

**SAI-04D-VPHP-5A-M120-1:1-EX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Passive M12 distributors are available in all conceivable forms and configurations. Furthermore, a number of special versions, e.g. SAI distributors for EX zones or the ergonomic M8, are available only from Weidmüller. These innovative products are backed up by numerous proprietary rights.

**General ordering data**

Version	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No, Wiring type: 1:1
Order No.	<a href="#">2921150000</a>
Type	SAI-04D-VPHP-5A-M120-1:1-EX
GTIN (EAN)	4099986612822
Qty.	1 items

## SAI-04D-VPHP-5A-M120-1:1-EX

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## Technical data

## Approvals

Approvals



## Dimensions and weights

Depth	60 mm	Depth (inches)	2.3622 inch
Height	61.3 mm	Height (inches)	2.4134 inch
Length	102 mm	Length (inches)	4.0157 inch
Net weight	250 g		

## Temperatures

Operating temperature -40 - 60°C

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	ebf89fc8-a87f-4691-b87a-dfb9921774b4

## Connection data

Wire connection method	PUSH IN	Cable gland	M 20
Clamping range, min.	0.14 mm <sup>2</sup>	Clamping range, max.	1.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.14 mm <sup>2</sup>	Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.14 mm <sup>2</sup>	Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.28 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	1 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, max.	1 mm <sup>2</sup>
Distributor outlet	Hood version Ex		

## Electrical data

Rated voltage, min.	0 V	Rated voltage, max.	30 V
Max. current-carrying capacity per slot	0.8 A	Total current	0.8 A
Current per signal	0.8 A		

## General technical data

Protection degree	IP66, IP67	Surge voltage category	III
Plug-in station coding	A-coded	Number of poles	5
Number of contact sockets	4	Connection thread	M12
Pollution severity	3	Fire behaviour	V-0
Plugging cycles	≤ 50	LED	No
LED initiator	No		

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**Technical data****Material data**

Material O-Ring	FKM	Housing main material	Pocan (base module), Zinc diecast (hood)
Housing colour	black (similar to RAL 9005)	Hood sealing material	Polyurethane foamed
Screw socket	Nickel-plated CuZn	Contact material	CuZn
Contact surface	Gold-plated	Contact carrier material	PBT (UL 94 V0)
Cable gland material	metal		

**Important note**

Product information	Included in delivery: <ul style="list-style-type: none"> <li>• 2 x Protection cap M12</li> <li>• 1 x Cable gland M20x1.5</li> <li>• 1 x Sealing Plug M20x1.5</li> <li>• 1 x MultiCard ESG 9/17 K Device marker</li> </ul>
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**Classifications**

ETIM 8.0	EC003558	ETIM 9.0	EC003558
ETIM 10.0	EC003558	ECLASS 14.0	27-44-01-11
ECLASS 15.0	27-44-01-11		

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# Drawings

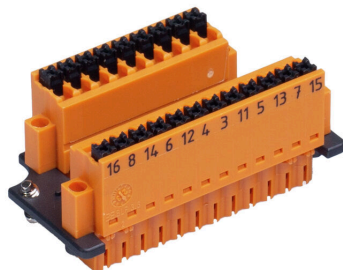
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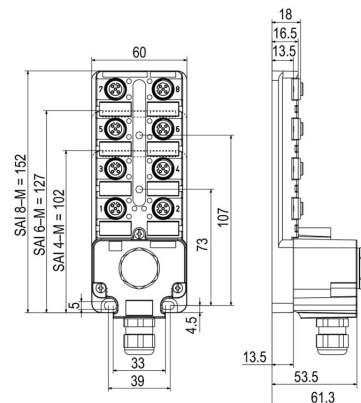
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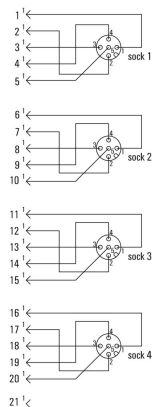
## Miscellaneous



## Dimensioned drawing



## Wiring diagram



## SAI-04D-VPHP-5A-M12O-1:1-EX

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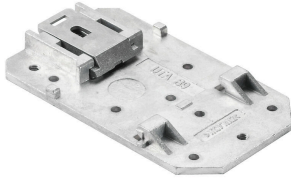
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## Accessories

## Accessories



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## General ordering data

Type	SAI-TS35 MF	Version
Order No.	<a href="#">1917400000</a>	
GTIN (EAN)	4032248551330	
Qty.	1 ST	

## M12



Protective caps protect unassigned plug-in stations against external influences.

