.24
1224750000	SAI-M23-BE-9-17MM-G	F.24
1224760000	SAI-M23-SE-9-10MM-G	F.24
1224770000	SAI-M23-SE-9-17MM-G	F.24
1224780000	SAI-M23-SE-9-17MM-G	F.24

1230000000

1232620000	SAIH-PB-2x0.24(PUR)	J.8
1232630000	SAIH-PB-PA-2X1.0-PVC-BL	J.36
1232640000	SAIH-PB-PA-2x1.0(PVC)	J.36
1235340000	SAI-AU ET SET M12 A COD	L.7
1235340000	SAI-AU ET SET M12 A COD	L.13

1240000000

1244790000	SAI-M23-SK-M	F.34
1246490000	SAI GHDE EA 8M12	L.6
1246490000	SAI GHDE EA 8M12	L.13
1246510000	SAI GHDE EA 8M12 SIBL	L.6
1246510000	SAI GHDE EA 8M12 SIBL	L.13
1246520000	SAI GHDE EA 16M8 O.SIBL	L.6
1246520000	SAI GHDE EA 16M8 O.SIBL	L.13
1246530000	SAI RA 54 KU	L.6
1246530000	SAI RA 54 KU	L.13
1246540000	SAI GHDE 3M12 1M8 SAI	L.8
1246540000	SAI GHDE 3M12 1M8 SAI	L.13
1246550000	SAI GHDE 3M12 1S2B	L.8
1246550000	SAI GHDE 3M12 1S2B	L.13
1246560000	SAI GHDE 4M12 1S3B	L.6
1246560000	SAI GHDE 4M12 1S3B	L.8
1246560000	SAI GHDE 4M12 1S3B	L.13
1246570000	SAI GHDE 4M12 2S2B	L.8
1246570000	SAI GHDE 4M12 2S2B	L.13
1246580000	SAI GHDE 4M12 2X1S1B	L.8
1246580000	SAI GHDE 4M12 2X1S1B	L.13
1246590000	SAI GHDE 4M12 3S1B	L.8
1246590000	SAI GHDE 4M12 3S1B	L.13
1246610000	SAI GHDE 3M12 1P69	L.13
1246660000	SAI RA 30 SB KU	L.9
1246660000	SAI RA 30 SB KU	L.13
1246670000	SAI GHDE 30 SB LA M12	L.10
1246670000	SAI GHDE 30 SB LA M12	L.13
1246680000	SAI GHDE 30 SB LA SIBL	L.10
1246680000	SAI GHDE 30 SB LA SIBL	L.13
1246690000	SAI GHDE 30 SB LA M8	L.10
1246690000	SAI GHDE 30 SB LA M8	L.13
1246710000	SAI BP 30 SB LA	L.10
1246710000	SAI BP 30 SB LA	L.13
1246720000	SAI RA 30 SB LA	L.10
1246720000	SAI RA 30 SB LA	L.13
1246810000	SAI GHDE 30 S KU M12	L.9
1246810000	SAI GHDE 30 S KU M12	L.13
1246820000	SAI GHDE 30 S KU SI	L.9
1246820000	SAI GHDE 30 S KU SI	L.13
1246830000	SAI GHDE 30 S KU M8	L.9
1246830000	SAI GHDE 30 S KU M8	L.13
1246840000	SAI BP 30 SB KU	L.9
1246840000	SAI BP 30 SB KU	L.13

1250000000

1254630000	SCREWTY SW9	M.5
1254640000	SCREWTY SW10	M.5
1254650000	SCREWTY SW13	M.5
1254660000	SCREWTY SW17	M.5
1254670000	SCREWTY SW18	M.5
1254680000	SCREWTY SW19	M.5

Order No.	Type	Page
1258930000	SAIBM-8/9S-M12	C.14
1258940000	SAISM-8/9S-M12	C.14
1259010150	SAIL-M16BW-12-1.5U	B.26

1260000000

1264180000	PB-DP SUB-D M12 180	J.17
1265920000	SAI-F 4P M12 L 5M	H.6
1265920000	SAI-F 4P M12 L 5M	H.10
1265930000	SAI-F 4P M12 L 10M	H.6
1265930000	SAI-F 4P M12 L 10M	H.10
1265940000	SAI-F-S12 4P M12 L	H.6
1265940000	SAI-F-S12 4P M12 L	H.11
1267330000	SAI-S8 4P M12 L	H.11
1268520000	SAIL-M12G-USB-3.0U	B.37
1269790000	SAIE-M16S-5-HWM	C.48

1270000000

1271590015	SAIL-VSB-M8G-3-0.15U	B.60
1274250000	PB-DP SUB-D M12 180 OS	J.17
1275470150	SAIL-M12BW-8S1.5U	B.15
1275750000	SAIBW-5/8S-M12 5P A-ZF	C.5
1276060150	SAIL-M12W-8S1.5U	B.15
1276450150	SAIL-VSBD180-M8G-3-1.5U	B.60
1279410150	SAIL-M12G-8-1.5U	B.14
1279420150	SAIL-M12W-8-1.5U	B.14
1279430150	SAIL-M12G-8S1.5U	B.15
1279440150	SAIL-M12GM12G-8-1.5U	B.14
1279450150	SAIL-M12GM12W-8-1.5U	B.14
1279460150	SAIL-M12GM12G-8S1.5U	B.15
1279470150	SAIL-M12GM12W-8S1.5U	B.15
1279480050	SAIE-M12B-PB-0.5U HW	J.7
1279480100	SAIE-M12B-PB-1.0U HW	J.7
1279480200	SAIE-M12B-PB-2.0U HW	J.7
1279480500	SAIE-M12B-PB-5.0U HW	J.7
1279490050	SAIE-M12S-PB-0.5U HW	J.7
1279490100	SAIE-M12S-PB-1.0U HW	J.7
1279490200	SAIE-M12S-PB-2.0U HW	J.7
1279490500	SAIE-M12S-PB-5.0U HW	J.7

1280000000

1283550000	SAIE-M12S-12-0.5U-PP-M16	C.39
1288820300	SAIL-M12BG-USB-3.0U	B.37
1289140000	SAIE-M12B-12-0.5U-PP-M16	C.39

1290000000

1290830000	SCREWTY SW15	M.5
1291870000	SAIS-3/9-7/8	E.6
1291880000	SAIS-3/11-7/8	E.6
1291890000	SAISW-3/9-7/8	E.7
1291900000	SAISW-3/11-7/8	E.7
1291910000	SAIB-3/9-7/8	E.6
1291920000	SAIB-3/11-7/8	E.7
1291930000	SAIBW-3/9-7/8	E.6
1291940000	SAIBW-3/11-7/8	E.7
1291950000	SAIS-4/11-7/8	E.7
1291970000	SAIS-5/11-7/8	E.7
1291980000	SAISW-5/9-7/8	E.6
1291990000	SAISW-5/11-7/8	E.6
1292000000	SAIE-5/9-7/8	E.7
1292010000	SAIE-5/11-7/8	E.7
1292020000	SAIBW-5/9-7/8	E.6
1292030000	SAIBW-5/11-7/8	E.7
1292040000	SAISW-4/11-7/8	E.7
1292050000	SAIB-4/11-7/8	E.7
1292070000	SAIBW-4/11-7/8	E.7
1292080150	SAIL-7/8G-3-1.5U	E.13
1292090150	SAIL-7/8W-3-1.5U	E.13
1292100150	SAIL-7/8G-3-1.5U	E.13
1292110150	SAIL-7/8W-3-1.5U	E.13
1292120150	SAIL-7/8G-4-1.5U	E.13
1292130150	SAIL-7/8W-4-1.5U	E.13
1292140150	SAIL-7/8G-4-1.5U	E.13
1292150150	SAIL-7/8W-4-1.5U	E.13

Order No.	Type	Page
1381680000	SAI-TMC-P4	M.13
1381690000	SAI-TMCSK	M.13
1381700000	SAI-TMC-PD	M.13
1381710000	SAI-TMCD	M.12
1381730000	SAI-CEHO80	M.12
1381740000	SAI-CEHO90	M.12
1381750000	SAI-CEHO95	M.12
1381760000	SAI-CEHO75	M.12
1381770000	SAI-CEH-M12D-KCR075	M.12
1381830000	SAI-MDC12D	M.13
1382970150	SAIP-M8BG-3-1.5U	B.22
1382980150	SAIP-M8BW-3-1.5U	B.22
1382990150	SAIP-M8BG-4-1.5U	B.22
1383000150	SAIP-M8BW-4-1.5U	B.22
1383010150	SAIP-M8BW-3L1.5U	B.24
1383020000	SAIS-WDF-4-M20	G.16
1383030000	SAIS-WDF-5-M20	G.16
1383040000	SAIS-WDF-8-M20	G.16
1383050000	SAIB-WDF-4-M20	G.16
1383070000	SAIB-WDF-5-M20	G.16
1383080000	SAIB-WDF-8-M20	G.16

1390000000

1391970000	SAIS-4/11-T-COD	G.14
1391980000	SAIB-4/11-T-COD	G.14
1391990000	SAIS-3+PE/11-S-COD	G.13
1392000000	SAIB-3+PE/11-S-COD	G.13
1392710000	SAIS-WDF-4-M20-T-COD	G.17
1392720000	SAIB-WDF-4-M20-T-COD	G.17
1393080000	IE-PCB2-M12X-S-180	J.81

1400000000

1408270000	SAI-M23-SK-F-P	F.34
1408280000	SAI-M23-SK-M-P	F.34

1410000000

1412620000	SAIH-5x0.34(PVC)	B.67
1413920000	SALY-7/8 3P	E.12
1413930000	SALY-7/8 4P	E.12
1413940000	SALY-7/8 5P	E.12
1416330000	THM MMP PERFORATOR	M.23
1416410000	SAI-M23-SK-F	F.34
1417920000	SAI-M23-SK-F-FS	F.34
1418040000	SAIE-7/8S-3.0.2U-M20	E.11
1418050000	SAIE-7/8S-4.0.2U-M20	E.11

1420000000

1426210000	RIBBON HSS HF EL 40/300	M.23
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1430000000

1431490000	SAI-4-M-SVV-M12	G.20
1431510150	SAIL-M12BW-PBK38-1.5V	J.6
1431520150	SAIL-M12BG-PBK38-1.5V	J.6

1440000000

1449400000	SAI-4-S12 M8 L 1:1	H.49
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1450000000

1452440000	SAI-M23-GS-7/12-VA	F.15
1452450000	SAIE-M23-SVV-VA	F.16

1460000000

1460290000	SAIS-WDF-3+PE-M20-S-COD	G.17
1460300000	SAIB-WDF-3+PE-M20-S-COD	G.17
1460310000	SAIE-M12B-3+PE-S-0.5U-M16	G.19
1460320000	SAIE-M12S-3+PE-S-0.5U-M16	G.19
1460330000	SAIE-M12B-4-T-0.5U-M16	G.19
1460340000	SAIE-M12S-4-T-0.5U-M16	G.19
1467550000	SAISM-3/9S-M8	C.24
1467560000	SAIBM-3/9S-M8	C.24
1467570000	SAISM-4/9S-M8	C.24
1467580000	SAIBM-4/9S-M8	C.24
1467590000	SAIE-M8S-8-0.2U-FP	C.41
1467610000	SAIE-M8S-8-TL-HW	C.42
1467620000	SAIE-M8S-8-0.2U-HW	C.41
1467630000	SAIE-M8B-8-0.2U-FP	C.41
1467640000	SAIE-M8B-8-0.2U-HW	C.41
1467650000	SAIE-M8B-8-TL-HW	C.42
1467660000	SAISW-4/11-1.5	G.12
1467670000	SAIBW-4/11-1.5	G.12
1467680000	SAISW-5/11-1.5	G.12
1467690000	SAIBW-5/11-1.5	G.12
1467710000	SAIE-M12S-4S-TL-HW-PG9	C.47
1467720000	SAIE-M12S-5S-TL-HW-PG9	C.47
1467730000	SAIE-M12S-8S-TL-HW-PG9	C.47
1467740000	SAIE-M12S-12S-TL-HW-PG9	C.47
1467750000	SAIEW-M12S-4S-TL-HW-PG9	C.47
1467760000	SAIEW-M12S-5S-TL-HW-PG9	C.47
1467770000	SAIE-M12B-4S-TL-HW-PG9	C.47
1467780000	SAIE-M12B-5S-TL-HW-PG9	C.47
1467790000	SAIE-M12B-8S-TL-HW-PG9	C.47

Order No.	Type	Page
1467810000	SAIE-M12B-12S-TL-HW-PG9	C.47
1467820000	SAIEW-M12B-4S-TL-HW-PG9	C.47
1467830000	SAIEW-M12B-5S-TL-HW-PG9	C.47
1467840000	SAISC-M-4/8S-M12-D-COD	C.20
1467840000	SAISC-M-4/8S-M12-D-COD	J.78
1467850000	SAISWC-M-4/8S-M12-D-COD	C.20
1467850000	SAISWC-M-4/8S-M12-D-COD	J.78
1467860000	SAISW-3+PE/11-S-COD	G.13
1467870000	SAIBW-3+PE/11-S-COD	G.13
1467880000	SAISW-4/11-T-COD	G.14
1467890000	SAIBW-4/11-T-COD	G.14
1467930000	SAIE-M12S-4-S-0.2U-M16	G.19
1467940000	SAIE-M12B-4-S-0.2U-M16	G.19
1467950000	SAIE-M12S-4-T-0.2U-M16	G.19
1467960000	SAIE-M12B-4-T-0.2U-M16	G.19
1468860000	SAH-M12-KSC-0.34/0.5	C.20
1468860000	SAH-M12-KSC-0.34/0.5	J.78
1469360150	SAIL-M8GM8G-4-1.5UGE	B.38

1470000000

1471490000	SAIE-7/8-S-5-0.2U-M20	E.11
1471510000	SAIE-7/8-B-3-0.2U-M20	E.11
1471520000	SAIE-7/8-B-4-0.2U-M20	E.11
1479400000	SAIE-M23-S-EM-VA	F.16
1479410000	SAI-M23-GS-7/12-VA	F.15
1479420000	SAIE-M23-L-EM-VA	F.16

