

## SAI-8-M 4P IDC



- The compact IDC system cuts production, installation and maintenance work.
- Knurled metal nuts ensure sturdy, secure handling with little effort.
- The IDC distributors have the same dimensions as the standard SAI distributors. They are compatible with the standard SAI distributors.
- 3-pole version with 1 I/O signal per slot and 4-pole version with 2 I/O signals per slot,
- individual assembly of the sensor/actuator cables on the spot,
- reliable and fast connection thanks to IDC connecting element,
- IP67 class of protection.

### General ordering data

|            |   |
|------------|---|
| Version    | Hood version, IDC, M12, 30 V, A-coded, LED: Yes, LED initiator: Yes, Wiring type: PNP |
| Order No.  | <a href="#">1766800000</a>  |
| Type       | SAI-8-M 4P IDC  |
| GTIN (EAN) | 4032248107339   |
| Qty.       | 1 items   |

## SAI-8-M 4P IDC

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

www.weidmueller.com

## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E141197                    |

## 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 | 241.12 g |                 |             |

## Temperatures

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

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 4060c755-8d0b-4d43-bdb3-4ffabe9d7497 |

## Connection data

|   |                      |   |                     |
|---|----------------------|---|---------------------|
| Conductor O.D., min.                            | 1.2 mm               | Conductor O.D., max.                            | 1.6 mm              |
| 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, min. | 0.2 mm <sup>2</sup>  | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm <sup>2</sup> |
| 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> |
| max. connection of equal cross-section          | 10                   | Storage space                                   | Standard            |
| Distributor outlet                              | Hood version, IDC    |   |                     |

## 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           | IP67   | Plug-in station coding              | A-coded |
| Number of poles             | 4      | Number of contact sockets           | 8       |
| Connection thread           | M12    | Pollution severity                  | 2       |
| Fire behaviour              | V-0    | 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      | 4      | Conductor O.D., max.        | 1.6 mm |
| Conductor O.D., min. | 1.2 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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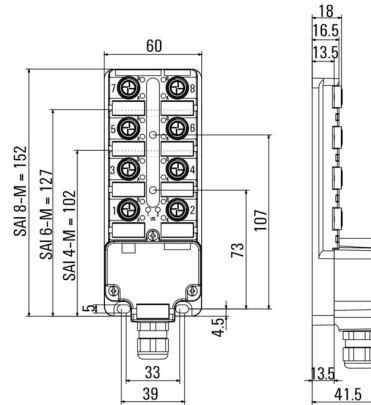
www.weidmueller.com

**Drawings**

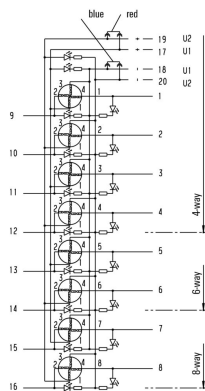
**Similar to illustration**



**Dimensioned drawing**



**Wiring diagram**



## SAI-8-M 4P IDC

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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 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                       |   |  |

## SAI-8-M 4P IDC

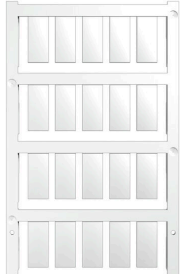
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## Accessories

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

## Insulation displacement connection



Individual cable lengths are often required nowadays. In order to meet these demands, Weidmüller offers a wide range of plug-in connectors for custom assembly. Male plugs and female socket for customisable assembly for M8, M12, M16 and 7/8" connections which are highly robust and ideally suited to machine engineering, for instance. The M12 plug-in connectors offer a choice of 5 different connection systems.

The IDC is simple and quick to assemble since this technology allows the conductor to be inserted directly into the terminal point, without crimping or having to strip the insulation. It also has excellent functional security.

## General ordering data

|            |                            |                                 |  |
|------------|----------------------------|---------------------------------|--|
| Type       | SAI-SA-4-IDC               | Version                         |  |
| Order No.  | <a href="#">1766810000</a> | Field attachable connector, M12 |  |
| GTIN (EAN) | 4032248148233              |                                 |  |
| Qty.       | 1 ST                       |                                 |  |