

## SAIP-M12GM12SG-5-3.0U

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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

Type	SAIP-M12GM12SG-5-3.0U
Order No.	<a href="#">2028150300</a>
Version	Sensor/actuator line, Connecting line, M12 / M12, Number of poles : 5, 3 m, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
GTIN (EAN)	4050118423532
Qty.	1 pc(s).

**SAIP-M12GM12SG-5-3.0U****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

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

Net weight 200 g

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Technical specifications for cable**

Number of poles	5	Core cross-section	0.34 mm <sup>2</sup>
Outside diameter	5 mm ± 0.2 mm	Cable length	3 m
Shielded	No	Insulation	PP
Colour coding	brown, white, blue, black, grey	Sheath material	PUR
Sheathing colour	black	Halogen	No
Temperature range, moving	-25...80 °C	Temperature range, stationary	-40...80 °C
Core in accordance with UL AWM style	10493 (80 °C / 300 V)	Outer cladding in accordance with UL AWM style	20233 (80 °C / 300 V)
Suitable for cable carriers	Yes	Torsion resistance	360 °/m
Bending radius, min., stationary	5 x cable diameter	Bending radius, min., moving	10 x cable diameter
Acceleration	5 m/s <sup>2</sup>	Speed	5 m/s
Bending cycles	2 Mio	Resistant to welding beads	No
Configurable cable length	No	Hydrolysis and microbe resistant	Yes
LABS-free	Yes	Resistance to oils	in accordance with IEC 60811:404
Resistance to spread of flame	In accordance with UL1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2		

**General technical data**

AF size	12 mm	Connection thread	M12 / M12
Housing main material	PUR	Threaded ring material	Plastic
Protection degree	IP65, IP66, IP67, IP68, when screwed in	Contact surface	Gold-plated
LED	No	Rated voltage	125 V
Rated current	4 A	Insulation strength	10 <sup>8</sup> Ω
Temperature range of housing	-25...+80 °C	Plugging cycles	≥ 100
Pollution severity	3	Plugging cycles jumpered	No

**Standards**

Connector standard IEC 61076-2-101

**Classifications**

ETIM 6.0	EC001855	ETIM 7.0	EC001855
eClass 9.0	27-06-03-11	eClass 9.1	27-06-03-11
eClass 10.0	27-06-03-11		

**Approvals**

ROHS Conform

Creation date May 2, 2020 11:20:48 PM CEST

**SAIP-M12GM12SG-5-3.0U**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Technical data****Downloads**

---

Brochure/Catalogue	<a href="#">FL FIELDWIRING EN</a>
Product Change Notification	<a href="#">Technical change to M12 plastic nuts - EN</a> <a href="#">Technical change to M12 plastic nuts - DE</a>

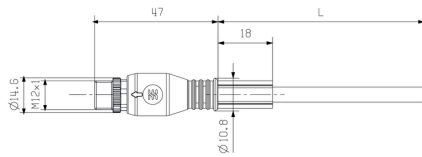
---

**SAIP-M12GM12SG-5-3.0U**

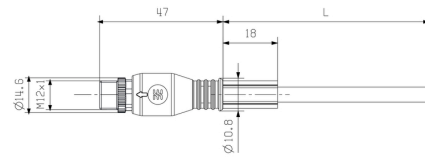
**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Drawings**

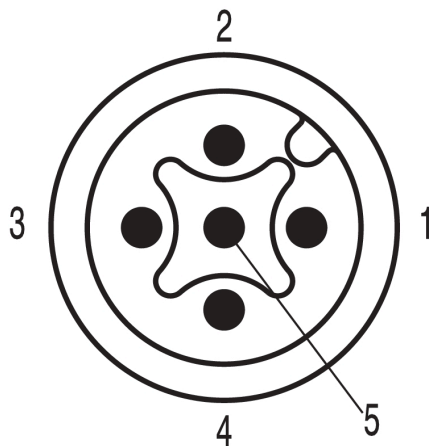
**Dimensioned drawing**



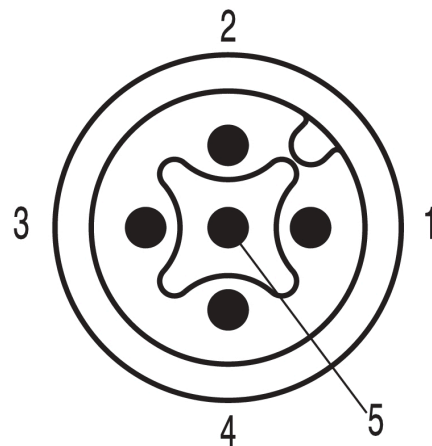
**Dimensioned drawing**



**Pole scheme**



**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