1480000000

1483880000	SAIE-M23-L-VV-VA	F.16
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1520000000

1525690300	SAIL-VSAV-3.0U	B.54
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1540000000

1542580000	SAI-4-M-MVV-M12 S-COD	G.22
1549100150	SAIL-VSAV-230V-1.5U	B.54

1550000000

1550580000	CAN SUB-D SK TERM	J.20
1550590000	CAN SUB-D SK TERM PS	J.22
1550600000	CAN SUB-D SK35 TERM	J.19
1550610000	CAN SUB-D SK35 TERM PS	J.19
1551080000	SAI-SUB-D 9 SK35	J.23
1555270000	CAN SUB-D M12 TERM	J.18
1555280000	CAN SUB-D M12 TERM PS	J.18
1555290000	CAN SUB-D M12 180 TERM	J.21
1555300000	CAN SUB-D SK	J.20

1590000000

1597410000	BL 3.5/0.07/180 SN OR BX	H.39
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1600000000

1609801044	DEK 5/5 MC NE WS	M.24
1609810000	DEK 5/5 MC SDR	M.24
1609880000	WS 15/5 MC NE WS	M.24
1609890000	WS 15/5 MC SDR	M.24
1609940000	ESG 9/20 MC NE WS	M.24

1630000000

1635000000	WS 10/5 MC NE WS	M.24
1635010000	WS 10/5 MC SDR	M.24

1700000000

1701230000	SAI-4-M 5P M12	H.6
1701230000	SAI-4-M 5P M12	H.7
1701231000	SAI-4-M 5P M12 UT	H.7
1701231000	SAI-4-M 5P M12 UT	H.40
1701232000	SAI-4-MH-5P M12	H.29
1701232000	SAI-4-MH-5P M12	H.32
1701233000	SAI-4-MHD-5P M12	H.29
1701233000	SAI-4-MHD-5P M12	H.33
1701240000	SAI-6-M 5P M12	H.6
1701240000	SAI-6-M 5P M12	H.7
1701241000	SAI-6-M 5P M12 UT	H.7
1701241000	SAI-6-M 5P M12 UT	H.40
1701242000	SAI-6-MH-5P M12	H.29
1701242000	SAI-6-MH-5P M12	H.32
1701243000	SAI-6-MHD-5P M12	H.29
1701243000	SAI-6-MHD-5P M12	H.33
1701250000	SAI-8-M 5P M12	H.6
1701250000	SAI-8-M 5P M12	H.7
1701251000	SAI-8-M 5P M12 UT	H.7
1701251000	SAI-8-M 5P M12 UT	H.40
1701252000	SAI-8-MH-5P M12	H.29
1701252000	SAI-8-MH-5P M12	H.32
1701253000	SAI-8-MHD-5P M12	H.29
1701253000	SAI-8-MHD-5P M12	H.33
1705920000	SAI-4-M 4P M12	H.6
1705920000	SAI-4-M 4P M12	H.7
1705921000	SAI-4-M 4P M12 UT	H.7

Order No.	Type	Page
1705921000	SAI-4 M 4P M12 UT	H.40
1705922000	SAI-4-MH-4P M12	H.29
1705922000	SAI-4-MH-4P M12	H.32
1705923000	SAI-4-MHD-4P M12	H.29
1705923000	SAI-4-MHD-4P M12	H.33
1705930000	SAI-6-M 4P M12	H.6
1705930000	SAI-6-M 4P M12	H.7
1705931000	SAI-6-M 4P M12 UT	H.7
1705931000	SAI-6-M 4P M12 UT	H.40
1705932000	SAI-6-MH-4P M12	H.29
1705932000	SAI-6-MH-4P M12	H.32
1705933000	SAI-6-MHD-4P M12	H.29
1705933000	SAI-6-MHD-4P M12	H.33
1705940000	SAI-8-M 4P M12	H.6
1705940000	SAI-8-M 4P M12	H.7
1705941000	SAI-8-M 4P M12 UT	H.7
1705941000	SAI-8-M 4P M12 UT	H.40
1705942000	SAI-8-MH-4P M12	H.29
1705942000	SAI-8-MH-4P M12	H.32
1705943000	SAI-8-MHD-4P M12	H.29
1705943000	SAI-8-MHD-4P M12	H.33

1710000000

1718411687	TMH 12 MC NE GE	J.68
1718411687	TMH 12 MC NE GE	J.68
1718411687	TMH 12 MC NE GE	J.69
1718411687	TMH 12 MC NE GE	J.69
1718411687	TMH 12 MC NE GE	J.70
1718411687	TMH 12 MC NE GE	J.70
1718411687	TMH 12 MC NE GE	J.71
1718411687	TMH 12 MC NE GE	J.72
1718411687	TMH 12 MC NE GE	J.72
1718411687	TMH 12 MC NE GE	J.73
1718411687	TMH 12 MC NE GE	J.74
1718411687	TMH 12 MC NE GE	J.75
1718411687	TMH 12 MC NE WS	M.18
1718431687	TMH 18 MC NE GE	J.68
1718431687	TMH 18 MC NE GE	J.68
1718431687	TMH 18 MC NE GE	J.69
1718431687	TMH 18 MC NE GE	J.69
1718431687	TMH 18 MC NE GE	J.70
1718431687	TMH 18 MC NE GE	J.70
1718431687	TMH 18 MC NE GE	J.71
1718431687	TMH 18 MC NE GE	J.71
1718431687	TMH 18 MC NE GE	J.72
1718431687	TMH 18 MC NE GE	J.72
1718431687	TMH 18 MC NE GE	J.73
1718431687	TMH 18 MC NE GE	J.74
1718431687	TMH 18 MC NE GE	J.74
1718431687	TMH 18 MC NE GE	J.75
1718431687	TMH 18 MC NE GE	M.18
1719840000	TM 4/12 HF/HB	J.70
1719840000	TM 4/12 HF/HB	J.70
1719840000	TM 4/12 HF/HB	J.71
1719840000	TM 4/12 HF/HB	J.74
1719840000	TM 4/12 HF/HB	J.74
1719840000	TM 4/12 HF/HB	J.75
1719850000	TM 4/18 HF/HB	J.70
1719850000	TM 4/18 HF/HB	J.71
1719850000	TM 4/18 HF/HB	J.74
1719850000	TM 4/18 HF/HB	J.74
1719850000	TM 4/18 HF/HB	J.75
1719850000	TM 4/18 HF/HB	M.18

1720000000

1724750000	SAI-4/6/8-MH BL3.5	H.7
1724750000	SAI-4/6/8-MH BL3.5	H.7
1724750000	SAI-4/6/8-MH BL3.5	H.24
1724750000	SAI-4/6/8-MH BL3.5	H.24
1724750000	SAI-4/6/8-MH BL3.5	H.35
1724750050	SAI-4/6/8-MH BL3.5 SV	H.7
1724750050	SAI-4/6/8-MH BL3.5 SV	H.7
1724750050	SAI-4/6/8-MH BL3.5 SV	H.17
1724750050	SAI-4/6/8-MH BL3.5 SV	H.24
1724750050	SAI-4/6/8-MH BL3.5 SV	H.24
1724752000	SAI-4/6/8-MH-MM BL 3.5	H.29
1724752000	SAI-4/6/8-MH-MM BL 3.5	H.32
1724752000	SAI-4/6/8-MH-MM BL 3.5	H.32
1724753000	SAI-4/6/8-MH-MHD BL 3.5	H.29
1724753000	SAI-4/6/8-MH-MHD BL 3.5	H.33
1724753000	SAI-4/6/8-MH-MHD BL 3.5	H.33
1724754000	SAI-4/6/8-MH-MM BL 3.5	H.31
1724754000	SAI-4/6/8-MH-MM BL 3.5	H.31

1730000000

1736230000	GWDR M16-NP	J.83
1737070000	VP M16-EXE SW	J.83

Order No.	Type	Page
1783540000	SAI4-MMS 4P M12	H.31
1784030001	SAIB-3-IDC-M8 small	C.6
1784030001	SAIB-3-IDC-M8 small	C.31
1784040001	SAIS-3-IDC-M8 small	C.6
1784040001	SAIS-3-IDC-M8 small	C.31
1784050001	SAIB-4-IDC-M8 small	C.6
1784050001	SAIB-4-IDC-M8 small	C.31
1784060001	SAIS-4-IDC-M8 small	C.6
1784060001	SAIS-4-IDC-M8 small	C.31
1784500000	SAI-8-F 5P 20M 0.5/1.0U	H.8
1784510000	SAI-8-F 5P 15M 0.5/1.0U	H.8
1784570000	SAI-8-F 4P M8 PUR 10M	H.46
1784580000	SAI-8-F 4P M8 PUR 5M	H.46
1784590000	SAI-4-F 4P M8 PUR 10M	H.46
1784600000	SAI-4-F 4P M8 PUR 5M	H.46
1784610000	SAI-8-F 3P M8 PUR 10M	H.46
1784620000	SAI-8-F 3P M8 PUR 5M	H.46
1784630000	SAI-4-F 3P M8 PUR 10M	H.46
1784640000	SAI-4-F 3P M8 PUR 5M	H.46
1784650000	SAI-8-M23 4P M8	F.39
1784650000	SAI-8-M23 4P M8	H.47
1784660000	SAI-4-M23 4P M8	F.39
1784660000	SAI-4-M23 4P M8	H.47
1784670000	SAI-8-M 3P M8	H.46
1784680000	SAI-4-M 3P M8	H.46
1784690000	SAI-8-M 4P M8	H.46
1784700000	SAI-4-M 4P M8	H.46
1784740000	SAIS-M-5/8S M12 5P A-COD	C.13
1784740000	SAIS-M-5/8S M12 5P A-COD	C.37
1784740000	SAIS-M-5/8S M12 5P A-COD	J.11
1784740000	SAIS-M-5/8S M12 5P A-COD	J.66
1784740002	SAIBM-4/8S-M12 4P A-ZF	C.5
1784750000	SAIB-M-5/8S M12 5P A-COD	C.6
1784750000	SAIB-M-5/8S M12 5P A-COD	C.13
1784750000	SAIB-M-5/8S M12 5P A-COD	J.66
1784780000	SAIBM 5/8S M12 5P B-COD	C.5
1784780000	SAIBM 5/8S M12 5P B-COD	C.17
1784780000	SAIBM 5/8S M12 5P B-COD	J.11
1784790000	SAISM 5/8S M12 5P B-COD	C.5
1784790000	SAISM 5/8S M12 5P B-COD	C.17
1784790000	SAISM 5/8S M12 5P B-COD	J.11
1785100100	FBC PA M12 M-FM 1M	J.35
1785110100	FBC PA M12 FM 1M	J.34
1785120100	FBC PA M12 M 1M	J.34
1785130100	FBC EX PA M12 M-FM 1M	J.35
1785140100	FBC EX PA M12 FM 1M	J.34
1785150100	FBC EX PA M12 M 1M	J.34
1789190000	SAI-8-MF 4P PUR 10M M12	H.40

1790000000

1791450400	SAI-4/6/8-MHF 4P PUR 4M	H.40
1791450600	SAI-4/6/8-MHF 4P PUR 6M	H.40
1791450900	SAI-4/6/8-MHF 4P PUR 9M	H.40
1791451400	SAI-4/6/8-MHF 4P PUR 14M	H.40
1791452000	SAI-4/6/8-MHF 4P PUR 20M	H.40
1791452800	SAI-4/6/8-MHF 4P PUR 28M	H.40
1791453400	SAI-4/6/8-MHF 4P PUR 34M	H.40
1791460400	SAI-4/6/8-MHF 5P PUR 4M	H.40
1791460600	SAI-4/6/8-MHF 5P PUR 6M	H.40
1791460900	SAI-4/6/8-MHF 5P PUR 9M	H.40
1791461100	SAI-4/6/8-MHF 5P PUR 10M	H.40
1791461400	SAI-4/6/8-MHF 5P PUR 14M	H.40
1791461600	SAI-4/6/8-MHF 5P PUR 16M	H.40
1791462000	SAI-4/6/8-MHF 5P PUR 20M	H.40
1791462800	SAI-4/6/8-MHF 5P PUR 28M	H.40
1791463400	SAI-4/6/8-MHF 5P PUR 34M	H.40
1791464400	SAI-4/6/8-MHF 5P PUR 40M	H.40
1791465000	SAI-4/6/8-MHF 5P PUR 50M	H.40
1791465500	SAI-4/6/8-MHF 5P PUR 55M	H.40
1794950000	SAI-SK-M12 IDC	C.37
1794950000	SAI-SK-M12 IDC	H.23
1795020000	SAHDC-T00L	H.23
1795470000	SAI-8-S 5P M12	H.6
1795470000	SAI-8-S 5P M12	H.12
1795500000	POS-5P M12 M20 300mm	J.39
1795900000	SAI-8-M16 3P M8	H.47
1798480000	TM 203/18 VO	M.18
1799960000	SAI-8-MF 4P PUR 5M M12	H.40

1800000000

1800000000	SAI-4-M 5P M12 0L	H.7
1800001000	SAI-4-M 5P M12 0L UT	H.7
1802750000	SAISK M12 MT	C.37
1802760000	SAISK M8	C.37
1803850000	SAIS-M8-4P	C.6
1803850000	SAIS-M8-4P	C.23
1803860000	SAIS-M8-3P	C.6
1803860000	SAIS-M8-3P	C.23
1803870000	SAIB-M8-3P	C.6
1803870000	SAIB-M8-3P	C.23
1803880000	SAIB-M8-4P	C.6
1803880000	SAIB-M8-4P	C.23
1803910000	SAIBW-M-4/8 M12	C.5
1803910000	SAIBW-M-4/8 M12	C.13
1803910000	SAIBW-M-4/8 M12	J.37
1803920000	SAIBW-M-5/8 M12	C.5

