

SAI-08D-VPPP-5A-M120-OL2-EX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

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: PNP |
| Order No. | 2902930000 |
| Type | SAI-08D-VPPP-5A-M120-OL2-EX |
| GTIN (EAN) | 4099986005532 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 60 mm | Depth (inches) | 2.3622 inch |
| Height | 41.5 mm | Height (inches) | 1.6339 inch |
| Length | 152 mm | Length (inches) | 5.9842 inch |
| Net weight | 250 g | | |

Temperatures

Operating temperature -40 - 60°C

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption
REACH SVHC No SVHC above 0.1 wt%

Connection data

| | | | |
|-------------------------------------------------|----------------------|-------------------------------------------------|---------------------|
| Wire connection method | PUSH IN | Cable gland | M 20 |
| Clamping range, min. | 0.14 mm ² | Clamping range, max. | 1.5 mm ² |
| 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 ² | Solid, max. H05(07) V-U | 1.5 mm ² |
| Flexible, min. H05(07) V-K | 0.14 mm ² | Flexible, max. H05(07) V-K | 1.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.28 mm ² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.25 mm ² | w. wire end ferrule, DIN 46228 pt 1, max. | 1 mm ² |
| 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 | 8 | Connection thread | M12 |
| Pollution severity | 3 | Fire behaviour | V-0 |
| Plugging cycles | ≤ 50 | LED | No |
| LED initiator | No | | |

Material data

| | | | |
|-----------------|-----------------------------|-----------------------|---------------------|
| Material O-Ring | FKM | Housing main material | Pocan |
| Housing colour | black (similar to RAL 9005) | Hood sealing material | Polyurethane foamed |

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|----------------------|--------------------|--------------------------|----------------|
| Screw socket | Nickel-plated CuZn | Contact material | CuZn |
| Contact surface | Gold-plated | Contact carrier material | PBT (UL 94 V0) |
| Cable gland material | Plastic | | |

Important note

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product information | Included in delivery: <ul style="list-style-type: none">• 2 x Protection cap M12• 1 x Cable gland M20x1.5• 1 x MultiCard ESG 9/20 Device marker |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Similar to illustration



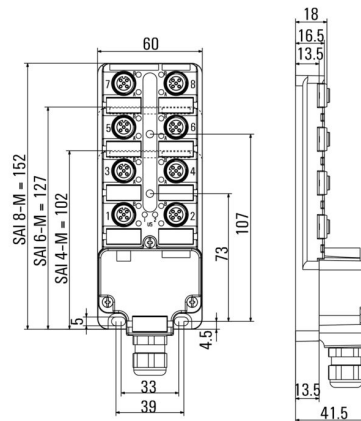
Similar to illustration



Miscellaneous



Dimensioned drawing



Wiring diagram



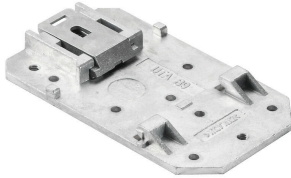
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Accessories

Accessories



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General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | SAI-TS35 MF | Version | |
| Order No. | 1917400000 | | |
| 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. | 2330260000 | | 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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General ordering data

| | | | |
|------------|----------------------------|--------------------------------------------------------------|--|
| Type | ESG 9/20 MC NE WS | Version | |
| Order No. | 1609940000 | ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable | |
| GTIN (EAN) | 4008190203528 | | |
| Qty. | 200 ST | | |

Screwty® cable gland tool with torque function

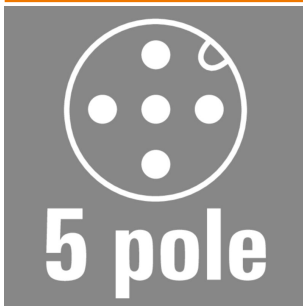


The ideal tool for any application
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. 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. | 1920000000 | Cable gland tool for M8, M12 lines and connectors | |
| GTIN (EAN) | 4032248436859 | | |
| Qty. | 1 ST | | |

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. | 3107980500 | Sensor/actuator line, One end without connector, M12, Number of poles : 5, 5 m, pin, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No | |
| GTIN (EAN) | 4099987808064 | | |
| Qty. | 1 ST | | |
| Type | SAIL-M12BG-5-5.OUBL | Version | |
| Order No. | 3107970500 | Sensor/actuator line, One end without connector, M12, Number of poles : 5, 5 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No | |
| GTIN (EAN) | 4099987803854 | | |
| Qty. | 1 ST | | |
| Type | SAIL-M12W-5-5.OUBL | Version | |
| Order No. | 3107990500 | Sensor/actuator line, One end without connector, M12, Number of poles : 5, 5 m, pin, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No | |
| GTIN (EAN) | 4099987808101 | | |
| Qty. | 1 ST | | |

