

**SAI-8-M 5P M12 NPN****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         | Hood distributor, M12, 30 V, A-coded, LED: Yes, LED initiator: Yes, Wiring type: NPN |
| Order No.       | <a href="#">1781060000</a>                                                           |
| Type            | SAI-8-M 5P M12 NPN                                                                   |
| GTIN (EAN)      | 4032248169405                                                                        |
| Qty.            | 1 items                                                                              |
| Delivery status | This article will no longer be available in the future.                              |
| Available until | 2025-12-30T00:00:00+01:00                                                            |

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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 | 276 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               |
| Sheathing stripping length                                          | 100 mm               | Cable gland                                                         | M 20                |
| Clamping range, min.                                                | 0.08 mm <sup>2</sup> | Clamping range, max.                                                | 1.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min.                             | AWG 28               | Wire connection cross section AWG, max.                             | AWG 14              |
| Solid, min. H05(07) V-U                                             | 0.2 mm <sup>2</sup>  | Solid, max. H05(07) V-U                                             | 1.5 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K                                          | 0.2 mm <sup>2</sup>  | Flexible, max. H05(07) V-K                                          | 1.5 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm <sup>2</sup> min. |                      | w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm <sup>2</sup> max. |                     |
| w. wire end ferrule, DIN 46228 pt 1, min.                           | 0.2 mm <sup>2</sup>  | w. wire end ferrule, DIN 46228 pt 1, max.                           | 1.5 mm <sup>2</sup> |
| 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  |

## 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) |

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Germany[www.weidmueller.com](http://www.weidmueller.com)**Technical data****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 |             |             |

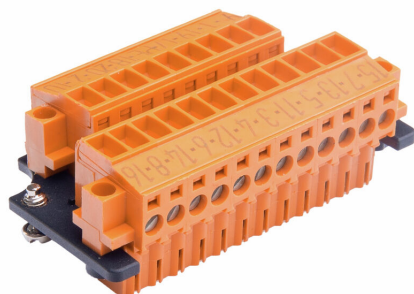
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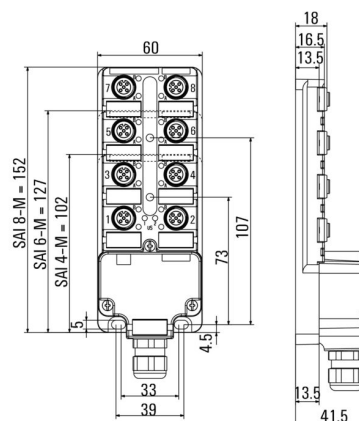
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## Drawings

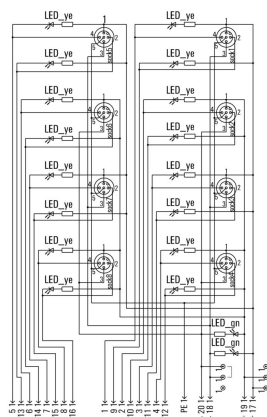
### Similar to illustration



### Dimensioned drawing



### Wiring diagram



**SAI-8-M 5P M12 NPN****Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26  
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Protective caps protect unassigned plug-in stations against external influences.

**General ordering data**

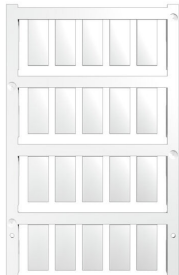
|            |                            |                                                |  |
|------------|----------------------------|------------------------------------------------|--|
| Type       | SAI-SK-M12                 | Version                                        |  |
| Order No.  | <a href="#">9456050000</a> | Protected component assemblies, Protective cap |  |
| GTIN (EAN) | 4008190304058              |                                                |  |
| Qty.       | 30 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                       |                                                   |  |

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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 ST                     |                                                              |