Order No.	Type	Page
1803920000	SAIBW-M-5/8 M12	C.13
1803920000	SAIBW-M-5/8 M12	J.37
1803920000	SAIBW-M-5/8 M12	J.66
1803930000	SAISW-M-4/8 M12	C.5
1803930000	SAISW-M-4/8 M12	C.13
1803930000	SAISW-M-4/8 M12	J.37
1803930001	SAISW-4/8S-M12 4P D-ZF	C.5
1803930001	SAISW-4/8S-M12 4P D-ZF	C.19
1803940000	SAISW-M-5/8 M12	C.5
1803940000	SAISW-M-5/8 M12	C.13
1803940000	SAISW-M-5/8 M12	J.37
1803940000	SAISW-M-5/8 M12	J.66
1804580000	SAI-4-MF 5P PUR 10M	H.40
1804590000	SAI-8-MF 5P PUR 5M	H.40
1804600000	SAI-4-MF 5P PUR 5M	H.40
1805660000	SAI Y-4S M8-M8	C.33
1805720000	SFC 1/30 MC NE BL	M.17
1805730000	SFC 1/30 MC NE GE	M.17
1805740000	SFC 1/30 MC NE RT	M.17
1805750000	SFC 1/30 MC SDR	M.17
1805760000	SFC 1/30 MC NE WS	M.17
1805770000	SFC 2/21 MC NE BL	M.17
1805780000	SFC 2/21 MC NE GE	M.17
1805790000	SFC 2/21 MC NE RT	M.17
1805800000	SFC 2/21 MC SDR	M.17
1805810000	SFC 2/21 MC NE WS	M.17
1805820000	SFC 2/30 MC NE BL	M.17
1805830000	SFC 2/30 MC NE GE	M.17
1805850000	SFC 2/30 MC NE RT	M.17
1805860000	SFC 2/30 MC SDR	M.17
1805870000	SFC 2/30 MC NE WS	M.17
1806010000	SAI-4-M 5P M12 1:1	H.34
1806011000	SAI-4-M 5P M12 M1:1 UT	H.34
1807230000	SAIB-4/9	C.5
1807230000	SAIB-4/9	C.7
1807240000	SAIBW-4/9	C.5
1807240000	SAIBW-4/9	C.7
1807250000	SAIB-5/9	C.5
1807250000	SAIB-5/9	C.8
1807330000	SAIBW-5/9	C.5
1807330000	SAIBW-5/9	C.8
1807340000	SAIS-4/9	C.5
1807340000	SAIS-4/9	C.7
1807350000	SAIS-5/9	C.5
1807350000	SAIS-5/9	C.8
1807360000	SAISW-4/9	C.5
1807360000	SAISW-4/9	C.7
1807370000	SAISW-5/9	C.5
1807370000	SAISW-5/9	C.8
1807640000	SAI-4-M 8P M12	H.35
1807641000	SAI-4-M 8P M12 UT	H.35
1808830000	SAISW-4/9-7/8"	E.6
1808830000	SAISW-4/9-7/8"	J.82
1808840000	SAIS-4/9-7/8"	E.6
1808840000	SAIS-4/9-7/8"	J.82
1808970150	SAIL-M12BW-4S1.5U	B.17

1810000000

1812170000	SAI-8-B 4P M12 F10	H.39
1812470000	SAIBW-4/9-7/8"	E.6
1812470000	SAIBW-4/9-7/8"	J.82
1812480000	SAIB-4/9-7/8"	E.6
1812480000	SAIB-4/9-7/8"	J.82
1812540150	SAIL-M12BG-4S1.5U	B.17
1812550150	SAIL-ZWM12BG-2/4-1.5U	B.43
1812870000	SAISW-4IDC M12	C.30
1812890000	SAIBW-4IDC M12	C.30
1813130000	SFC 0/12 MC NE WS	M.17
1813150000	SFC 0/12 MC NE RT	M.17
1813160000	SFC 0/12 MC NE GE	M.17
1813170000	SFC 0/12 MC NE BL	M.17
1813180000	SFC 0/12 MC SDR	M.17
1813190000	SFC 0/21 MC NE WS	M.17
1813200000	SFC 0/21 MC NE RT	M.17
1813210000	SFC 0/21 MC NE GE	M.17
1813220000	SFC 0/21 MC NE BL	M.17
1813230000	SFC 0/21 MC SDR	M.17
1813240000	SFC 0/30 MC NE WS	M.17
1813250000	SFC 0/30 MC NE RT	M.17
1813260000	SFC 0/30 MC NE GE	M.17
1813270000	SFC 0/30 MC NE BL	M.17
1813280000	SFC 0/30 MC SDR	M.17
1814890000	SAIEM12B-5.0-5U-PG9	C.40
1814990000	SAI-8-F 5P NPN-PNP 5M	H.36
1815670150	SAIL-M12WM12W-3.15U	B.7
1815670150	SAIL-M12WM12W-3.15U	B.29
1815670300	SAIL-M12WM12W-3.3.0U	B.7
1815670500	SAIL-M12WM12W-3.5.0U	B.7
1815671000	SAIL-M12WM12W-3.10U	B.7
1816610000	SAI-8-M 5P M12 0L2	H.7
1818090100	SAIS-M23-19P-AN-1.0M	F.36
1818140100	SAIB-M23-19P-AN-1.0M	F.36
1818160100	SAIS-M23-19P-ST-1.0M	F.36
1818180100	SAIB-M23-19P-ST-1.0M	F.36

1820000000

1821050150	SAIL-M12WM12G-3.15U	B.6
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Order No.	Type	Page
1821050300	SAIL-M12WM12G-3.0U	B.6
1821050500	SAIL-M12WM12G-3.5.0U	B.6
1821051000	SAIL-M12WM12G-3.10U	B.6
1824570150	SAIL-M8GM8G-3.15U	B.4
1824570150	SAIL-M8GM8G-3.15U	B.38
1824570300	SAIL-M8GM8G-3.0U	B.4
1824570500	SAIL-M8GM8G-3.5.0U	B.4
1824571000	SAIL-M8GM8G-3.10U	B.4
1824580150	SAIL-M8GM8W-3.15U	B.5
1824580150	SAIL-M8GM8W-3.15U	B.38
1824580300	SAIL-M8GM8W-3.3.0U	B.5
1824580500	SAIL-M8GM8W-3.5.0U	B.5
1824581000	SAIL-M8GM8W-3.10U	B.5
1824590150	SAIL-M8G-3.15U	B.19
1824590300	SAIL-M8G-3.0U	B.4
1824590500	SAIL-M8G-3.5.0U	B.4
1824591000	SAIL-M8G-3.10U	B.4
1826880000	SAI-Y-5S- M12/M12	C.33
1827010150	SAIL-M8BVR-3.15U	B.20
1827020150	SAIL-M8BGR-3.15U	B.20
1828610000	SAI-8-F 4P M8 L 10M	H.6
1828610000	SAI-8-F 4P M8 L 10M	H.51
1828620000	SAI-8-F 4P M8 L 5M	H.6
1828620000	SAI-8-F 4P M8 L 5M	H.51
1828630000	SAI-12-F 3P M8 L 10M	H.6
1828630000	SAI-12-F 3P M8 L 10M	H.51
1828640000	SAI-12-F 3P M8 L 5M	H.6
1828640000	SAI-12-F 3P M8 L 5M	H.51
1828650000	SAI-10-F 3P M8 L 10M	H.6
1828650000	SAI-10-F 3P M8 L 10M	H.51
1828660000	SAI-10-F 3P M8 L 5M	H.6
1828660000	SAI-10-F 3P M8 L 5M	H.51
1828670000	SAI-8-F 3P M8 L 10M	H.6
1828670000	SAI-8-F 3P M8 L 10M	H.51
1828680000	SAI-8-F 3P M8 L 5M	H.6
1828680000	SAI-8-F 3P M8 L 5M	H.51
1828690000	SAI-8-F 3P M8 L 10M	H.6
1828690000	SAI-8-F 3P M8 L 10M	H.51
1828700000	SAI-6-F 3P M8 L 5M	H.6
1828700000	SAI-6-F 3P M8 L 5M	H.51
1828710000	SAI-4-F 3P M8 L 10M	H.6
1828710000	SAI-4-F 3P M8 L 10M	H.51
1828720000	SAI-4-F 3P M8 L 5M	H.6
1828720000	SAI-4-F 3P M8 L 5M	H.51
1828730000	SAI-6-S 3P M8 L	H.48
1828730000	SAI-6-S 3P M8 L	H.48
1828740000	SAI-4-S 3P M8 L	H.6
1828740000	SAI-4-S 3P M8 L	H.48

1830000000

1831020000	SAIEM16 4P M12	H.13
1831090000	SAIEM12B-5.0-5U-M16	C.39
1836960000	SAIB-8/9	C.5
1836960000	SAIB-8/9	C.8
1836970000	SAIS-8/9	C.5
1836970000	SAIS-8/9	C.8
1837560000	SAIS-ZWW	C.12

1840000000

1845120150	SAIL-VSA-1.5U(0.5)	B.57
1845140150	SAIL-VSB-180-1.5U(0.5)	B.58
1845160150	SAIL-VSD-180-1.5U(0.5)	B.58
1845200000	SAI-4-F 4P M5 L10M	H.54
1845810000	SAI-8-F 4P M5 L10M	H.54
1845820000	SAI-4-F 3P M5 L10M	H.54
1845830000	SAI-8-F 3P M5 L10M	H.54
1845840000	SAI-4-S 4P M5	H.54
1845850000	SAI-8-S 3P M5	H.54
1845860000	SAI-8-S16/19P 4P M5	H.55
1845870000	SAI-4-S16 4P M5	H.55
1845880000	SAI-8-S16 3P M5	H.55
1845890000	SAI-4-S16 3P M5	H.55
1847560000	SAI-8-B 5P M12 SL	H.37
1847920000	SAI-8-S 4P FC	F.37
1847920000	SAI-8-S 4P FC	H.19
1847960000	SAI-4-S 4P FC	F.37

Order No.	Type	Page
1873070000	SAIB-VSA-3P/250/9-0B	C.51
1873080000	SAIB-VSA-4P/250/9-0B	C.51
1873090000	SAIB-VSA-3P/250/11-0B	C.51
1873100000	SAIB-VSA-4P/250/11-0B	C.51
1873110000	SAIB-VSA-3P/230/9-0B	C.52
1873120000	SAIB-VSA-3P/24/9-0B	C.52
1873130000	SAIB-VSA-3P/230/9-0B	C.51
1873140000	SAIB-VSA-4P/230/9-0B	C.51
1873150000	SAIB-VSA-3P/230/11-H/0B	C.51
1873160000	SAIB-VSA-4P/230/11-H/0B	C.51
1873170000	SAIB-VSB-3P/250/9-0B	C.53
1873180000	SAIB-VSB-3P/24/9-0B	C.53
1873190000	SAIB-VSBD-3P/250/9-0B	C.54
1873200000	SAIB-VSC-3P/250/7-0B	C.55
1873210000	SAIB-VSC-4P/250/7-0B	C.55
1873220000	SAIB-VSCD-3P/250/7-0B	C.55
1873230000	SAIB-VSCD-4P/250/7-0B	C.55
1873240150	SAIL-M5W-4P-1.5U	B.25
1873250150	SAIL-M5BG-4P-1.5U	B.25
1873260150	SAIL-M5BW-3P-1.5U	B.25
1873270150	SAIL-M5BW-4P-1.5U	B.25
1873280150	SAIL-M5W-3P-1.5U	B.25
1873290150	SAIL-M5BG-3P-1.5U	B.25
1873300150	SAIL-M12G-PB-1.5D	J.4
1873310150	SAIL-M12GM12G-PB-1.5D	J.4
1873320150	SAIL-M12BG-PB-1.5D	J.5
1877250150	SAIL-M8GM8W-3L1.5U	B.5
1877250150	SAIL-M8GM8W-3L1.5U	B.40
1877250300	SAIL-M8GM8W-3L3.0U	B.5
1877250050	SAIL-M8GM8W-3L3.0U	B.5
1877251000	SAIL-M8GM8W-3L10U	B.5
1877440100	SAIB-M23-12P-AN-1,0M	F.36
1877950000	SAI-10-S12 3P M8 L	H.6
1877950000	SAI-10-S12 3P M8 L	H.48
1879170150	SAIL-M12BG-12-1.5U	B.14

1880000000

1880470150	SAIL-M8GM8G-4-1.5U	B.5
1880470150	SAIL-M8GM8G-4-1.5U	B.38
1880470300	SAIL-M8GM8G-4-3.0U	B.5
1880470500	SAIL-M8GM8G-4-5.0U	B.5
1880471000	SAIL-M8GM8G-4-10U	B.5
1881710000	SAI-Y-SS M12/M12 2Bo	B.34
1883460150	SAIL-M12BW-8-1.5U	C.14
1886440100	SAIB-M23-12P-ST-1,0M	F.36

1890000000

1890520150	SAIL-M12BG-8S1.5U	B.15
1892080000	SAI-8-M 5P M12 ECO	H.17
1892080005	SAI-8-M 5P M12 NPN ECO	H.17
1892081000	SAI-8-M 5P M12 ECO UT	H.17
1892090000	SAI-6-M 5P M12 ECO	H.17
1892091000	SAI-6-M 5P M12 ECO UT	H.17
1892100000	SAI-4-M 5P M12 ECO	H.17
1892100005	SAI-4-M 5P M12 NPN ECO	H.17
1892101000	SAI-4-M 5P M12 ECO UT	H.17
1892120000	SAISM-4/8S-M12-4P D-CDD	C.5
1892120000	SAISM-4/8S-M12-4P D-CDD	C.18
1892120000	SAISM-4/8S-M12-4P D-CDD	C.75
1892120001	SAISM-4/8S-M12 4P D-ZF	C.5
1892120001	SAISM-4/8S-M12 4P D-ZF	C.19
1892130000	SAIBM-4/8S-M12-4P D-CDD	C.5
1892130000	SAIBM-4/8S-M12-4P D-CDD	C.18
1892130000	SAIBM-4/8S-M12-4P D-CDD	J.76
1892130001	SAIBM-4/8S-M12 4P D-ZF	C.5
1892130001	SAIBM-4/8S-M12 4P D-ZF	C.19
1894380000	SAI-8-M 4P Exi Z1 DL	H.57
1896050000	SAI-4-M 5P M12 Ex ia	H.57
1896070000	SAI-6-M 5P M12 Ex ia	H.57
1896090000	SAI-8-M 5P M12 Ex ia	H.57
1897680000	SAI-4-MMS 5P M12 1:1	H.34
1898240150	SAIL-M12BW-12-1.5U	B.14

