

**SAI-04D-VPPP-2A-M120-NAM-EX**

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

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

**Product image**

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: 2-wire |
| Order No.  | <a href="#">1868350000</a>   |
| Type       | SAI-04D-VPPP-2A-M120-NAM-EX  |
| GTIN (EAN) | 4032248439539  |
| Qty.       | 1 items  |

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 60 mm   | Depth (inches)  | 2.3622 inch |
| Height     | 41.5 mm | Height (inches) | 1.6339 inch |
| Length     | 102 mm  | Length (inches) | 4.0157 inch |
| Net weight | 204 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 <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        | 2   |
| 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               |
| 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 | Plastic                     |                          |                     |

### 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 MultiCard ESG 9/20 Device marker</li> </ul> |
|---------------------|---|

### 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 |             |             |

**Drawings**

**Product image**



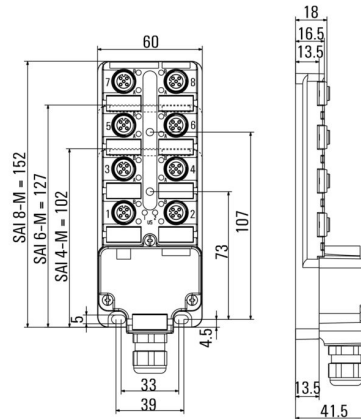
**Product image**



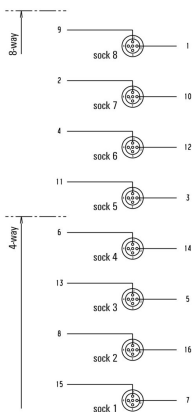
**Miscellaneous**



**Dimensioned drawing**



**Wiring diagram**



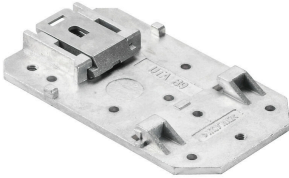
## SAI-04D-VPPP-2A-M12O-NAM-EX

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## 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.

## SAI-04D-VP-2A-M120-NAM-EX

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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

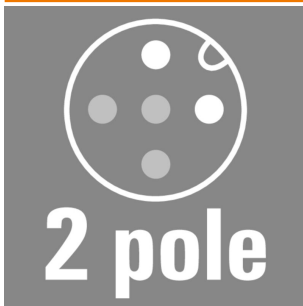


The ideal tool for any application  
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. 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 poles : 2, 5 m, pin, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No           |  |
| GTIN (EAN) | 4099987797801              |   |  |
| Qty.       | 1 ST                       |   |  |
| Type       | SAIL-M12BG-2-5.OUBL        | Version   |  |
| Order No.  | <a href="#">3107940500</a> | Sensor/actuator line, One end without connector, M12, Number of poles : 2, 5 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |  |
| GTIN (EAN) | 4099987795746              |   |  |
| Qty.       | 1 ST                       |   |  |
| Type       | SAIL-M12W-2-5.OUBL         | Version   |  |
| Order No.  | <a href="#">3107960500</a> | Sensor/actuator line, One end without connector, M12, Number of poles : 2, 5 m, pin, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No                |  |
| GTIN (EAN) | 4099987802215              |   |  |
| Qty.       | 1 ST                       |   |  |

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## Accessories

|            |                            |   |
|------------|----------------------------|---|
| Type       | SAIL-M12GM12G-2-5.0UBL     | 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  |