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Sensor/actuator flush-type plug, 17-pos., M12 SPEEDCON, rear/screw mounting with M12 thread, with 0.5 m halogen-free TPE litz wire, 17 x 0.14 mm^2

Your advantages

- Pre-assembled with litz wires for immediate use
- ☑ Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- Standard pin assignments for signal and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut
- ☑ SPEEDCON fast locking system reduces cabling times



Key Commercial Data

| Packing unit | 1 pc |
|--------------------------------------|---------------------------|
| GTIN | 4 0 4 6 3 5 6 4 4 9 5 9 5 |
| GTIN | 4046356449595 |
| Weight per Piece (excluding packing) | 40.000 g |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Dimensions

| Length of cable | 0.5 m |
|-----------------|-------|
| | |

Ambient conditions

| Ambient temperature (operation) | -25 °C 85 °C (Plug / socket) |
|---------------------------------|------------------------------|
| Degree of protection | IP67 (When plugged in) |



Technical data

Ambient conditions

| | IP65 (When plugged in) |
|-----------------------------|--|
| General | |
| Note | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| Rated current at 40°C | 1.5 A |
| Rated voltage | 30 V |
| Rated surge voltage | 0.8 kV |
| Number of positions | 17 |
| Insulation resistance | \geq 100 M Ω |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Overvoltage category | 11 |
| Degree of pollution | 3 |
| Connection method | Individual wires |
| Insertion/withdrawal cycles | > 100 |
| Torque | 1.5 Nm 2 Nm (Installation-side) |
| Mounting type | Rear mounting M12 x 1 With flat nut |

Material

| Flammability rating according to UL 94 | V0 |
|--|------------------------------|
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA 6.6 |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

Cable

| Cable type | TPE litz wire |
|------------------------------------|--|
| Conductor cross section | 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 1.1 mm ±0.05 mm |
| Thickness, insulation | 0.21 mm (Core insulation) |
| Wire colors | brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray |
| Material conductor insulation | TPE |



Technical data

Cable

| Standards/specifications | M12 connector IEC 61076-2-101 |
|---------------------------------|---|
| Insulation resistance | \geq 20 M Ω^{*} km |
| Conductor resistance | \leq 57.6 m Ω /m |
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 2000 V AC |
| Ambient temperature (operation) | -40 °C 85 °C (cable, fixed installation) |
| | -25 °C 85 °C (cable, flexible installation) |

Standards and Regulations

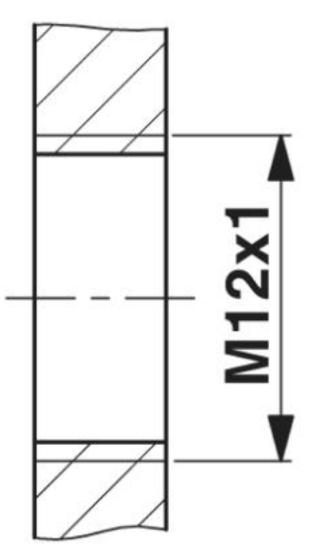
| Standards/specifications | M12 connector IEC 61076-2-101 |
|--|-------------------------------|
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

