

## Flush-type connector - SACC-EC-FS-8CON-M16/0,5 SCO - 1523489

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Sensor/Actuator flush-type socket, 8-pos., M12-SPEEDCON, A-coded, front/screw mounting with M16 thread, can be positioned, with 0.5 m TPE litz wire, 8 x 0.25 mm<sup>2</sup>

### 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
- ✓ All standard pin assignments and codings for signal, data, 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                                 | <br>4 046356 021319 |
| GTIN                                 | 4046356021319                                                                                           |
| Weight per Piece (excluding packing) | 30.000 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                             |

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## Technical data

### 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       | 2 A                                                                                                                                                                                                                                                                                                                                                |
| Rated voltage               | 30 V                                                                                                                                                                                                                                                                                                                                               |
| Rated surge voltage         | 0.8 kV                                                                                                                                                                                                                                                                                                                                             |
| Number of positions         | 8                                                                                                                                                                                                                                                                                                                                                  |
| Insulation resistance       | ≥ 100 MΩ                                                                                                                                                                                                                                                                                                                                           |
| Coding                      | A - standard                                                                                                                                                                                                                                                                                                                                       |
| Standards/regulations       | M12 connector IEC 61076-2-101                                                                                                                                                                                                                                                                                                                      |
| Status display              | No                                                                                                                                                                                                                                                                                                                                                 |
| Overvoltage category        | II                                                                                                                                                                                                                                                                                                                                                 |
| Degree of pollution         | 3                                                                                                                                                                                                                                                                                                                                                  |
| Connection method           | Individual wires                                                                                                                                                                                                                                                                                                                                   |
| Insertion/withdrawal cycles | > 100                                                                                                                                                                                                                                                                                                                                              |
| Torque                      | 3 Nm ... 4 Nm (Installation-side)                                                                                                                                                                                                                                                                                                                  |
| Mounting type               | Front mounting M16 x 1.5 With locking nut                                                                                                                                                                                                                                                                                                          |

### Material

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

### Cable

|                                    |                                                    |
|------------------------------------|----------------------------------------------------|
| Cable type                         | TPE litz wire                                      |
| Conductor cross section            | 0.25 mm²                                           |
| AWG signal line                    | 24                                                 |
| Conductor structure signal line    | 14x 0.15 mm                                        |
| Core diameter including insulation | 1.15 mm ±0.07 mm                                   |
| Thickness, insulation              | 0.21 mm (Core insulation)                          |
| Wire colors                        | Brown, blue, white, gray, pink, green, yellow, red |
| Material conductor insulation      | TPE                                                |
| Conductor material                 | Tin-plated Cu litz wires                           |
| Standards/specifications           | M12 connector IEC 61076-2-101                      |

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### Technical data

#### Cable

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Insulation resistance           | $\geq 20 \text{ M}\Omega \cdot \text{km}$       |
| Conductor resistance            | $\leq 80 \text{ m}\Omega/\text{m}$              |
| 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

