Data sheet

# SAI-8-M 5P M12 PI

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

www.weidmueller.com

## Similar to illustration



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: Yes, Wiring type: PNP |
| Order No. | 1767880000 |
| Type | SAI-8-M 5P M12 PI |
| GTIN (EAN) | 4032248111367 |
| Qty. | 1 items |

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# Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 152 mm | Depth (inches) | 5.9842 inch |
| Height | 41.5 mm | Height (inches) | 1.6339 inch |
| Width | 60 mm | Width (inches) | 2.3622 inch |
| Net weight | 244.64 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

| | | | |
|---|---|---|---|
| Wire connection method | PUSH IN | 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. | 0.14 mm² |
| Conductor cross-section (rated connection), max. | 1.5 mm² | Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross section AWG, max. | AWG 16 | Solid, min. H05(07) V-U | 0.14 mm² |
| Solid, max. H05(07) V-U | 1.5 mm² | Flexible, min. H05(07) V-K | 0.14 mm² |
| Flexible, max. H05(07) V-K | 1.5 mm² | w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.28 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 1 mm² | w. wire end ferrule, DIN 46228 pt 1, min. | 0.25 mm² |
| w. wire end ferrule, DIN 46228 pt 1, max. | 1 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 | 8 |
| Connection thread | M12 | Pollution severity | 3 |
| Fire behaviour | V-0 | Plugging cycles | ≤ 50 |
| LED | Yes | LED initiator | Yes |
| LED colour for indicating operation | green | LED colour for I/O function | yellow |

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## Technical data

### Material data

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

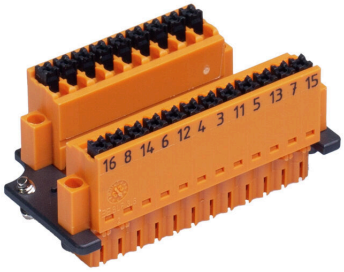
# SAI-8-M 5P M12 PI

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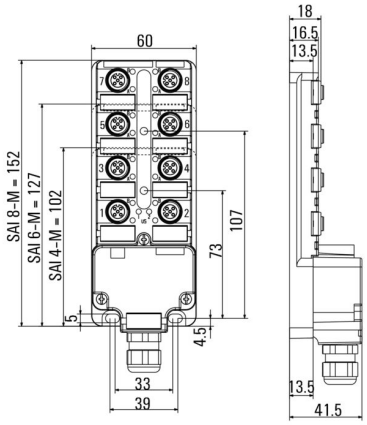
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## Drawings

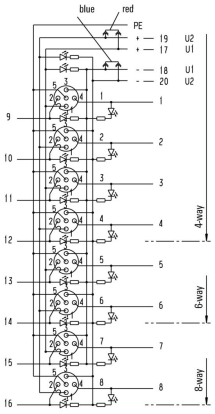
### Similar to illustration




### 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 | |

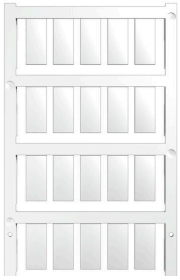
Weidmüller

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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 | |

## Bus cables for the SAI hooded distributor and M23



Weidmüller can supply suitable bus lines for customising. All bus cables are suitable for moving cable carriers and are available by the metre. The colour coding of the lines corresponds to the standard in mechanical engineering. The connection hoods of the M12 distributor always have the same number of terminals so that only one type of cable is necessary.
Advantages of bus cables supplied by the metre:
- Special lengths for bus cables
- No cable waste
- No storage space required for different cable lengths
- Also available in specific lengths.

### General ordering data

| | | |
|---|---|---|
| Type | SAIH-SLL-3X0.75-16X0.34 | Version |
| Order No. | 9457560000 | Distribution line, Shielded: No, LED: No, Sheath material: PUR, |
| GTIN (EAN) | 4008190311506 | Halogen: No |
| Qty. | 100 M | |