

## SAIP-M8BW-3L3.0U

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Sensor/actuator cables are used for wiring sensors and actuators and for transmitting data or power in various applications. The moulded cable offers connected and tested connection of the plug-in connector to the cable ex-works. The cables may be exposed to a wide range of conditions, such as humidity, dust, heat, cold, shock or vibration.

Our developers have focused specifically on this issue and designed a host of different M8 and M12 sensor-actuator cables so you are bound to find the solution you need for your application.

The M8 and M12 sensor-actuator cables are supplied as standard with brass nickel-plated nuts. However if you are looking to use our products in an extremely harsh environment, we can also supply a variant with a plastic nut. This enables use in environments where cables with nickel-plated M8 and M12 nuts would rust.

Is there something you have not managed to find or you feel needs explanation? Talk to us!

#### General ordering data

|            |  |
|------------|--|
| Version    | Sensor/actuator line, One end without connector, M8, Number of poles : 3, 3 m, Socket, angled, Shielded: No, LED: Yes, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1383010300</a>   |
| Type       | SAIP-M8BW-3L3.0U   |
| GTIN (EAN) | 4050118192155  |
| Qty.       | 1 items  |

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## Technical data

### Approvals

Approvals



|                       |                            |
|-----------------------|----------------------------|
| ROHS                  | Conform                    |
| UL File Number Search | <a href="#">UL Website</a> |
| Certificate No. (UL)  | E307231                    |

### Dimensions and weights

|          |        |            |         |
|----------|--------|------------|---------|
| Diameter | 3.6 mm | Net weight | 67.76 g |
|----------|--------|------------|---------|

### Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 1c533b66-fcff-4da5-b89f-fd55fbf5cb55 |

### Technical specifications for cable

|                                      |  |  |                             |
|--------------------------------------|--|--|-----------------------------|
| Cable length                         | 3 m  | Sheathing colour                               | black (similar to RAL 9005) |
| Resistance to oils                   | Yes  | Suitable for cable carriers                    | Yes                         |
| Core cross-section                   | 0.25 mm <sup>2</sup>   | Shielded                                       | No                          |
| Halogen                              | No   | Insulation                                     | PP                          |
| Acceleration                         | 5 m/s <sup>2</sup>   | Bending radius, min., moving                   | 10 x cable diameter         |
| Bending radius, min., stationary     | 5 x cable diameter   | Bending cycles                                 | 5 Mio                       |
| Resistance to spread of flame        | in accordance with IEC 60332-2-2, In accordance with UL1581 UL / CUL FT2 | Speed  | 3.33 m/s                    |
| Sheath material                      | PUR  | Configurable cable length                      | No                          |
| Hydrolysis and microbe resistant     | Yes  | Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V)       |
| Core in accordance with UL AWM style | 10493 (80 °C / 300 V)  | Irradiation crosslinked                        | No                          |
| Welding spark resistance             | No   | Drain wire integrated                          | No                          |
| Colour coding                        | brown, blue, black   | Torsion resistance                             | 180 °/m                     |
| Temperature range, stationary        | -50...80 °C  | Resistant to welding beads                     | No                          |
| Bending cycles at torsion            | > 5 Mio.   | Temperature range, moving                      | -25...60 °C                 |
| Length of torsion                    | 1 m  | Number of poles                                | 3                           |
| Outside diameter                     | 3.6 mm + 0.15 mm   |  |                             |

### General technical data

|                              |                |                        |   |
|------------------------------|----------------|------------------------|---|
| Coding                       | A-coded        | Connection thread      | M8                                      |
| Contact surface              | Gold-plated    | LED                    | Yes                                     |
| Version                      | Socket, angled | Housing main material  | PUR                                     |
| Insulation resistance        | 108 Ω          | Nominal voltage        | 24 V                                    |
| Nominal current              | 4 A            | Protection degree      | IP65, IP66, IP67, IP68, when screwed in |
| Plugging cycles              | ≥ 100          | Pollution severity     | 3                                       |
| jumped                       | No             | Threaded ring material | POM                                     |
| Temperature range of housing | -25...+85 °C   |                        |   |

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**Technical data**

**Electrical properties**

|                       |       |                 |      |
|-----------------------|-------|-----------------|------|
| Insulation resistance | 108 Ω | Nominal voltage | 24 V |
|-----------------------|-------|-----------------|------|

**General standards**

|                    |                 |                      |         |
|--------------------|-----------------|----------------------|---------|
| Connector standard | IEC 61076-2-104 | Certificate No. (UL) | E307231 |
|--------------------|-----------------|----------------------|---------|

**Standards**

|                    |                 |
|--------------------|-----------------|
| Connector standard | IEC 61076-2-104 |
|--------------------|-----------------|

**Plug, left**

|           |  |
|-----------|--|
| Plug left | M8, IP69, female contact, angled 90°, Plastic, LED, unshielded |
|-----------|--|

**Plug, right**

|            |                         |
|------------|-------------------------|
| Plug right | free conductor end, LED |
|------------|-------------------------|

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001855    | ETIM 9.0    | EC001855    |
| ETIM 10.0   | EC001855    | ECLASS 14.0 | 27-06-03-11 |
| ECLASS 15.0 | 27-06-03-11 |             |             |

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**Drawings**

**Dimensioned drawing**



Angled socket

**Pole scheme**



Socket

**Wiring diagram**



**The ideal tool: Screwty® with torque function**

Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 1920000000 Adapters: M12, M12 F, M8, M8 F