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

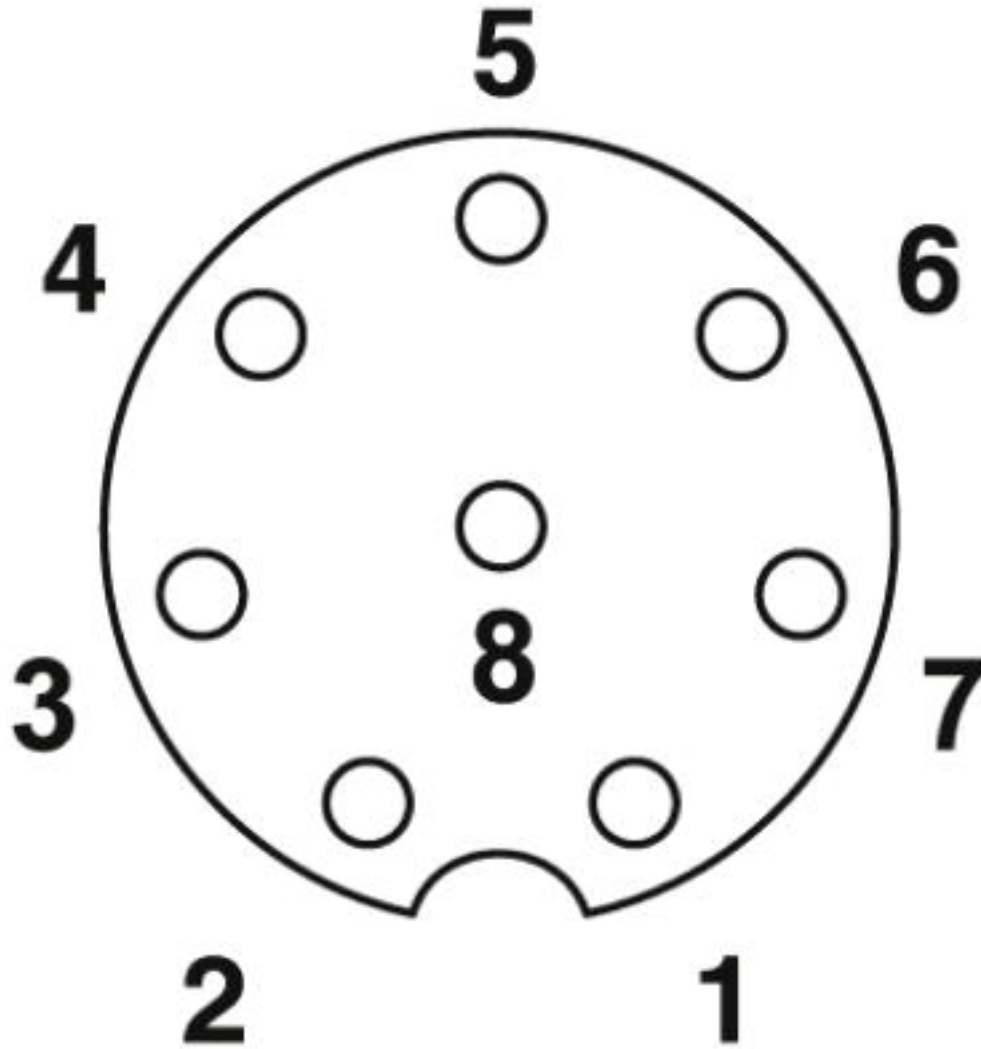
#### Environmental Product Compliance

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

### Drawings

## Flush-type connector - SACC-EC-FS-8CON-M16/0,5 SCO - 1523489

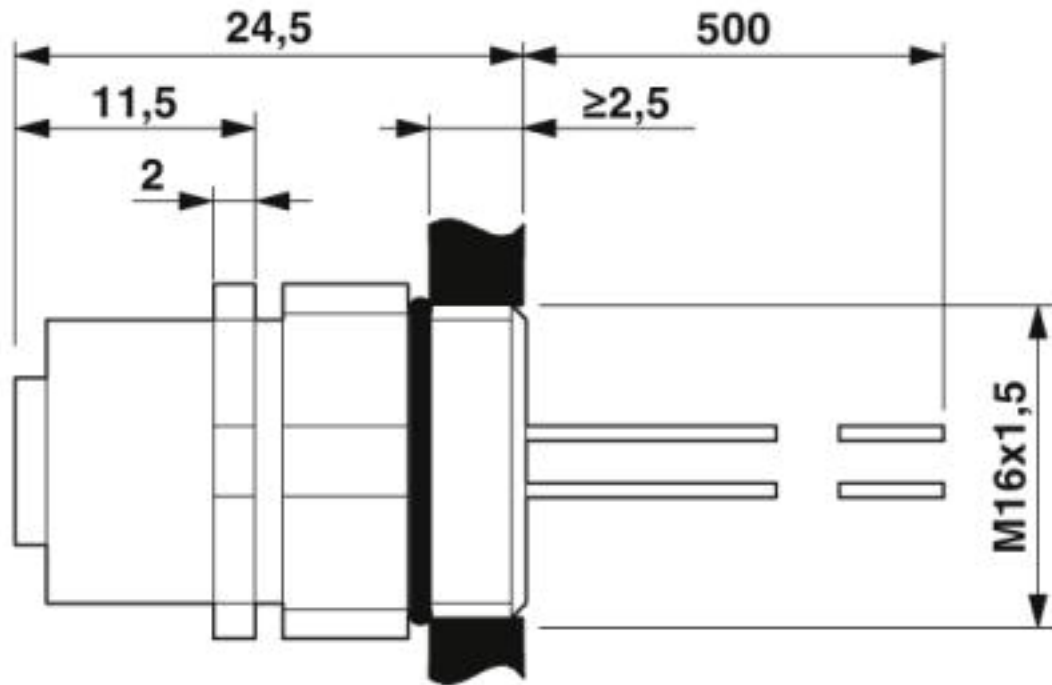
Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