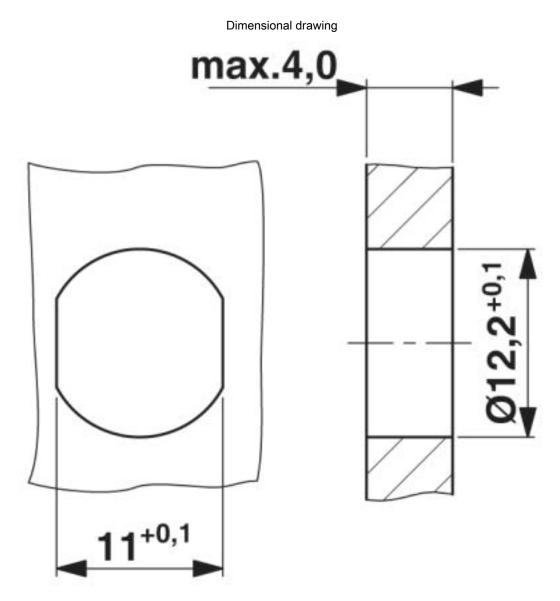




Dimensional drawing

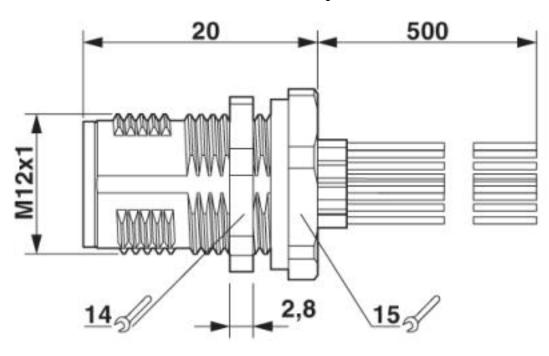
Housing cutout for M12 fastening thread, mounting panel with thread





Housing cutout for M12 fastening thread, mounting panel with feed-through hole (alternative with surface as protection against rotation)

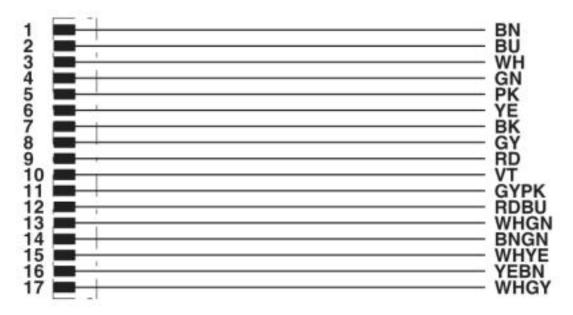




Dimensional drawing

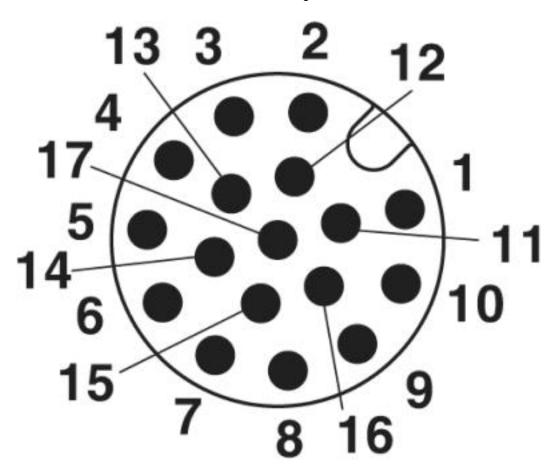
M12 flush-type connector

Circuit diagram



Contact assignment of the M12 plug





Schematic diagram

Pin assignment M12 male connector, 17-pos., male side view

Classifications

eCl@ss

| eCl@ss 10.0.1 | 27440102 |
|---------------|----------|
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |



Classifications

ETIM

| ETIM 3.0 | EC002061 |
|----------|----------|
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

UNSPSC

| UNSPSC 6.01 | 31251501 |
|---------------|----------|
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 39121413 |
| UNSPSC 18.0 | 39121413 |
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

Approvals

Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

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Approval details

| EAC EHL B.01687 | | EAC | EAC | B.01687 |
|------------------------|--|-----|-----|---------|
|------------------------|--|-----|-----|---------|

| cULus Recognized | c RL us | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E221474-2014061 | | E221474-20140616 |
|--------------------|----------------|---|------|------------------|
| | | | | |
| Nominal voltage UN | | | 30 V | |

05/16/2020 Page 8 / 9



Approvals

| Nominal current IN | 1.5 A |
|--------------------|-------|
| mm²/AWG/kcmil | 26 |

Accessories

Accessories

Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

Sealing cap - PROT-M12 FS-M - 1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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