1900000000

1900000000	Screwty-M12	J.68
1900000000	Screwty-M12	J.68
1900000000	Screwty-M12	J.69
1900000000	Screwty-M12	J.69
1900000000	Screwty-M12	M.5
1900001000	Screwty-M12-DM	H.23
1900001000	Screwty-M12-DM	J.68
1900001000	Screwty-M12-DM	J.68
1900001000	Screwty-M12-DM	J.69
1900001000	Screwty-M12-DM	J.69
1900001000	Screwty-M12-DM	K.7
1900001000	Screwty-M12-DM	M.5
1900010000	Screwty-M8	M.5
1900011000	Screwty-M8-DM	M.5
1900020000	Screwty-M12 F	M.5
1900021000	Screwty-M12 F-DM	M.5
1900030000	Screwty-M8 F	M.5
1900031000	Screwty-M8 F-DM	M.5
1900100000	Screwty-M12 KO a, SD	M.5
1900110000	Screwty-M8 KO a, SD	M.5
1900120000	Screwty-M12 KO a, SD	M.5
1900130000	Screwty-M8 KO a, SD	M.5

Order No.	Type	Page
1902110000	SAIH-3x0,34(PUR)	B.63
1902110000	SAIH-3x0,34(PUR)	B.73
1902120000	SAIH-4x0,25(PUR)	B.62
1902130000	SAIH-4x0,34(PUR)	B.63
1902130000	SAIH-4x0,34(PUR)	B.73
1902140000	SAIH-3x0,25(PUR)	B.62
1902160000	SAIH-3x0,34(PVC)	B.66
1902170000	SAIH-4x0,25(PVC)	B.65
1902180000	SAIH-4x0,34(PVC)	B.66
1902190000	SAIH-3x0,25(PVC)	B.65
1905490000	M-PRINT PRD	M.21
1906260150	SAIL-M12W-4-1.5U	B.4
1906260150	SAIL-M12W-4-1.5U	B.11
1906260300	SAIL-M12W-4-3.0U	B.4
1906260500	SAIL-M12W-4-5.0U	B.4
1906261000	SAIL-M12W-4-10U	B.4
1906270150	SAIL-M8G-4-1.5U	B.4
1906270150	SAIL-M8G-4-1.5U	B.19
1906270300	SAIL-M8G-4-3.0U	B.4
1906270500	SAIL-M8G-4-5.0U	B.4
1906271000	SAIL-M8G-4-10U	B.4
1906280100	SAIS-M23-12P-AN-1,0M	F.36
1906290100	SAIS-M23-12P-AN-1,0M	F.36
1906300030	SAIL-M12GM12G-4-0.3U	K.7
1906300050	SAIL-M12GM12G-4-0.5U	K.7
1906300150	SAIL-M12GM12G-4-1.5U	B.6
1906300150	SAIL-M12GM12G-4-1.5U	B.29
1906300150	SAIL-M12GM12G-4-1.5U	C.9
1906300150	SAIL-M12GM12G-4-1.5U	K.7
1906300300	SAIL-M12GM12G-4-3.0U	B.6
1906300500	SAIL-M12GM12G-4-5.0U	B.6
1906301000	SAIL-M12GM12G-4-10U	B.6
1906310150	SAIL-M12WM12W-4-1.5U	B.7
1906310150	SAIL-M12WM12W-4-1.5U	B.29
1906310300	SAIL-M12WM12W-4-3.0U	B.7
1906310500	SAIL-M12WM12W-4-5.0U	B.7
1906311000	SAIL-M12WM12W-4-10U	B.7
1906330150	SAIL-M12WM8W-3-1.5U	B.5
1906330150	SAIL-M12WM8W-3-1.5U	B.33
1906330300	SAIL-M12WM8W-3-3.0U	B.5
1906330500	SAIL-M12WM8W-3-5.0U	B.5
1906331000	SAIL-M12WM8W-3-10U	B.5
1906340150	SAIL-M12WM8W-4-1.5U	B.5
1906340150	SAIL-M12WM8W-4-1.5U	B.33
1906340300	SAIL-M12WM8W-4-3.0U	B.5
1906340500	SAIL-M12WM8W-4-5.0U	B.5
1906341000	SAIL-M12WM8W-4-10U	B.5
1906390000	SAIS-5/7-ZF	C.5
1906390000	SAIS-5/7-ZF	C.11
1906400150	SAIL-M8BW-4L1.5U	B.23
1906410150	SAIL-M12GM12W-4-2L1.5U	B.8
1906410150	SAIL-M12GM12W-4-2L1.5U	B.32
1906410300	SAIL-M12GM12W-4-2L3.0U	B.8
1906410500	SAIL-M12GM12W-4-2L5.0U	B.8
1906411000	SAIL-M12GM12W-4-2L10U	B.8
1906430150	SAIL-M12GM8W-4L1.5U	B.36
1906450150	SAIL-M8GM8W-4L1.5U	B.40
1906470150	SAIL-M12G-3S1.5U	B.17
1906480150	SAIL-M12G-4S1.5U	B.17
1906500150	SAIL-M12W-3S1.5U	B.17
1906520150	SAIL-M12W-5S1.5U	B.17
1906540150	SAIL-M12W-5S1.5U	B.17
190660150	SAIL-M8G-3S1.5U	B.21
1906670150	SAIL-M8G-4S1.5U	B.21
1906580150	SAIL-M8W-3S1.5U	B.21
1906590150	SAIL-M8W-4S1.5U	B.21
1906600150	SAIL-M8G-3S1.5U	B.21
1906610150	SAIL-M8G-4S1.5U	B.21
1906620150	SAIL-M8BW-3S1.5U	B.21
1906630150	SAIL-M8BW-4S1.5U	B.21
1906890150	SAIL-M12BW-3S1.5U	B.17
1909500000	VG M16 - MS 1/EMV	J.83
1909860000	VG M16-1/K68	J.83
1909910000	VG M16-1/MS68	J.83

1920700001	SAIS 5/9-VA D-CDD	J.77
1920710000	SAIB 5/9-VA	C.15
1920710000	SAIB 5/9-VA	H.27
1920710000	SAIB 5/9-VA	J.38
1920720000	SAIS 5/9-VA-B-CDD	C.15
1920720000	SAIS 5/9-VA-B-CDD	H.27
1920720000	SAIS 5/9-VA-B-CDD	J.10
1920730000	SAIB 5/9-VA-B-CDD	C.15
1920730000	SAIB 5/9-VA-B-CDD	H.27
1920730000	SAIB 5/9-VA-B-CDD	J.10
1920970000	SAIBW-M8-3P(TL)	C.6
1920970000	SAIBW-M8-3P(TL)	C.26
1920980000	SAIBW-M8-4P(TL)	C.6
1920980000	SAIBW-M8-4P(TL)	C.26
1920990000	SAISW-M8-3P(TL)	C.6
1920990000	SAISW-M8-3P(TL)	C.26
1921000000	SAISW-M8-4P(TL)	C.6
1921000000	SAISW-M8-4P(TL)	C.26
1921010000	SAIBM-M8-3P(TL)	C.6
1921010000	SAIBM-M8-3P(TL)	C.26
1921020000	SAIBM-M8-4P(TL)	C.6
1921020000	SAIBM-M8-4P(TL)	C.26
1921030000	SAISM-M8-3P(TL)	C.5
1921030000	SAISM-M8-3P(TL)	C.25
1921040000	SAISM-M8-4P(TL)	C.6
1921040000	SAISM-M8-4P(TL)	C.25
1921050000	SAIS-5/7-(KV)	C.9
1921060000	SAIS-4/7-(KV)	C.9
1921070000	SAIS-5/7-(KV)	C.9
1921080000	SAIB-4/7-(KV)	C.9
1924950000	SAIS-12/9-(TL)	C.5
1924960000	SAIS-12/9-(TL)	C.10
1924960000	SAIB-12/9-(TL)	C.10
1924970000	SAIS-5/7-ZF	C.5
1924970000	SAIS-5/7-ZF	C.11
1924980000	SAI-ASI T FFR	J.61
1925010000	SAI-ASI T FR	J.60
1925300150	SAIL-M12GM12G-3-1.5U	B.6
1925300150	SAIL-M12GM12G-3-1.5U	B.29
1925300300	SAIL-M12GM12G-3-3.0U	B.6
1925300500	SAIL-M12GM12G-3-5.0U	B.6
1925301000	SAIL-M12GM12G-3-10U	B.6
1925310150	SAIL-M12GM12G-4-1.5U	B.6
1925310150	SAIL-M12GM12G-4-1.5U	B.29
1925310300	SAIL-M12GM12G-4-3.0U	B.6
1925310500	SAIL-M12GM12G-4-5.0U	B.6
1925311000	SAIL-M12GM12G-4-10U	B.6
1925320150	SAIL-M12GM12G-5-1.5U	B.7
1925320150	SAIL-M12GM12G-5-1.5U	B.29
1925320300	SAIL-M12GM12G-5-3.0U	B.7
1925320500	SAIL-M12GM12G-5-5.0U	B.7
1925321000	SAIL-M12GM12G-5-10U	B.7
1925330150	SAIL-M12GM12G-2/4-1.5U	B.31
1925340150	SAIL-M12GM12W-3-1.5U	B.7
1925340150	SAIL-M12GM12W-3-1.5U	B.29
1925340300	SAIL-M12GM12W-3-3.0U	B.7
1925340500	SAIL-M12GM12W-3-5.0U	B.7
1925341000	SAIL-M12GM12W-3-10U	B.7
1925350150	SAIL-M12GM12W-4-1.5U	B.7
1925350150	SAIL-M12GM12W-4-1.5U	B.29
1925350300	SAIL-M12GM12W-4-3.0U	B.7
1925350500	SAIL-M12GM12W-4-5.0U	B.7
1925351000	SAIL-M12GM12W-4-10U	B.7
1925360150	SAIL-M12GM12W-5-1.5U	B.7
1925360150	SAIL-M12GM12W-5-1.5U	B.29
1925360300	SAIL-M12GM12W-5-3.0U	B.7
1925360500	SAIL-M12GM12W-5-5.0U	B.7
1925361000	SAIL-M12GM12W-5-10U	B.7
1925370150	SAIL-M12GM12W-2/4-1.5U	B.31
1925380150	SAIL-M12WM12W-3-1.5U	B.7
1925380150	SAIL-M12WM12W-3-1.5U	B.29
1925380300	SAIL-M12WM12W-3-3.0U	B.7
1925380500	SAIL-M12WM12W-3-5.0U	B.7
1925381000	SAIL-M12WM12W-3-10U	B.7
1925390150	SAIL-M12WM12W-4-1.5U	B.7
1925390150	SAIL-M12WM12W-4-1.5U	B.29
1925390300	SAIL-M12WM12W-4-3.0U	B.7
1925390500	SAIL-M12WM12W-4-5.0U	B.7
1925391000	SAIL-M12WM12W-4-10U	B.7
1925400150	SAIL-M12WM12W-5-1.5U	B.7
1925400300	SAIL-M12WM12W-5-3.0U	B.29
1925400500	SAIL-M12WM12W-5-5.0U	B.7
1925401000	SAIL-M12WM12W-5-10U	B.7
1925410150	SAIL-M12GM12W-3L1.5U	B.8
1925410150	SAIL-M12GM12W-3L1.5U	B.32
1925410300	SAIL-M12GM12W-3L3.0U	B.8
1925410500	SAIL-M12GM12W-3L5.0U	B.8
1925411000	SAIL-M12GM12W-3L10U	B.8
1925420150	SAIL-M12GM12W-4-2L1.5U	B.8
1925420150	SAIL-M12GM12W-4-2L1.5U	B.32
1925420300	SAIL-M12GM12W-4-2L3.0U	B.8
1925420500	SAIL-M12GM12W-4-2L5.0U	B.8
1925421000	SAIL-M12GM12W-4-2L10U	B.8
1925430150	SAIL-M12G-3-1.5U	B.8
1925430150	SAIL-M12G-3-1.5U	B.11
1925430300	SAIL-M12G-3-3.0U	B.4
1925430500	SAIL-M12G-3-5.0U	B.4

19254310

Order No.	Type	Page
1927220150	SAIL-M8WM8W4-1.5V	B.5
1927220150	SAIL-M8WM8W4-1.5V	B.38
1927220300	SAIL-M8WM8W4-3.0V	B.5
1927220500	SAIL-M8WM8W4-4.5V	B.5
1927221000	SAIL-M8WM8W4-10V	B.5
1927230150	SAIL-M8G-3-1.5V	B.4
1927230150	SAIL-M8G-3-1.5V	B.19
1927230300	SAIL-M8G-3-3.0V	B.4
1927230500	SAIL-M8G-3-5.0V	B.4
1927231000	SAIL-M8G-3-10V	B.4
1927240150	SAIL-M8BG-3-1.5V	B.4
1927240150	SAIL-M8BG-3-1.5V	B.19
1927240300	SAIL-M8BG-3-3.0V	B.4
1927240500	SAIL-M8BG-3-5.0V	B.4
1927241000	SAIL-M8BG-3-10V	B.4
1927250150	SAIL-M8G-4-1.5V	B.4
1927250150	SAIL-M8G-4-1.5V	B.19
1927250300	SAIL-M8G-4-3.0V	B.4
1927250500	SAIL-M8G-4-5.0V	B.4
1927251000	SAIL-M8G-4-10V	B.4
1927260150	SAIL-M8BG-4-1.5V	B.5
1927260150	SAIL-M8BG-4-1.5V	B.19
1927260300	SAIL-M8BG-4-3.0V	B.5
1927260500	SAIL-M8BG-4-5.0V	B.5
1927261000	SAIL-M8BG-4-10V	B.5
1927310150	SAIL-M8W-3-1.5V	B.4
1927310150	SAIL-M8W-3-1.5V	B.19
1927310300	SAIL-M8W-3-3.0V	B.4
1927310500	SAIL-M8W-3-5.0V	B.4
1927311000	SAIL-M8W-3-10V	B.4
1927320150	SAIL-M8BW-3-1.5V	B.5
1927320150	SAIL-M8BW-3-1.5V	B.19
1927320300	SAIL-M8BW-3-3.0V	B.5
1927320500	SAIL-M8BW-3-5.0V	B.5
1927321000	SAIL-M8BW-3-10V	B.5
1927330150	SAIL-M8W-4-1.5V	B.4
1927330150	SAIL-M8W-4-1.5V	B.19
1927330300	SAIL-M8W-4-3.0V	B.4
1927330500	SAIL-M8W-4-5.0V	B.4
1927331000	SAIL-M8W-4-10V	B.4
1927340150	SAIL-M8BW-4-1.5V	B.5
1927340150	SAIL-M8BW-4-1.5V	B.19
1927340300	SAIL-M8BW-4-3.0V	B.5
1927340500	SAIL-M8BW-4-5.0V	B.5
1927341000	SAIL-M8BW-4-10V	B.5
1927350150	SAIL-M8BW-3L1.5V	B.5
1927350150	SAIL-M8BW-3L1.5V	B.23
1927350300	SAIL-M8BW-3L3.0V	B.5
1927350500	SAIL-M8BW-3L5.0V	B.5
1927351000	SAIL-M8BW-3L10V	B.5
1927360150	SAIL-M8BW-4L1.5V	B.23