## General ordering data

Type	SAI-SK-M12-UNI 2029	Version
Order No.	<a href="#">2330260000</a>	Protected component assemblies, Protective cap
GTIN (EAN)	4032248592067	
Qty.	20 ST	

## Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

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## Accessories

## General ordering data

Type	ESG 9/20 MC NE WS	Version
Order No.	<a href="#">1609940000</a>	ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable
GTIN (EAN)	4008190203528	
Qty.	200 ST	

## Screwty® cable gland tool with torque function

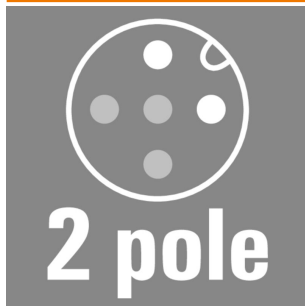


The ideal tool for any application  
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

## General ordering data

Type	SCREWTY SET -DM	Version
Order No.	<a href="#">1920000000</a>	Cable gland tool for M8, M12 lines and connectors
GTIN (EAN)	4032248436859	
Qty.	1 ST	

## 2-pole, A-coded



Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12G-2-5.OUBL	Version
Order No.	<a href="#">3107950500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987797801	poles : 2, 5 m, pin, straight, Shielded: No, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No

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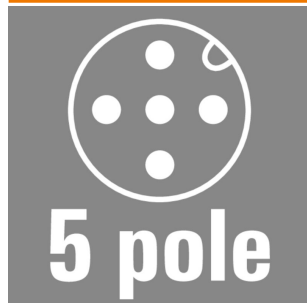
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## Accessories

## 5-pole, A-coded

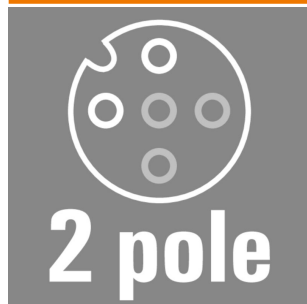


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12G-5-5.OUBL	Version
Order No.	<a href="#">3107980500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987808064	poles : 5, 5 m, pin, straight, Shielded: No, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No

## 2-pole, A-coded

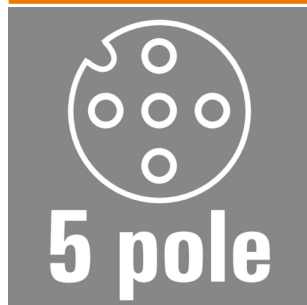


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12BG-2-5.OUBL	Version
Order No.	<a href="#">3107940500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987795746	poles : 2, 5 m, Female socket, straight, Shielded: No, LED: No, Sheath
Qty.	1 ST	material: PUR, Halogen: No

## 5-pole, A-coded



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## General ordering data

Type	SAIL-M12BG-5-5.OUBL	Version
Order No.	<a href="#">3107970500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987803854	poles : 5, 5 m, Female socket, straight, Shielded: No, LED: No, Sheath
Qty.	1 ST	material: PUR, Halogen: No

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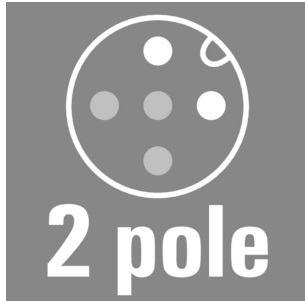
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## Accessories

## 2-pole, A-coded

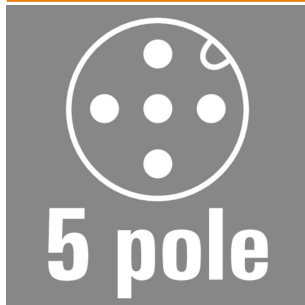


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## General ordering data

Type	SAIL-M12W-2-5.OUBL	Version
Order No.	<a href="#">3107960500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987802215	poles : 2, 5 m, pin, 90°, Shielded: No, LED: No, Sheath material: PUR,
Qty.	1 ST	Halogen: No

## 5-pole, A-coded

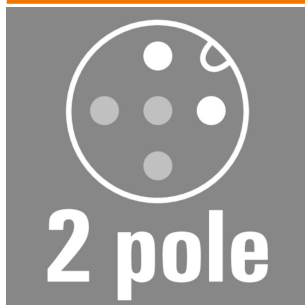


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12W-5-5.OUBL	Version
Order No.	<a href="#">3107990500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987808101	poles : 5, 5 m, pin, 90°, Shielded: No, LED: No, Sheath material: PUR,
Qty.	1 ST	Halogen: No

## 2-pole, A-coded



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## General ordering data

Type	SAIL-M12GM12G-2-5.OUBL	Version
Order No.	<a href="#">2955200500</a>	Sensor/actuator line, Connecting line, M12, Number of poles : 2, 5 m,
GTIN (EAN)	4099987802819	pin, straight - socket, straight, Shielded: No, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No



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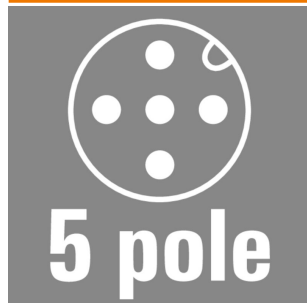
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## Accessories