SAI-08D-VP-5A-M120-OL2-EX

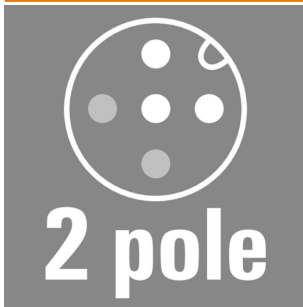
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Accessories

| | | |
|------------|----------------------------|---------------------------------------------------------------------------|
| Type | SAIL-M12GM12G-5-5.0UBL | Version |
| Order No. | 2955210500 | 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

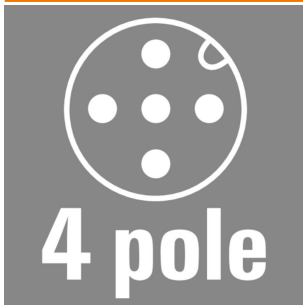


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------------|
| Type | SAIL-M12G-2SD5.0UBL | Version |
| Order No. | 3108010500 | 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. | 3108030500 | 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 |

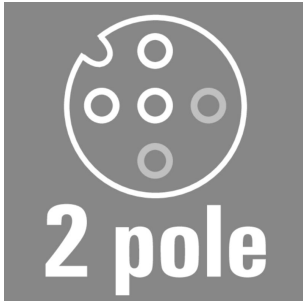
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Accessories

2-pole, A-coded

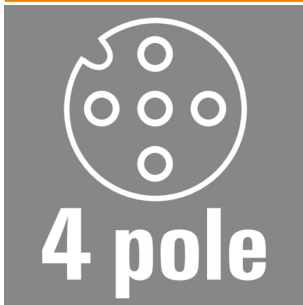


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

General ordering data

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

4-pole, A-coded

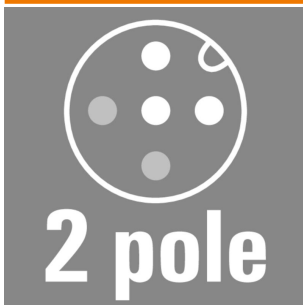


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

General ordering data

| | | | |
|------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Type | SAIL-M12BG-4SD5.OUBL | Version | |
| Order No. | 3106100500 | Sensor/actuator line, One end without connector, M12, Number of poles : 4, 5 m, Female socket, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No | |
| GTIN (EAN) | 4099987175678 | | |
| 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-M12W-2SD5.OUBL | Version | |
| Order No. | 3108020500 | Sensor/actuator line, One end without connector, M12, Number of poles : 2, 5 m, pin, 90°, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No | |
| GTIN (EAN) | 4099987814584 | | |
| Qty. | 1 ST | | |

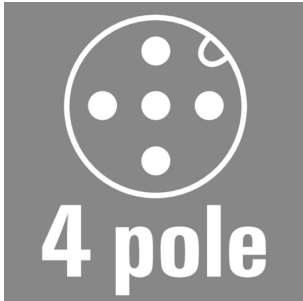
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Accessories

4-pole, A-coded

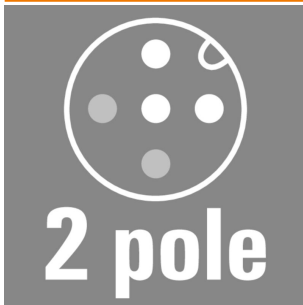


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

General ordering data

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

2-pole, A-coded

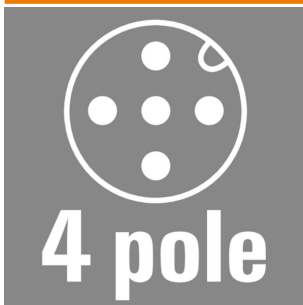


Sensor cables for use in Ex applications with intrinsically safe circuits. Please refer to the manufacturer's declaration in the product downloads for further Information

General ordering data

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

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. | 2955220500 | Sensor/actuator line, Connecting line, M12, Number of poles : 4, 5 m, pin, straight - socket, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No | |
| GTIN (EAN) | 4099987836265 | | |
| Qty. | 1 ST | | |