1930000000

1932300000	SAI-6S-3P-M8-L-OL	H.48
1933640000	SAIH-PB-2X0-34-PVC	J.9
1934200000	PB-SUB-D-ZF-TERM-PS	J.25
1935610000	SAIBW-4/7-(KV)	C.9
1937950150	SAIL-M8GM12G-3-1.5V	B.6
1937950300	SAIL-M8GM12G-3-3.0V	B.6
1937950500	SAIL-M8GM12G-3-5.0V	B.6
1937951000	SAIL-M8GM12G-3-10V	B.6
1937960150	SAIL-M8GM12W-3-1.5V	B.7
1937960300	SAIL-M8GM12W-3-3.0V	B.7
1937960500	SAIL-M8GM12W-3-5.0V	B.7
1937961000	SAIL-M8GM12W-3-10V	B.7
1937970150	SAIL-M8WM12W-3-1.5V	B.7
1937970300	SAIL-M8WM12W-3-3.0V	B.7
1937970500	SAIL-M8WM12W-3-5.0V	B.7
1937971000	SAIL-M8WM12W-3-10V	B.7
1937980150	SAIL-M8GM12G-4-1.5V	B.6
1937980300	SAIL-M8GM12G-4-3.0V	B.6
1937980500	SAIL-M8GM12G-4-5.0V	B.6
1937981000	SAIL-M8GM12G-4-10V	B.6
1937990150	SAIL-M8GM12W-4-1.5V	B.7
1937990300	SAIL-M8GM12W-4-3.0V	B.7
1937990500	SAIL-M8GM12W-4-5.0V	B.7
1937991000	SAIL-M8GM12W-4-10V	B.7
1938000150	SAIL-M8WM12W-4-1.5V	B.7
1938000300	SAIL-M8WM12W-4-3.0V	B.7
1938000500	SAIL-M8WM12W-4-5.0V	B.7
1938001000	SAIL-M8WM12W-4-10V	B.7
1938170150	SAIL-M12GM8G-3-1.5V	B.4
1938170150	SAIL-M12GM8G-3-1.5V	B.33
1938170300	SAIL-M12GM8G-3-3.0V	B.4
1938170500	SAIL-M12GM8G-3-5.0V	B.4
1938171000	SAIL-M12GM8G-3-10V	B.4
1938180150	SAIL-M12GM8W-3-1.5V	B.5
1938180150	SAIL-M12GM8W-3-1.5V	B.33
1938180300	SAIL-M12GM8W-3-3.0V	B.5
1938180500	SAIL-M12GM8W-3-5.0V	B.5
1938181000	SAIL-M12GM8W-3-10V	B.5
1938190150	SAIL-M12WM8W-3-1.5V	B.5
1938190150	SAIL-M12WM8W-3-1.5V	B.33
1938190300	SAIL-M12WM8W-3-3.0V	B.5
1938190500	SAIL-M12WM8W-3-5.0V	B.5
1938191000	SAIL-M12WM8W-3-10V	B.5
1938200150	SAIL-M12GM8G-4-1.5V	B.5
1938200150	SAIL-M12GM8G-4-1.5V	B.33

Order No.	Type	Page
1938200300	SAIL-M12GM8G-4-3.0V	B.5
1938200500	SAIL-M12GM8G-4-5.0V	B.5
1938201000	SAIL-M12GM8G-4-10V	B.5
1938210150	SAIL-M12GM8W-4-1.5V	B.5
1938210150	SAIL-M12GM8W-4-1.5V	B.33
1938210300	SAIL-M12GM8W-4-3.0V	B.5
1938210500	SAIL-M12GM8W-4-5.0V	B.5
1938211000	SAIL-M12GM8W-4-10V	B.5
1938220150	SAIL-M12WM8W-4-1.5V	B.5
1938220150	SAIL-M12WM8W-4-1.5V	B.33
1938220300	SAIL-M12WM8W-4-3.0V	B.5
1938220500	SAIL-M12WM8W-4-5.0V	B.5
1938221000	SAIL-M12WM8W-4-10V	B.5
1938230150	SAIL-M8GM12G-3-1.5V	B.6
1938230300	SAIL-M8GM12G-3-3.0V	B.6
1938230500	SAIL-M8GM12G-3-5.0V	B.6
1938231000	SAIL-M8GM12G-3-10V	B.6
1938240150	SAIL-M8GM12W-3-1.5V	B.7
1938240300	SAIL-M8GM12W-3-3.0V	B.7
1938240500	SAIL-M8GM12W-3-5.0V	B.7
1938241000	SAIL-M8GM12W-3-10V	B.7
1938250150	SAIL-M8WM12W-3-1.5V	B.7
1938250300	SAIL-M8WM12W-3-3.0V	B.7
1938250500	SAIL-M8WM12W-3-5.0V	B.7
1938251000	SAIL-M8WM12W-3-10V	B.7
1938260150	SAIL-M8GM12G-4-1.5V	B.6
1938260300	SAIL-M8GM12G-4-3.0V	B.6
1938260500	SAIL-M8GM12G-4-5.0V	B.6
1938261000	SAIL-M8GM12G-4-10V	B.6
1938270150	SAIL-M8GM12W-4-1.5V	B.7
1938270300	SAIL-M8GM12W-4-3.0V	B.7
1938270500	SAIL-M8GM12W-4-5.0V	B.7
1938271000	SAIL-M8GM12W-4-10V	B.7
1938280150	SAIL-M8WM12W-4-1.5V	B.7
1938280300	SAIL-M8WM12W-4-3.0V	B.7
1938280500	SAIL-M8WM12W-4-5.0V	B.7
1938281000	SAIL-M8WM12W-4-10V	B.7
1938300000	SAI-SSA-PG7	C.56
1939170000	SAI-SCREWTY TOOL BOX	M.6
1939180000	SAI-SCREWTY BOX	M.6
1939370150	SAIV-M12BW-2/4-1.5V	B.13
1939410150	SAIV-M12BG-2/4-1.5V	B.13

1940000000

1944570000	SAISW-M-5/8 M12 B-COD	C.16
1944570000	SAISW-M-5/8 M12 B-COD	C.5
1944570000	SAISW-M-5/8 M12 B-COD	J.11
1944570000	SAISW-M-5/8 M12 B-COD	C.5
1944580000	SAIBW-M-5/8 M12 B-COD	C.16
1944580000	SAIBW-M-5/8 M12 B-COD	C.16
1944840150	SAIL-M8GM8GR-3-1.5V	B.39
1944840150	SAIL-M8GM8GR-3-1.5V	B.39
19448490150	SAIL-M8WM8WR-3-1.5V	B.39
1944850150	SAIL-M8GM8GR-4-1.5V	B.39
19448510150	SAIL-M8GM8WR-4-1.5V	B.39
19448520150	SAIL-M8WM8WR-4-1.5V	B.39
19448530150	SAIL-M8BGR-4-1.5V	B.20
19448540150	SAIL-M8BWR-4-1.5V	B.20
1944860150	SAIL-M8GM8GR-3-1.5V	B.39
19448610150	SAIL-M8GM8WR-3-1.5V	B.39
19448670150	SAIL-M8WM8WR-3-1.5V	B.39
19448680150	SAIL-M8GM8GR-4-1.5V	B.39
19448690150	SAIL-M8GM8WR-4-1.5V	B.39
1944870150	SAIL-M8WM8WR-4-1.5V	B.39
1948710150	SAIL-M8BGR-3-1.5V	B.20
1948720150	SAIL-M8BWR-3-1.5V	B.20
1948730150	SAIL-M8BGR-4-1.5V	B.20
1948740150	SAIL-M8BWR-4-1.5V	B.20

1950000000

1950270000	SAIE-EW-M20/PCG-SW24-VA	J.39
1955340000	SAIEND CAN M8 4P	J.64

1960000000

1962290150	SAIL-M12GM8W-3L1.5V	B.36
1962300150	SAIL-M12GM8W-4L1.5V	B.36
1962610000	SAISW-5/7-(KV)	C.9
1962620000	SAISW-4/7-(KV)	C.9
1962630000	SAIBW-5/7-(KV)	C.9
1962800150	SAIL-M12BG-B-USB-1.5V	B.37
1963910150	SAIL-M12GM12W-4-3L1.5V	B.32
1963930150	SAIL-M12GM12W-4-3L1.5V	B.32
1963940150	SAIL-M12BW-4-3L1.5V	B.16
1963960150	SAIL-M12BW-4-3L1.5V	B.16
1964280150	SAIL-ZW-M12BW-2/4-1.5V	B.43
1964290150	SAIL-ZW-M12BW-2/4L1.5V	B.45
1964300150	SAIL-ZW-M8BW-3-1.5V	B.44
1964310150	SAIL-ZW-3-1.5V	B.18
1964690150	SAIL-M12BG-CD-1.5A	J.62
1964700150	SAIL-M12G-CD-1.5A	J.62
1964710150	SAIL-M12GM12G-CD-1.5A	J.63
1966170000	SAI AD 54	L.6
1966170000	SAI AD 54	L.13
1966180000	SAI BFSC M3x10	L.13
1966180000	SAI BFSC M3x10	L.13
1966180000	SAI BFSC M3x10	L.13

Order No.	Type	Page
1966190000	SAI BP 54 KU	L.6
1966190000	SAI BP 54 KU	L.13
1966200000	SAI SIBL GH	L.6
1966200000	SAI SIBL GH	L.13
1968560150	SAIL-M12BW-3-1.5T	B.11
1968570150	SAIL-M12BW-4-1.5T	B.11
1968580150	SAIL-M12BG-4-1.5T	B.11
1968590150	SAIL-M12BG-3-1.5T	B.11

1980000000

1981560000	Screwty M23	M.5
1981900030	SAIL-M8GM8G-4S-0.3U-SB	J.64
1981900100	SAIL-M8GM8G-4S-1.0U-SB	J.64
1981900150	SAIL-M8GM8G-4S-1.5U-SB	J.64
1981900300	SAIL-M8GM8G-4S-3.0U-SB	J.64
1981900500	SAIL-M8GM8G-4S-5.0U-SB	J.64
1981901000	SAIL-M8GM8G-4S-10U-SB	J.64
1981901500	SAIL-M8GM8G-4S-15U-SB	J.64
1981902000	SAIL-M8GM8G-4S-20U-SB	J.64
1981901500	SAIL-M8GM8G-4S-1.5U-SB	J.64
1981910300	SAIL-M8BG-4S-3.0U-SB	J.64
1981910500	SAIL-M8BG-4S-5.0U-SB	J.64
1981911000	SAIL-M8BG-4S-10U-SB	J.64
1984530150	SAIL-M12GM8GR-3-1.5U	B.34

1990000000

1995800000	SAI-M23-GS-L7/12	F.30
1995810000	SAI-M23-BE-L4	F.32
1995820000	SAI-M23-KBC-0.75/2.50	F.33
1995820000	SAI-M23-KBC-0.75/2.50	M.14
1995830000	SAI-M23-KBC-0.25/1.00	F.33
1995830000	SAI-M23-KBC-0.25/1.00	M.14
1995850000	SAI-M23-BE-12	F.18
1995860000	SAI-M23-KBC-0.08/0.56	F.20
1995860000	SAI-M23-KBC-0.08/0.56	M.14
1995860000	SAI-M23-KBC-0.08/0.56	M.15

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2005040000	RIBBON MM 80/300 WS	M.23
2005070000	RIBBON MM 110/360 SW	M.23
2005080000	RIBBON MM 80/360 SW	M.23
2005090000	RIBBON MM-TB 25/360 SW	M.23
2009620000	SAI-4-M-MVV-M12 1:1	G.23

2040000000

2049950150	SAIL-M12BG-S3-1.5P	G.8
2049950300	SAIL-M12BG-S3-3.0P	G.8
2049950500	SAIL-M12BG-S3-5.0P	G.8
2049951000	SAIL-M12BG-S3-10P	G.8