## 5-pole, A-coded

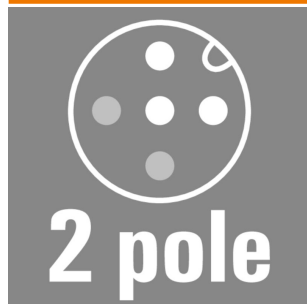


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12GM12G-5-5.0UBL	Version
Order No.	<a href="#">2955210500</a>	Sensor/actuator line, Connecting line, M12, Number of poles : 5, 5 m,
GTIN (EAN)	4099987808293	pin, straight - socket, straight, Shielded: No, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No

## 2-pole, A-coded

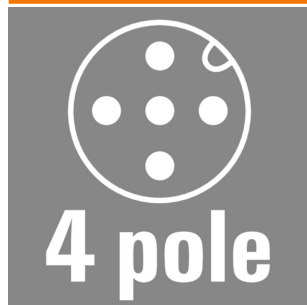


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12G-2SD5.0UBL	Version
Order No.	<a href="#">3108010500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987813273	poles : 2, 5 m, pin, straight, Shielded: Yes, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No

## 4-pole, A-coded



Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12G-4SD5.0UBL	Version
Order No.	<a href="#">3108030500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987834346	poles : 4, 5 m, pin, straight, Shielded: Yes, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No

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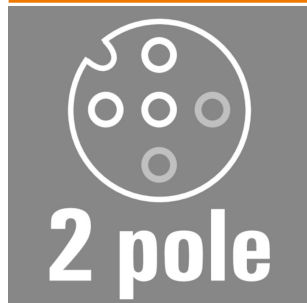
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## Accessories

## 2-pole, A-coded

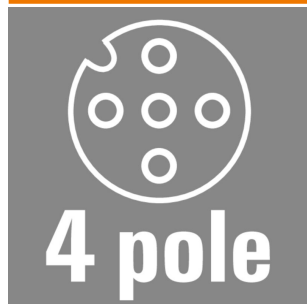


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12BG-2SD5.0UBL	Version
Order No.	<a href="#">3108000500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987808507	poles : 2, 5 m, Female socket, straight, Shielded: Yes, LED: No, Sheath
Qty.	1 ST	material: PUR, Halogen: No

## 4-pole, A-coded

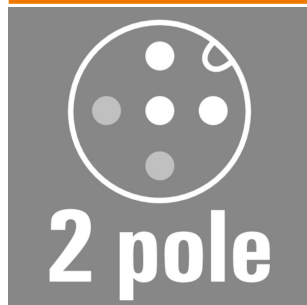


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12BG-4SD5.0UBL	Version
Order No.	<a href="#">3106100500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987175678	poles : 4, 5 m, Female socket, straight, Shielded: Yes, LED: No, Sheath
Qty.	1 ST	material: PUR, Halogen: No

## 2-pole, A-coded



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## General ordering data

Type	SAIL-M12W-2SD5.0UBL	Version
Order No.	<a href="#">3108020500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987814584	poles : 2, 5 m, pin, 90°, Shielded: Yes, LED: No, Sheath material: PUR,
Qty.	1 ST	Halogen: No

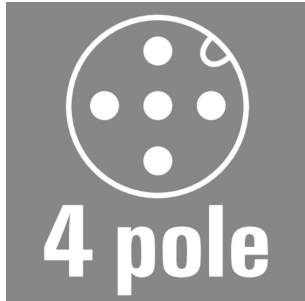
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## Accessories

## 4-pole, A-coded

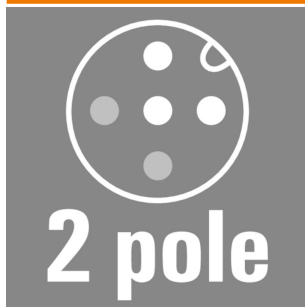


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12W-4SD5.0UBL	Version
Order No.	<a href="#">3108040500</a>	Sensor/actuator line, One end without connector, M12, Number of
GTIN (EAN)	4099987835138	poles : 4, 5 m, pin, 90°, Shielded: Yes, LED: No, Sheath material: PUR,
Qty.	1 ST	Halogen: No

## 2-pole, A-coded

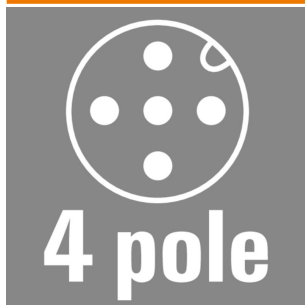


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12GM12G-2SD5.0UBL	Version
Order No.	<a href="#">2993610500</a>	Sensor/actuator line, Connecting line, M12, Number of poles : 2, 5 m,
GTIN (EAN)	4099987814881	pin, straight - socket, straight, Shielded: Yes, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No

## 4-pole, A-coded



Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

## General ordering data

Type	SAIL-M12GM12G-4SD5.0UBL	Version
Order No.	<a href="#">2955220500</a>	Sensor/actuator line, Connecting line, M12, Number of poles : 4, 5 m,
GTIN (EAN)	4099987836265	pin, straight - socket, straight, Shielded: Yes, LED: No, Sheath material:
Qty.	1 ST	PUR, Halogen: No