Data sheet

# SAI-4-M 5P M12 OL

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

www.weidmueller.com



M12 distributors are available in various versions. The 4, 6 or 8 M12 slots are in 4 or 5 pole design. The group outlet is designed as a fixed cable version, hood version for connection by the user, or with M23. Special versions are also available. For instance, there are 1-to-1 distributors for use with any connection types, or distributors approved for Ex Zone 1.

## General ordering data

| | |
|---|---|
| Version | Hood distributor, M12, 30 V, A-coded, LED: Yes, LED initiator: No, Wiring type: PNP |
| Order No. | 1800000000 |
| Type | SAI-4-M 5P M12 OL |
| GTIN (EAN) | 4032248248520 |
| Qty. | 1 items |

# Data sheet

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# Technical data

### Approvals

| | |
|---|---|
| ROHS | Conform |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 102 mm | Depth (inches) | 4.0157 inch |
| Height | 41.5 mm | Height (inches) | 1.6339 inch |
| Width | 60 mm | Width (inches) | 2.3622 inch |
| Net weight | 193.3 g | | |

### Temperatures

| | |
|---|---|
| Operating temperature | -20 - 90°C |

### Environmental Product Compliance

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

### Connection data

| | | | |
|---|---|---|---|
| Conductor O.D., min. | 6 mm | Conductor O.D., max. | 12 mm |
| Stripping length (sheathing) | 100 mm | Cable gland | M 20 |
| Conductor cross-section (rated connection), min. | 0.08 mm² | Conductor cross-section (rated connection), max. | 1.5 mm² |
| Wire connection cross section AWG, min. | AWG 28 | Wire connection cross section AWG, max. | AWG 14 |
| Solid, min. H05(07) V-U | 0.2 mm² | Solid, max. H05(07) V-U | 1.5 mm² |
| Flexible, min. H05(07) V-K | 0.2 mm² | Flexible, max. H05(07) V-K | 1.5 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm² | w. wire end ferrule, DIN 46228 pt 1, max. | 1.5 mm² |
| Storage space | Standard | Distributor outlet | Hood distributor |

### Electrical data

| | | | |
|---|---|---|---|
| Rated voltage, min. | 10 V | Rated voltage, max. | 30 V |
| Test voltage | 1 kV | Max. current-carrying capacity per slot | 4 A |
| Total current | 10 A | Current per signal | 2 A |
| Electrical isolation available | Yes | Insulation resistance | 109 Ω |

### General technical data

| | | | |
|---|---|---|---|
| Protection degree | IP68 | 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 | Yes | LED initiator | No |
| LED colour for indicating operation | green | | |

### Material data

| | | | |
|---|---|---|---|
| Housing main material | Pocan | Material of distributor | Plastic |
| Housing colour | grey, RAL 7032 | Hood sealing material | Viton |

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## Technical data

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

### Technical data cable

| | | | |
|---|---|---|---|
| Number of poles | 5 | Conductor O.D., max. | 12 mm |
| Conductor O.D., min. | 6 mm | Suitable for cable carriers | No |

### 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 | | |

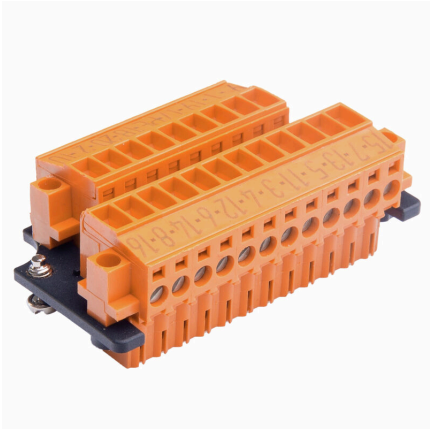
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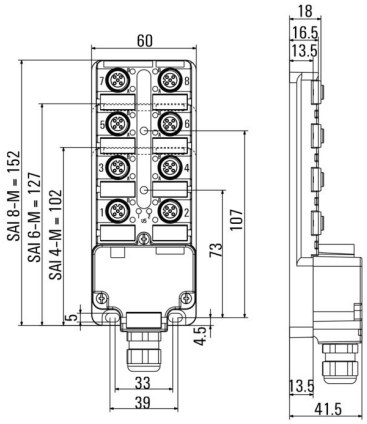
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## Drawings

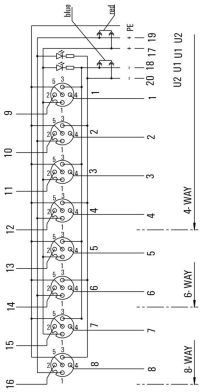
### Similar to illustration



### Dimensioned drawing




### Wiring diagram



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## Accessories

### M12



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

#### General ordering data

| | | |
|---|---|---|
| Type | SAI-SK-M12 | Version |
| Order No. | 9456050000 | Protected component assemblies, Protective cap |
| GTIN (EAN) | 4008190304058 | |
| Qty. | 30 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 | |

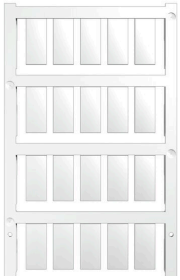
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## Accessories

### 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.

### 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 | |