2050000000

2050010150	SAIL-M12BW-S3-1.5P	G.8
2050010300	SAIL-M12BW-S3-3.0P	G.8
2050010500	SAIL-M12BW-S3-5.0P	G.8
2050011000	SAIL-M12BW-S3-10P	G.8
2050020150	SAIL-M12G-S3-1.5P	G.8
2050020300	SAIL-M12G-S3-3.0P	G.8
2050020500	SAIL-M12G-S3-5.0P	G.8
2050021000	SAIL-M12G-S3-10P	G.8
2050050150	SAIL-M12W-S3-1.5P	G.8
2050050300	SAIL-M12W-S3-3.0P	G.8
2050050500	SAIL-M12W-S3-5.0P	G.8
2050051000	SAIL-M12W-S3-10P	G.8
2050060150	SAIL-M12GM12G-S3-1.5P	G.9
2050060300	SAIL-M12GM12G-S3-3.0P	G.9
2050060500	SAIL-M12GM12G-S3-5.0P	G.9
2050061000	SAIL-M12GM12G-S3-10P	G.9
2050080150	SAIL-M12WM12G-S3-1.5P	G.9
2050080300	SAIL-M12WM12G-S3-3.0P	G.9
2050080500	SAIL-M12WM12G-S3-5.0P	G.9
2050081000	SAIL-M12WM12G-S3-10P	G.9
2050100300	SAIL-M12GM12W-S3-3.0P	G.9
2050100500	SAIL-M12GM12W-S3-5.0P	

Order No.	Type	Page
2326170000	B KOTR M12 5P A BU SAI	L.13
2326170000	B KOTR M12 5P A BU SAI	L.13

2330000000

2330260000	SAI-SK-M12JUNI	C.37
2332380000	B KOTR M8 3P BU SAI	L.7
2332380000	B KOTR M8 3P BU SAI	L.13

2340000000

2341480000	B KOTR M12 4P D BU SAI	L.6
2341480000	B KOTR M12 4P D BU SAI	L.9
2341480000	B KOTR M12 4P D BU SAI	L.10
2341480000	B KOTR M12 4P D BU SAI	L.13
2341480000	B KOTR M12 4P D BU SAI	L.13
2341480000	B KOTR M12 4P D BU SAI	L.13

2350000000

2350590000	B KOTR B M12 4POL D BU	L.7
2350590000	B KOTR B M12 4POL D BU	L.13
2350600000	B KOTR B M12 5POL A BU	L.7
2350600000	B KOTR B M12 5POL A BU	L.13
2350610000	B KOTR B M12 5POL A SF	L.7
2350610000	B KOTR B M12 5POL A SF	L.10
2350610000	B KOTR B M12 5POL A SF	L.13
2350610000	B KOTR B M12 5POL A SF	L.13
2350620000	B KOTR B M12 5POL B BU	L.7
2350620000	B KOTR B M12 5POL B BU	L.13
2350630000	B KOTR B M12 5POL B SF	L.7
2350630000	B KOTR B M12 5POL B SF	L.13
2350640000	B KOTR BUS M8 4POL BU	L.7
2350640000	B KOTR BUS M8 4POL BU	L.9
2350640000	B KOTR BUS M8 4POL BU	L.10
2350640000	B KOTR BUS M8 4POL BU	L.13
2350640000	B KOTR BUS M8 4POL BU	L.13
2350650000	B KOTR BUS M8 4POL SF	L.9
2350650000	B KOTR BUS M8 4POL SF	L.10
2350650000	B KOTR BUS M8 4POL SF	L.13
2350650000	B KOTR BUS M8 4POL SF	L.13

2420000000

2421570000	SAIE-M8S-3-H5.5TL	D.6
2421580000	SAIE-M8S-4-H5.5TL	D.6
2421590000	SAIE-M8S-5B-H5.5TL	D.6
2421600000	SAIE-M12B-4-H5.5TL-M16	D.22
2421610000	SAIE-M8B-4-H5.5TL	D.6
2421620000	SAIE-M12B-8-H5.5TL-M16	D.22
2421630000	SAIE-M8B-5B-H5.5TL	D.6
2421640000	SAIE-M12B-8-H5.5TL-M16	D.22
2421650000	SAIE-M8B-8-H5.5TL	D.6
2421660000	SAIE-M12B-4-H12TL-M16	D.22
2421680000	SAIE-M12B-5-H12TL-M16	D.22
2421690000	SAIE-M8S-8-H5.5TL	D.6
2421700000	SAIE-M12SB-4-H5.5TL-PG9	D.25
2421710000	SAIE-M12B-8-H12TL-M16	D.22
2421720000	SAID-M8B-3-SMT	D.4
2421720000	SAID-M8B-3-SMT	D.17
2421730000	SAIE-M12SB-4-H12TL-PG9	D.25
2421740000	SAIE-M12S-4-H5.5TL-M16	D.22
2421750000	SAID-M8S-3-SMT	D.4
2421750000	SAID-M8S-3-SMT	D.17
2421760000	SAIE-M12B-8-F10TL	D.28
2421770000	SAIE-M12S-5-H5.5TL-M16	D.22
2421780000	SAID-M8B-3S-SMT	D.4
2421780000	SAID-M8B-3S-SMT	D.17
2421790000	SAIE-M12B-8S-F10TL	D.33
2421800000	SAIE-M12S-8-H5.5TL-M16	D.22
2421810000	SAID-M8S-3S-SMT	D.4
2421810000	SAID-M8S-3S-SMT	D.17
2421820000	SAIE-M12B-8-H10TL	D.28
2421830000	SAIE-M12S-4-H12TL-M16	D.22
2421840000	SAID-M8B-4-SMT	D.4
2421840000	SAID-M8B-4-SMT	D.17
2421850000	SAIE-M12B-8S-H10TL	D.33
2421860000	SAIE-M12S-5-H12TL-M16	D.22
2421870000	SAID-M8S-4-SMT	D.4
2421870000	SAID-M8S-4-SMT	D.17
2421880000	SAIE-M12B-4S-H6.75TL	D.26
2421890000	SAIE-M12S-8-H12TL-M16	D.22
2421900000	SAID-M8B-4S-SMT	D.4
2421900000	SAID-M8B-4S-SMT	D.17
2421910000	SAIE-M12B-5S-H6.75TL	D.26
2421920000	SAIE-M12B-4-H5.5TL-PG9	D.23
2421930000	SAID-M8S-4S-SMT	D.4
2421930000	SAID-M8S-4S-SMT	D.17
2421940000	SAIE-M12B-8S-H6.75TL	D.26
2421950000	SAIE-M12B-4-H12TL-PG9	D.23
2421960000	SAID-M8B-5-SMT	D.4
2421960000	SAID-M8B-5-SMT	D.17
2421970000	SAIE-M12B-4S-H6.75TL	D.26
2421980000	SAIE-M12B-5-H5.5TL-PG9	D.23
2421990000	SAID-M8S-5-SMT	D.4
2421990000	SAID-M8S-5-SMT	D.17
2422000000	SAIE-M12B-4S-H6.75TL	D.26
2422010000	SAIE-M12B-5-H12TL-PG9	D.23

Order No.	Type	Page
2422020000	SAID-M8B-5S-SMT	D.4
2422020000	SAID-M8B-5S-SMT	D.17
2422040000	SAIE-M12B-8-H5.5TL-PG9	D.23
2422050000	SAID-M8S-5S-SMT	D.4
2422050000	SAID-M8S-5S-SMT	D.17
2422060000	SAID-M12B-8-SMT	D.5
2422060000	SAID-M12B-4-9SMT	D.39
2422070000	SAIE-M12B-8-H12TL-PG9	D.23
2422080000	SAID-M8B-8-SMT	D.4
2422080000	SAID-M8B-8-SMT	D.17
2422090000	SAID-M12B-4-9SMT-TR	D.40
2422100000	SAIE-M12S-4-H5.5TL-PG9	D.23
2422110000	SAID-M8S-8-SMT	D.4
2422110000	SAID-M8S-8-SMT	D.17
2422120000	SAID-M12B-5-9SMT	D.5
2422120000	SAID-M12B-5-9SMT	D.39
2422130000	SAIE-M12S-4-H12TL-PG9	D.23
2422140000	SAID-M8B-8S-SMT	D.4
2422140000	SAID-M8B-8S-SMT	D.17
2422150000	SAID-M12B-5-9SMT-TR	D.40
2422160000	SAIE-M12S-5-H5.5TL-PG9	D.23
2422170000	SAID-M8S-8S-SMT	D.4
2422170000	SAID-M8S-8S-SMT	D.17
2422180000	SAID-M12B-4S-9SMT	D.5
2422180000	SAID-M12B-4S-9SMT	D.39
2422190000	SAIE-M12S-5-H12TL-PG9	D.23
2422200000	SAIE-M8B-3-F9SMT	D.14
2422210000	SAID-M12B-4S-9SMT-TR	D.40
2422220000	SAIE-M12S-8-H5.5TL-PG9	D.23
2422230000	SAIE-M8B-3-F13SMT	D.14
2422240000	SAID-M12B-5S-9SMT	D.5
2422240000	SAID-M12B-5S-9SMT	D.39
2422250000	SAIE-M12S-8-H12TL-PG9	D.23
2422260000	SAIE-M8S-3-F9SMT	D.14
2422270000	SAID-M12B-5S-9SMT-TR	D.40
2422280000	SAIE-M12B-4D-H12TL-M16	D.24
2422290000	SAIE-M8S-3-F13SMT	D.14
2422300000	SAIE-M12B-4-9SMT	D.36
2422310000	SAIE-M12B-4B-H5.5TL-M16	D.24
2422320000	SAIE-M8S-3S-F9SMT	D.16
2422330000	SAIE-M12B-5-9SMT	D.36
2422340000	SAIE-M12B-4B-H12TL-M16	D.24
2422350000	SAIE-M8S-3S-F13SMT	D.16
2422360000	SAIE-M12B-4S-9SMT	D.37
2422370000	SAIE-M12S-4B-H5.5TL-M16	D.24
2422380000	SAIE-M8B-4-H6SMT	D.15
2422390000	SAIE-M12B-5S-9SMT	D.37
2422400000	SAIE-M12S-4B-H12TL-M16	D.24
2422410000	SAIE-M8B-4S-F9SMT	D.16
2422420000	SAID-M12S-8-9SMT	D.5
2422420000	SAID-M12S-8-9SMT	D.39
2422430000	SAIE-M12B-4D-H5.5TL-M16	D.24
2422440000	SAIE-M8B-4S-F13SMT	D.16
2422450000	SAIE-M12B-8-9SMT-TR	D.40
2422460000	SAIE-M12B-4-F10TL	D.28
2422470000	SAIE-M8S-4-F9SMT	D.14
2422480000	SAID-M12B-8-9SMT	D.5
2422490000	SAIE-M12B-4S-F10TL	D.33
2422500000	SAIE-M8S-4-F13SMT	D.14
2422510000	SAID-M12B-8-9SMT-TR	D.40
2422520000	SAIE-M12B-5-F10TL	D.28
2422530000	SAIE-M8S-4-H6SMT	D.15
2422540000	SAID-M12S-4-9SMT	D.5
2422540000	SAID-M12S-4-9SMT	D.39
2422550000	SAIE-M12B-5-F10TL	D.33
2422560000	SAIE-M8S-4S-F9SMT	D.5
2422560000	SAIE-M8S-4S-F9SMT	D.16
2422570000	SAID-M12S-4-9SMT-TR	D.40
2422580000	SAIE-M12S-4-F10TL	D.28
2422590000	SAIE-M8S-4S-F13SMT	D.16
2422600000	SAID-M12S-5-9SMT	D.5
2422600000	SAID-M12S-5-9SMT	D.39
2422610000	SAIE-M12S-4S-F10TL	D.33
2422620000	SAIE-M8S-4S-H10SMT	D.15
2422630000	SAID-M12S-5-9SMT-TR	D.40
2422640000	SAIE-M12S-5-F10TL	D.28
2422650000	SAIE-M8B-5-F9SMT	D.14
2422670000	SAIE-M12S-5S-F10TL	D.33
2422680000	SAIE-M8B-5-F13SMT	D.14
2422700000	SAIE-M12B-4-H10TL	D.28
2422710000	SAIE-M8B-8S-F9SMT	D.16
2422720000	SAID-M12SB-4S-9SMT	D.5
2422720000	SAID-M12SB-4S-9SMT	D.41
2422730000	SAIE-M12B-4S-H10TL	D.33
2422740000	SAIE-M8B-8S-F13SMT	D.16
2422750000	SAID-M12SB-4S-9SMT-TR	D.42
2422760000	SAIE-M12B-5-H10TL	D.28
2422770000	SAIE-M8B-8S-H10SMT	D.15
2422780000	SAID-M12SB-5S-9SMT	D.5
2422780000	SAID-M12SB-5S-9SMT	D.41
2422790000	SAIE-M12B-5S-H10TL	D.33
2422800000	SAIE-M8B-3-F9THR	D.10
2422810000	SAID-M12SB-5S-9SMT-TR	D.42
2422820000	SAIE-M12S-4-H10TL	D.28
2422830000	SAIE-M8B-3-F13THR	D.10
2422840000	SAID-M12B-4S-9SMT	D.5
2422840000	SAID-M12B-4S-9SMT	D.41
2422850000	SAIE-M12S-4S-H10TL	D.33

