

SAI-8-F 5P NPN-PNP 5M**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 | Fixed cable version, M12, 30 V, A-coded, LED: Yes, LED initiator: Yes, Wiring type: NPN-PNP inverter, 5 m |
| Order No. | 1814990000 |
| Type | SAI-8-F 5P NPN-PNP 5M |
| GTIN (EAN) | 4032248303151 |
| Qty. | 1 items |

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Technical data

Approvals

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

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 152 mm | Depth (inches) | 5.9842 inch |
| Height | 25 mm | Height (inches) | 0.9842 inch |
| Net weight | 715 g | | |

Temperatures

| | |
|-----------------------|----------|
| Operating temperature | 0 - 50°C |
|-----------------------|----------|

Environmental Product Compliance

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

Connection data

| | |
|--------------------|---------------------|
| Distributor outlet | Fixed cable version |
|--------------------|---------------------|

Electrical data

| | | | |
|--------------------------------|------|---|-------|
| Rated voltage, min. | 10 V | Rated voltage, max. | 30 V |
| Test voltage | 1 kV | Max. current-carrying capacity per slot | 4 A |
| Electrical isolation available | No | 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 |

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 | Sheathing colour | black |
| O.D. | 8.2 mm | Shielded | No |
| Halogen | No | Bending radius, min., moving | 10 x cable diameter |
| Bending cycles | 2 Mio | Wire cross section (Print/Online) | 8 x 0.34 mm ² + 3 x 1.0 mm ² |
| Sheath material | PUR | Colour coding | white, black, red, pink, violet, yellow, green, grey, blue, brown, Green/yellow |
| Cable length | 5 m | Suitable for cable carriers | Yes |

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www.weidmueller.com**Technical data****Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002585 | ETIM 7.0 | EC002585 |
| ETIM 8.0 | EC002585 | ETIM 9.0 | EC002585 |
| ETIM 10.0 | EC002585 | ECLASS 9.0 | 27-44-01-08 |
| ECLASS 9.1 | 27-44-01-08 | ECLASS 10.0 | 27-44-01-08 |
| ECLASS 11.0 | 27-44-01-08 | ECLASS 12.0 | 27-44-01-08 |
| ECLASS 13.0 | 27-44-01-08 | ECLASS 14.0 | 27-44-01-08 |
| ECLASS 15.0 | 27-44-01-08 | | |

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Drawings

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 | | |

SAI-8-F 5P NPN-PNP 5M**Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26
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Germanywww.weidmueller.com**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 | |