

**SAIL-M12BG-8S10U****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.

Our sensor cables come with 360° shielding which provides protection against electromagnetic interference. 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, M12, Number of poles : 8, 10 m, Female socket, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1890521000</a>                                                                                                                                          |
| Type       | SAIL-M12BG-8S10U                                                                                                                                                    |
| GTIN (EAN) | 4032248499465                                                                                                                                                       |
| Qty.       | 1 pc(s).                                                                                                                                                            |

**SAIL-M12BG-8S10U****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data****Dimensions and weights**

|            |       |
|------------|-------|
| Net weight | 532 g |
|------------|-------|

**Technical specifications for cable**

|                                                |                       |                                  |                                                    |
|------------------------------------------------|-----------------------|----------------------------------|----------------------------------------------------|
| Acceleration                                   | 5 m/s <sup>2</sup>    | Bending cycles                   | 1 mill.                                            |
| Bending radius, min., moving                   | 12 x cable diameter   | Bending radius, min., stationary | 5 x cable diameter                                 |
| Cable length                                   | 10 m                  | Colour coding                    | blue, red, white, brown, green, yellow, grey, pink |
| Configurable cable length                      | No                    | Core cross-section               | 0.25 mm <sup>2</sup>                               |
| Halogen                                        | No                    | Insulation                       | PP                                                 |
| Irradiation crosslinked                        | No                    | Number of poles                  | 8                                                  |
| Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V) | Outside diameter                 | 6.3 mm ± 0.2 mm                                    |
| Resistant to welding beads                     | No                    | Sheath material                  | PUR                                                |
| Sheathing colour                               | black                 | Shielded                         | Yes                                                |
| Speed                                          | 100 m/s               | Suitable for cable carriers      | Yes                                                |
| Temperature range, moving                      | -25...80 °C           | Temperature range, stationary    | -40...80 °C                                        |
| Torsion resistance                             | 360 °/m               | Welding spark resistance         | No                                                 |

**General technical data**

|                              |                   |                        |                                   |
|------------------------------|-------------------|------------------------|-----------------------------------|
| AF size                      | 13 mm             | Coding                 | A-coded                           |
| Connection thread            | M12               | Contact surface        | Gold-plated                       |
| Housing main material        | PUR               | Insulation strength    | 10 <sup>8</sup> Ω                 |
| LED                          | No                | Plugging cycles        | ≥ 100                             |
| Pollution severity           | 3                 | Protection degree      | IP67, when screwed in, IP65, IP66 |
| Rated current                | 2 A               | Rated voltage          | 30 V                              |
| Temperature range of housing | -40 ... +85 °C    | Threaded ring material | Brass, nickel-plated              |
| Tightening torque            | M12: 0.8 - 1.2 Nm | Version                | Female socket, straight           |
| jumpered                     | No                |                        |                                   |

**Electrical properties**

|                     |                   |               |      |
|---------------------|-------------------|---------------|------|
| Insulation strength | 10 <sup>8</sup> Ω | Rated voltage | 30 V |
|---------------------|-------------------|---------------|------|

**General standards**

|                         |         |                    |                 |
|-------------------------|---------|--------------------|-----------------|
| Certificate no. (cULus) | E307231 | Connector standard | IEC 61076-2-101 |
|-------------------------|---------|--------------------|-----------------|

**Standards**

|                    |                 |
|--------------------|-----------------|
| Connector standard | IEC 61076-2-101 |
|--------------------|-----------------|

**Plug, left**

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| Plug left | M12, A-coded, IP67, female contact, straight, Plastic, shielded |
|-----------|-----------------------------------------------------------------|

**Plug, right**

|            |                    |
|------------|--------------------|
| Plug right | free conductor end |
|------------|--------------------|

**SAIL-M12BG-8S10U****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data****Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001855    | ETIM 7.0    | EC001855    |
| ETIM 8.0    | EC001855    | ETIM 9.0    | EC001855    |
| ETIM 10.0   | EC001855    | ECLASS 9.0  | 27-06-03-11 |
| ECLASS 9.1  | 27-06-03-11 | ECLASS 10.0 | 27-06-03-11 |
| ECLASS 11.0 | 27-06-03-11 | ECLASS 12.0 | 27-06-03-11 |
| ECLASS 13.0 | 27-06-03-11 | ECLASS 14.0 | 27-06-03-11 |
| ECLASS 15.0 | 27-06-03-11 |             |             |

**Environmental Product Compliance**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | e8d8af70-4c85-4483-bc8c-9bc5b598e2a9 |

**Approvals**

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Certificate no. (cULus) | E307231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Downloads**

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

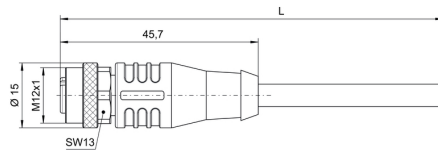
## SAIL-M12BG-8S10U

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

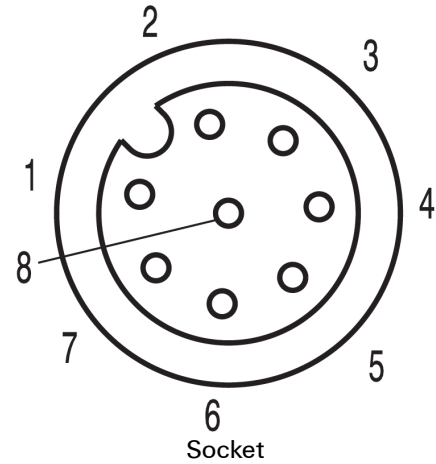
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

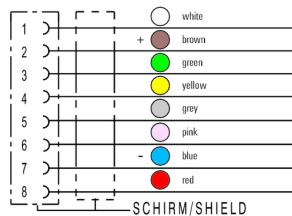
## Dimensioned drawing



## Pole scheme



## 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