Order No.	Type	Page
2422860000	SAIE-M8S-3-F9THR	D.10
2422870000	SAID-M12BB-4S-9SMT-TR	D.42
2422880000	SAIE-M12S-5-H10TL	D.28
2422890000	SAIE-M8S-3-F13THR	D.10
2422900000	SAID-M12BB-5S-9SMT	D.5
2422900000	SAID-M12BB-5S-9SMT	D.41
2422910000	SAIE-M12S-5S-H10TL	D.33
2422920000	SAIE-M8S-3S-F9THR	D.12
2422930000	SAID-M12BB-5S-9SMT-TR	D.42
2422940000	SAIE-M12B-4-F5.5TL	D.27
2422950000	SAIE-M8S-3-F13THR	D.12
2422960000	SAID-M12B-4S-9SMT	D.5
2422960000	SAID-M12B-4S-9SMT	D.41
2422970000	SAIE-M12B-4S-F5.5TL	D.32
2422980000	SAIE-M8B-4-H6THR	D.11
2422990000	SAID-M12B-4S-9SMT-TR	D.42
2423000000	SAIE-M12B-5-F5.5TL	D.27
2423010000	SAIE-M8B-4S-F9THR	D.12
2423020000	SAIE-M12B-4-13/14SMT	D.36
2423030000	SAIE-M12B-5S-F5.5TL	D.32
2423040000	SAIE-M8B-4-F13THR	D.12
2423050000	SAIE-M12B-5-13/14SMT	D.36
2423060000	SAIE-M12S-4-F5.5TL	D.27
2423070000	SAIE-M8S-4-F9THR	D.10
2423080000	SAIE-M12B-8-13/14SMT	D.36
2423090000	SAIE-M12S-4S-F5.5TL	D.32
2423100000	SAIE-M8S-4-F13THR	D.12
2423110000	SAIE-M12B-4S-13/14SMT	D.37
2423120000	SAIE-M12S-4-F5.5TL	D.27
2423130000	SAIE-M8S-4-H6THR	D.11
2423140000	SAIE-M12B-5S-13/14SMT	D.37
2423150000	SAIE-M12S-5S-F5.5TL	D.32
2423160000	SAIE-M8S-4-F9THR	D.12
2423170000	SAIE-M12B-8S-13/14SMT	D.37
2423180000	SAIE-M12B-4-H5.5TL	D.27
2423200000	SAIE-M12S-4-9/14SMT	D.36
2423210000	SAIE-M12B-4S-H5.5TL	D.32
2423220000	SAIE-M8S-4S-H10THR	D.11
2423230000	SAIE-M12S-5-9/14SMT	D.36
2423240000	SAIE-M12B-5-H5.5TL	D.27
2423250000	SAIE-M8B-5-F9THR	D.10
2423260000	SAIE-M12S-8-9/14SMT	D.36
2423270000	SAIE-M12B-5S-H5.5TL	D.32
2423280000	SAIE-M8B-5-F13THR	D.37
2423290000	SAIE-M12S-4S-9/14SMT	D.30
2423300000	SAIE-M12S-4-H5.5TL	D.27
2423310000	SAIE-M8B-8S-F9THR	D.12
2423320000	SAIE-M12S-5S-9/14SMT	D.37
2423330000	SAIE-M12S-4S-H5.5TL	

Order No.	Type	Page
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2440000000

244880000	RIBBON MM-HS 60/300 SW	M.23
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2450000000

2455150150	SAIL-M12BG-K-1.5P	G.6
2455150300	SAIL-M12BG-K-3.0P	G.6
2455150500	SAIL-M12BG-K-5.0P	G.6
2455151000	SAIL-M12BG-K-10P	G.6
2455190150	SAIL-M12BW-K-1.5P	G.6
2455190300	SAIL-M12BW-K-3.0P	G.6
2455190500	SAIL-M12BW-K-5.0P	G.6
2455191000	SAIL-M12BW-K-10P	G.6
2455200150	SAIL-M12BWL-1.5P	G.4
2455200300	SAIL-M12BWL-3.0P	G.4
2455200500	SAIL-M12BWL-5.0P	G.4
2455201000	SAIL-M12BWL-10P	G.4
2455210150	SAIL-M12G-K-1.5P	G.6
2455210300	SAIL-M12G-K-3.0P	G.6
2455210500	SAIL-M12G-K-5.0P	G.6
2455211000	SAIL-M12G-K-10P	G.6
2455220150	SAIL-M12G-L-1.5P	G.4
2455220300	SAIL-M12G-L-3.0P	G.4
2455220500	SAIL-M12G-L-5.0P	G.4
2455221000	SAIL-M12G-L-10P	G.4
2455230150	SAIL-M12W-K-1.5P	G.6
2455230300	SAIL-M12W-K-3.0P	G.6
2455230500	SAIL-M12W-K-5.0P	G.6
2455231000	SAIL-M12W-K-10P	G.6
2455240150	SAIL-M12WL-1.5P	G.4
2455240300	SAIL-M12WL-3.0P	G.4
2455240500	SAIL-M12WL-5.0P	G.4
2455241000	SAIL-M12WL-10P	G.4
2455250150	SAIL-M12GM12G-K-1.5P	G.7
2455250300	SAIL-M12GM12G-K-3.0P	G.7
2455250500	SAIL-M12GM12G-K-5.0P	G.7
2455251000	SAIL-M12GM12G-K-10P	G.7
2455260150	SAIL-M12GM12G-L-1.5P	G.5
2455260300	SAIL-M12GM12G-L-3.0P	G.5
2455260500	SAIL-M12GM12G-L-5.0P	G.5
2455261000	SAIL-M12GM12G-L-10P	G.5
2455270150	SAIL-M12GM12W-K-1.5P	G.7
2455270300	SAIL-M12GM12W-K-3.0P	G.7
2455270500	SAIL-M12GM12W-K-5.0P	G.7
2455271000	SAIL-M12GM12W-K-10P	G.7
2455280150	SAIL-M12GM12WL-1.5P	G.5
2455280300	SAIL-M12GM12WL-3.0P	G.5
2455280500	SAIL-M12GM12WL-5.0P	G.5
2455281000	SAIL-M12GM12WL-10P	G.5
2455290150	SAIL-M12WM12W-K-1.5P	G.7
2455290300	SAIL-M12WM12W-K-3.0P	G.7
2455290500	SAIL-M12WM12W-K-5.0P	G.7
2455291000	SAIL-M12WM12W-K-10P	G.7
2455300150	SAIL-M12WM12WL-1.5P	G.5
2455300300	SAIL-M12WM12WL-3.0P	G.5
2455300500	SAIL-M12WM12WL-5.0P	G.5
2455301000	SAIL-M12WM12WL-10P	G.5
2455310150	SAIL-M12WM12G-K-1.5P	G.7
2455310300	SAIL-M12WM12G-K-3.0P	G.7
2455310500	SAIL-M12WM12G-K-5.0P	G.7
2455311000	SAIL-M12WM12G-K-10P	G.7
2455320150	SAIL-M12WM12G-L-1.5P	G.5
2455320300	SAIL-M12WM12G-L-3.0P	G.5
2455320500	SAIL-M12WM12G-L-5.0P	G.5
2455321000	SAIL-M12WM12G-L-10P	G.5
2455330150	SAIL-M12BG-L-1.5P	G.4
2455330300	SAIL-M12BG-L-3.0P	G.4
2455330500	SAIL-M12BG-L-5.0P	G.4
2455331000	SAIL-M12BG-L-10P	G.4
2457760000	THM MMP CASE	M.23

2460000000

2467720000	SAI-M23PP-GS-3/7	F.14
2467730000	SAI-M23PP-GS-7/12	F.14
2467740000	SAI-M23PP-GS-11/17	F.14
2467750000	SAI-M23PP-GSW-3/7	F.14
2467760000	SAI-M23PP-GSW-7/12	F.14
2467770000	SAI-M23PP-GSW-11/17	F.14

2480000000

2485310000	SAI-WDF 5P B M12 K	C.36
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2490000000

2495280000	SAI-4-SVV-GM-RM-M12	G.21
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4290000000

4294820000	1/4" Handgriff	M.5
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4310000000

4310920000	BFC M3X10 SAI	L.6
4310920000	BFC M3X10 SAI	L.13
4311000000	SAI O-RI 7.5X1.5 VI	L.6
4311000000	SAI O-RI 7.5X1.5 VI	L.9

Order No.	Type	Page
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4311000000	SAI O-RI 7.5X1.5 VI	L.10
4311000000	SAI O-RI 7.5X1.5 VI	L.13
4311000000	SAI O-RI 7.5X1.5 VI	L.13
4311000000	SAI O-RI 7.5X1.5 VI	L.13
4311430000	PTSC 25X12 WN5452	L.6
4311430000	PTSC 25X12 WN5452	L.9
4311430000	PTSC 25X12 WN5452	L.10
4312340000	SAI O-RI 5.0X0.8 NBR	L.6
4312340000	SAI O-RI 5.0X0.8 NBR	L.9
4312340000	SAI O-RI 5.0X0.8 NBR	L.10
4312340000	SAI O-RI 5.0X0.8 NBR	L.13
4312340000	SAI O-RI 5.0X0.8 NBR	L.13
4312340000	SAI O-RI 5.0X0.8 NBR	L.13

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4322750000	GWHUE BUS M12 BU SAI	L.7
4322760000	GWHUE BUS M12 SF SAI	L.7

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7915030000	SAI-8-F 5P 2M 0.5/1.0U	H.8
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8390000000

8395500000	PB-DP SUB-D	J.24
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8420000000

8425910000	POS-4P M12 PG13.5 300 mm	J.39
8425930000	POS-4P M12 M20 150mm	J.39
8425940000	POS-4P M12 M20 300mm	J.39
8425960000	SAI-SK-M12 BU	C.37
8426220000	FBCon M12 4P FM EMC	C.5
8426220000	FBCon M12 4P FM EMC	C.13
8426220000	FBCon M12 4P FM EMC	J.37

8460000000

8460860000	PB-DP SUB-D TERM	J.24
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8556460000	FBCon Term.D Ex FM	J.58
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8564060000	FBCon PA CG/M12 1way	J.42
8564070000	FBCon PA CG/M12 2way	J.43
8564080000	FBCon PA CG/M12 4way	J.44
8564090000	FBCon PA CG 1way	J.42
8564100000	FBCon PA CG 2way	J.43
8564110000	FBCon PA CG 4way	J.44
8564150000	FBCon PA CG/M12 1way Ex	J.54
8564160000	FBCon PA CG/M12 2way Ex	J.55
8564170000	FBCon PA CG/M12 4way Ex	J.56
8564180000	FBCon PA CG 1way Ex	J.54
8564190000	FBCon PA CG 2way Ex	J.55
8564200000	FBCon PA CG 4way Ex	J.56
8564240000	FBCon PA CG 8way Ex	J.57
8564250000	FBCon PA CG/M12 8way Ex	J.57
8564290000	FBCon DP CG Term 24V	J.30
8564300000	FBCon PA CG 8way	J.45
8564310000	FBCon PA CG/M12 8way	J.45
8564320000	FBCon DP M12 Term 5V	J.30
8564330000	FBCon DP M12 Term 24V	J.30
8564340000	FBCon DP CG 1way	J.29
8564350000	FBCon DP M12 1way	J.29

8600000000

8606180000	FBCon Term.D Ex FM/PEAN	J.58
8606190000	FBCon Term.D Ex	J.58
8606200000	FBCon Term.D Ex PEAN	J.58

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8613670000	FBCon SS PCG 1way	J.42
8613680000	FBCon SS PCG 4way	J.44

8700000000

8703430000	FBCon SS CG 1way	J.42
8703450000	FBCon SS CG 4way	J.44
8703470000	FBCon SS CG 8way	J.45

8710000000

8714160000	FBCon PA CG/M12 1way Limiter	J.47
8714170000	FBCon PA CG/M12 2way Limiter	J.48
8714180000	FBCon PA CG/M12 4way Limiter	J.49
8714190000	FBCon PA CG/M12 8way Limiter	J.50
8714200000	FBCon PA CG 1way Limiter	J.47
8714210000	FBCon PA CG 2way Limiter	J.48
8714220000	FBCon PA CG 4way Limiter	J.49
8714230000	FBCon PA CG 8way Limiter	J.50
8714240000	FBCon SS DP PCG Term 24V	J.30
8714250000	FBCon SS DP M12 Term 24V	J.30
8714260000	FBCon SS DP PCG 1way	J.29

Order No.	Type	Page
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8714270000	FBCon SS DP M12 1way	J.29
8715260000	FBCon SS PCG 4way Limiter	J.49

8720000000

8726020000	FBCon SS CG/M12 1way	J.42
8726110000	FBCon SS PCG 1way Limiter	J.47
8726160000	FBCon SS PCG 8way Limiter	J.50

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8771420000	JPR 24VDC 1C0 M12	K.3
8771430000	JPR 24VDC ISO 1C0 M12	K.3
8771440000	JPTA 50MS 24VDC PNP M12	K.4
8778490000	JP CLIP M	K.7

8780000000

8788580000	RS PB-DP T SUB-D	J.31
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8794080000	SAI JP 5P LG 100	K.8
8794090000	SAI JP 4P LG 100	K.8
8794120000	JP TEST	K.6

8800000000

8800040000	RS PB-DP T	J.31
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8836630000	JPTA100MS 24VDC PNP M12	K.4
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8852350000	JPP NPN PNP 24VDC	K.5
8857030000	JPP NPN PNP 24VDC	K.5

9000000000

9002650000	KT 8	M.7
9002660000	KT 12	M.7
9005000000	STRIPAX	M.9

9010000000

9017330000	STRIPAX ZERT	M.9
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9030000000

9030060000	AM 12	M.8
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9200000000

9202210000	multi-stripax 6-16	M.11
9202250000	multi-stripax ASI	M.11
9202260000	AIÉ multi-stripax 6-16	M.11
9202300000	AIÉ multi-stripax ASI	M.11
9203070000	ERME MULTI-STRIPAX	M.11
9203100000	ERAN MULTI-STRIPAX	M.11
9203110000	STRIPPER 6-16 RED-LINE	M.8
9204350000	IE-CST	J.69
9204350000	IE-CST	J.73
9205760000	multi-stripax GKW LW	M.11
9205770000	AIÉ multi-stripax GKWLW	M.11

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9455110000	AS-KG-GE	J.60
9455120000	AS-KG-SW	J.60
9455640000	FBCon M12 4P M EMC	C.13
9455640000	FBCon M12 4P M EMC	C.15
9455640000	FBCon M12 4P M EMC	J.37
9455650000	POS-4P M12 PG13.5 150mm	J.39
9456000000	SAI-4-S 4P M12	H.6
9456000000	SAI-4-S 4P M12	H.12
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9456000001	SAI-4-S 5P M12	H.12
9456010000	SAI-6-S 4P M12	H.6
9456010000	SAI-6-S 4P M12	H.12
9456010001	SAI-6-S 5P M12	H.6
9456010001	SAI-6-S 5P M12	H.12
9456020000	SAI-8-S 4P M12	H.6
9456020000	SAI-8-S 4P M12	H.12
9456050000	SAI-SK-M12	C.37
9456070150	SAIL-VSBD-1.5U	B.55
9456100150	SAIL-M12G-4-1.5U	B.4
9456100150	SAIL-M12G-4-1.5U	B.11
9456100300	SAIL-M12G-4-3.0U	B.4
9456100500	SAIL-M12G-4-5.0U	B.4
9456101000	SAIL-M12G-4-10U	B.4
9456140150	SAIL-M12BG-S1.5U	B.17
9456150150	SAIL-M8BW-4-1.5U	B.5
9456150150	SAIL-M8BW-4-1.5U	B.19
9456150300	SAIL-M8BW-4-3.0U	B.5
9456150500	SAIL-M8BW-4-5.0U	B.5
9456151000	SAIL-M8BW-4-10U	B.5
9456170150	SAIL-VSCD-M12G-1.5U	B.56

