

**SAI-8-F 5P 5M 0.5/1.0U****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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    | Fixed cable version, M12, 30 V, A-coded, LED: Yes, LED initiator: Yes, Wiring type: PNP, 5 m |
| Order No.  | <a href="#">9457590000</a>   |
| Type       | SAI-8-F 5P 5M 0.5/1.0U   |
| GTIN (EAN) | 4032248168101  |
| Qty.       | 1 pc(s).   |

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## Technical data

## Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 152 mm | Depth (inches)  | 5.984 inch |
| Height     | 25 mm  | Height (inches) | 0.984 inch |
| Net weight | 991 g  |                 |            |

## Temperatures

|                       |          |
|-----------------------|----------|
| Operating temperature | -20 - 80 |
|-----------------------|----------|

## Connection data

|                            |        |                    |                     |
|----------------------------|--------|--------------------|---------------------|
| Sheathing stripping length | 100 mm | 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               |
| Total current                  | 9 A  | Current per signal                      | 2 A               |
| Electrical isolation available | No   | Insulation strength                     | 10 <sup>9</sup> Ω |

## General technical data

|                                     |         |                             |        |
|-------------------------------------|---------|-----------------------------|--------|
| Plug-in station coding              | A-coded | Protection degree           | IP68   |
| 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

|                                   |  |                                  |  |
|-----------------------------------|--|----------------------------------|--|
| Bending radius, min., moving      | 10 x cable diameter  | Bending radius, min., stationary | 5 x cable diameter                                 |
| Colour coding                     | blue, brown, Green/yellow, yellow, grey, green, white, pink, red, black, violet, grey / pink, red / blue, white / green, brown / green, white / yellow, Yellow / brown, grey / brown | Number of poles                  | 5  |
| O.D.                              | 12.3 mm  | Sheathing colour                 | Deep black   |
| Wire cross section (Print/Online) | 16 x 0.5 mm <sup>2</sup> + 3 x 1.0 mm <sup>2</sup>   | Cable length                     | 5 m  |
| Suitable for cable carriers       | Yes  | Armoured line                    | 16 x 0.5 mm <sup>2</sup> + 3 x 1 mm <sup>2</sup> ; |

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## Technical data

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002585    | ETIM 7.0    | EC002585    |
| ETIM 8.0    | EC002585    | ETIM 9.0    | 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 |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E141197    |

## Downloads

|                  |  |
|------------------|--|
| Engineering Data | <a href="#">CAD data – STEP</a>  |
| Catalogues       | <a href="#">Catalogues in PDF-format</a>                               |
| Brochures        | <a href="#">FL FIELDWIRING EN</a><br><a href="#">FL FIELDWIRING EN</a> |

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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.  | <a href="#">9456050000</a> | Protected component assemblies, Protective cap |
| GTIN (EAN) | 4008190304058              |  |
| Qty.       | 30 pc(s).                  |  |

## 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.  | <a href="#">1609940000</a> | ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable |
| GTIN (EAN) | 4008190203528              |  |
| Qty.       | 200 pc(s).                 |  |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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   | Packaging |
|------------|----------------------------|---|-----------|
| Order No.  | <a href="#">1920000000</a> | Cable gland tool for M8, M12 lines and connectors | Cardboard |
| GTIN (EAN) | 4032248436859              |   | box       |
| Qty.       | 1 pc(s).                   |   |           |