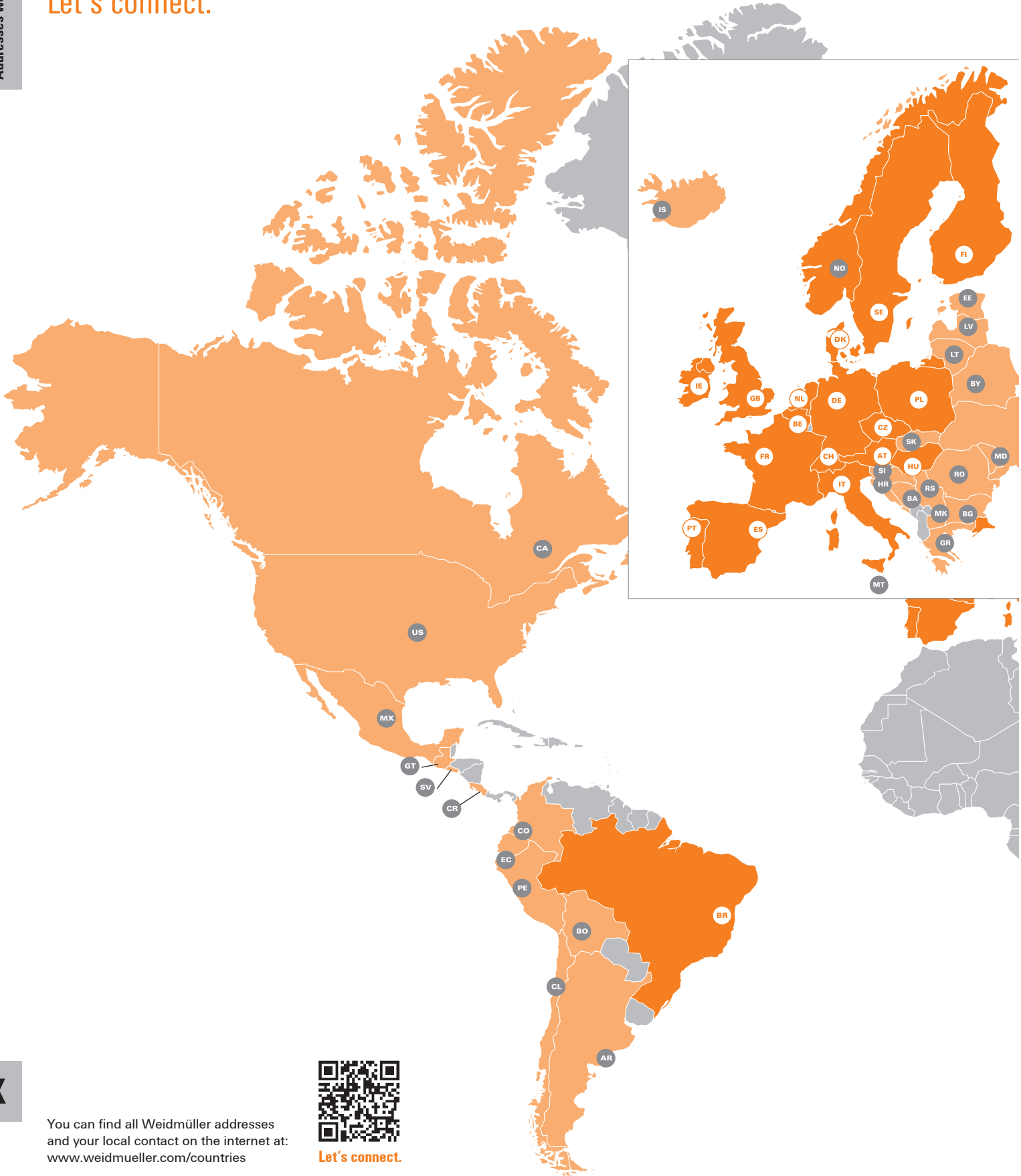
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Order No.	Type	Page
9457230300	SAIL-M12GM12G-3-3.0U	B.6
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9457231000	SAIL-M12GM12G-3-10U	B.6
9457240000	SAIB-4/7	C.5
9457240000	SAIB-4/7	C.7
9457250000	SAIB-5/7	C.5
9457250000	SAIB-5/7	C.8
9457260000	SAIBW-5/7	C.5
9457260000	SAIBW-5/7	C.8
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9457270150	SAIL-M12GM12W-5-1.5U	B.29
9457270300	SAIL-M12GM12W-5-3.0U	B.7
9457270500	SAIL-M12GM12W-5-5.0U	B.7
9457271000	SAIL-M12GM12W-5-10U	B.7
9457290000	SAISW-4/7	C.5
9457290000	SAISW-4/7	C.7
9457310150	SAIL-M12GM12W-4-1.5U	B.7
9457310150	SAIL-M12GM12W-4-1.5U	B.29
9457310300	SAIL-M12GM12W-4-3.0U	B.7
9457310500	SAIL-M12GM12W-4-5.0U	B.7
9457311000	SAIL-M12GM12W-4-10U	B.7
9457320150	SAIL-M12BW-3-1.5U	B.7
9457320150	SAIL-M12BW-3-1.5U	B.11
9457320300	SAIL-M12BW-3-3.0U	B.7
9457320500	SAIL-M12BW-3-5.0U	B.7
9457321000	SAIL-M12BW-3-10U	B.7
9457340030	SAIL-M12GM12G-5-0.3U	K.7
9457340060	SAIL-M12GM12G-5-0.6U	K.7
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9457340150	SAIL-M12GM12G-5-1.5U	B.29
9457340150	SAIL-M12GM12G-5-1.5U	K.7
9457340300	SAIL-M12GM12G-5-3.0U	B.7
9457340500	SAIL-M12GM12G-5-5.0U	B.7
9457341000	SAIL-M12GM12G-5-10U	B.7
9457380150	SAIL-M8BW-3-1.5U	B.5
9457380150	SAIL-M8BW-3-1.5U	B.19
9457380300	SAIL-M8BW-3-3.0U	B.5
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9457381000	SAIL-M8BW-3-10U	B.5
9457390150	SAIL-M12GM12W-3-1.5U	B.7
9457390150	SAIL-M12GM12W-3-1.5U	B.29
9457390300	SAIL-M12GM12W-3-3.0U	B.7
9457390500	SAIL-M12GM12W-3-5.0U	B.7
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9457400150	SAIL-VSC-M12G-1.5U	B.56
9457410150	SAIL-ZW-M8BW-3L1.5U	B.46
9457420000	SAIH-SLL-3x0.75-8x0.34	B.72
9457430000	SAI-8MF 5P PUR 10m	H.40
9457450150	SAIL-M8BG-3-1.5U	B.4
9457450150	SAIL-M8BG-3-1.5U	B.19
9457450300	SAIL-M8BG-3-3.0U	B.4
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9457451000	SAIL-M8BG-3-10U	B.4
9457460150	SAIL-M8BW-3L1.5U	B.5
9457460150	SAIL-M8BW-3L1.5U	B.23
9457460300	SAIL-M8BW-3L3.0U	B.5
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9457461000	SAIL-M8BW-3L10U	B.5
9457490150	SAIL-ZW-M8BG-3-1.5U	B.44
9457540000	SAIS-ZW-5	C.12
9457550000	SAIS-4/7	C.5
9457550000	SAIS-4/7	C.7
9457560000	SAIH-SLL-3x0.75-16x0.34	B.72
9457570150	SAIL-M12GM8W-3-1.5U	B.34
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9457600000	SAI-8F 5P 10M 0.5/1.0U	H.8
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9457610300	SAIL-M12G-5-3.0U	B.4
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9457680150	SAIL-VSB-M12G-1.5U	B.55
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9457690150	SAIL-M12BW-5-1.5U	B.11
9457690300	SAIL-M12BW-5-3.0U	B.7
9457690500	SAIL-M12BW-5-5.0U	B.7
9457691000	SAIL-M12BW-5-10U	B.7
9457700000	SAIBW-4/7	C.5
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9457710150	SAIL-VSA-1.5U	B.53
9457720000	SAI-SA-3-DC	H.22
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9457730150	SAIL-M12BG-4-1.5U	B.11
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9457730500	SAIL-M12BG-4-5.0U	B.6
9457731000	SAIL-M12BG-4-10U	B.6
9457740150	SAIL-M12BW-4-1.5U	B.7
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9457740300	SAIL-M12BW-4-3.0U	B.7
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9457741000	SAIL-M12BW-4-10U	B.7
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9457760150	SAIL-M12GM8W-3L1.5U	B.36
9457760300	SAIL-M12GM8W-3L3.0U	B.5

Order No.	Type	Page
9457760500	SAIL-M12GM8W-3L5.0U	B.5
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9457771000	SAIL-M12GM8G-3-10U	B.4
9457780150	SAIL-VSBD-M12G-1.5U	B.55
9457790150	SAIL-M12GM12W-3L1.5U	B.8
9457790150	SAIL-M12GM12W-3L1.5U	B.32
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9457801000	SAIL-M12BW-3L10U	B.8
9457810150	SAIL-M12G-3-1.5U	B.4
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9457850150	SAIL-M8BG-4-1.5U	B.19
9457850300	SAIL-M8BG-4-3.0U	B.5
9457850500	SAIL-M8BG-4-5.0U	B.5
9457851000	SAIL-M8BG-4-10U	B.5
9457890150	SAIL-M12GM12W-2/4-1.5U	B.31
9457900150	SAIL-M12WM12W-5-1.5U	B.7
9457900150	SAIL-M12WM12W-5-1.5U	B.29
9457900300	SAIL-M12WM12W-5-3.0U	B.7
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9457920150	SAIL-VSC-1.5U	B.56
9457930150	SAIL-VSB-1.5U	B.55
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9457980150	SAIL-M12GM8W-3-1.5U	B.5
9457980150	SAIL-M12GM8W-3-1.5U	B.33
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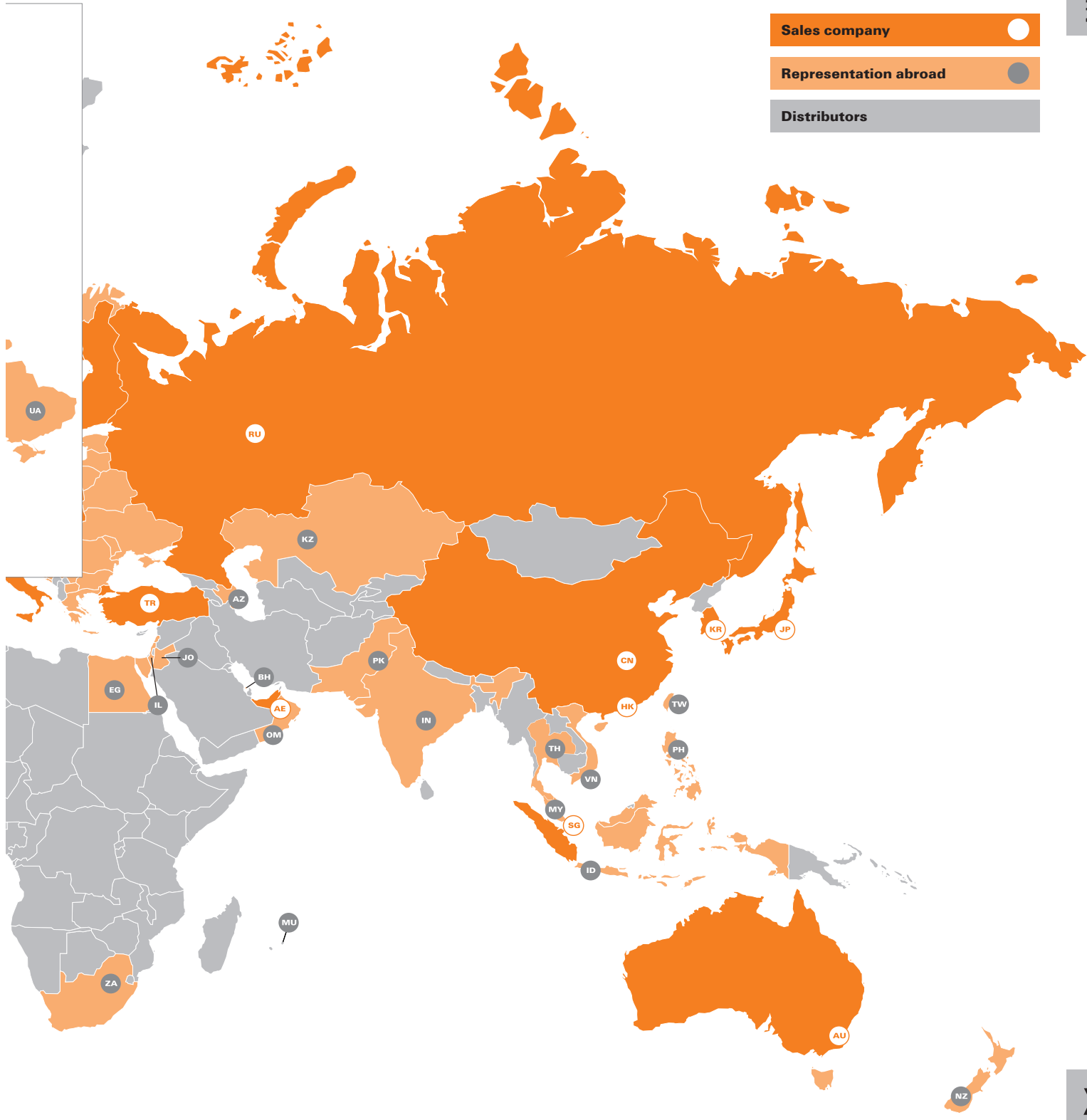


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