## Flush-type connector - SACC-EC-FS-8CON-M16/0,5 SCO - 1523489

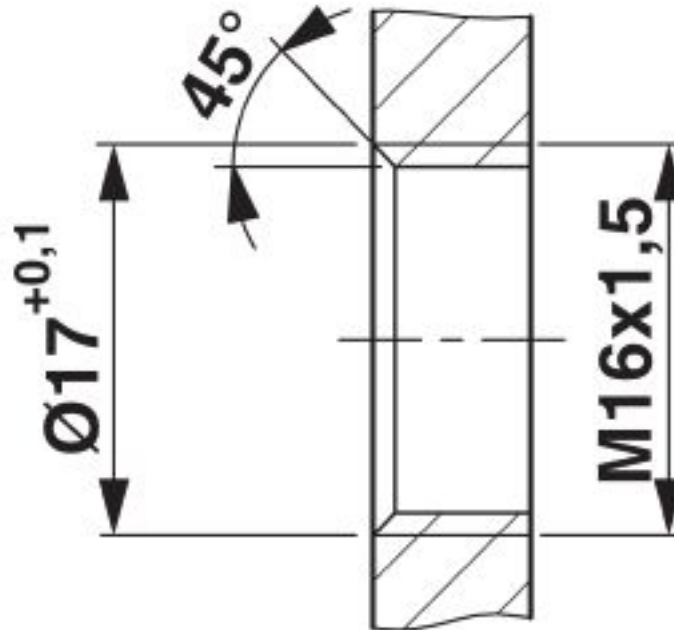
Dimensional drawing



M12 flush-type socket, can be positioned

## Flush-type connector - SACC-EC-FS-8CON-M16/0,5 SCO - 1523489

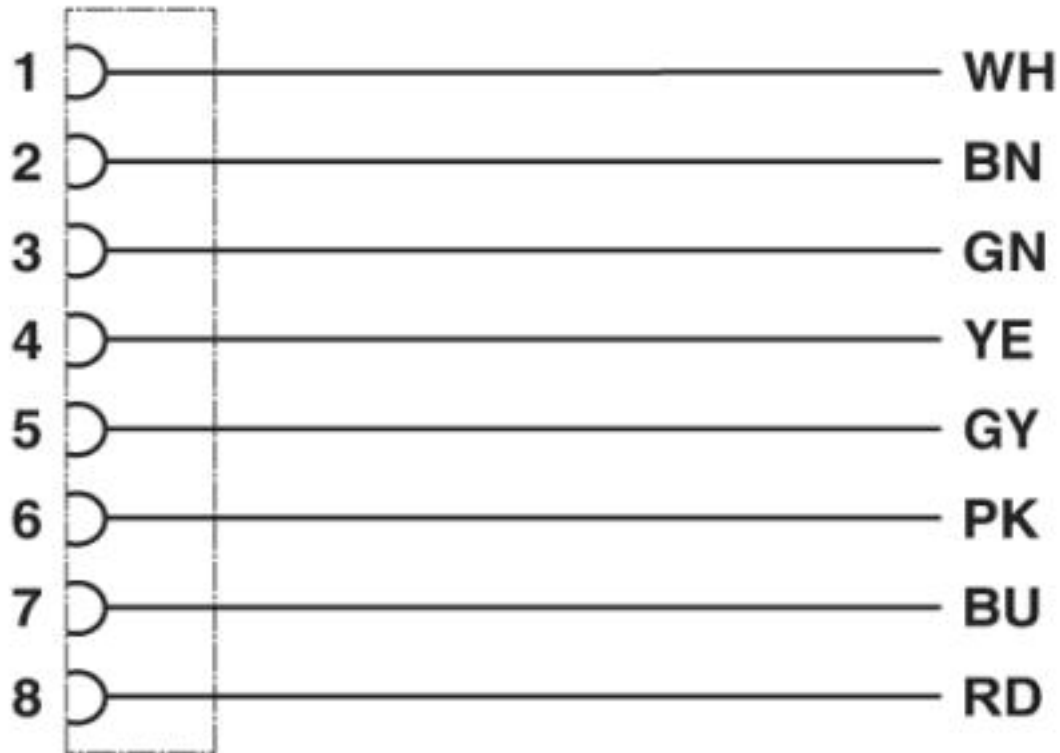
Dimensional drawing



Housing cutout for M16 fastening thread, mounting panel with thread

## Flush-type connector - SACC-EC-FS-8CON-M16/0,5 SCO - 1523489

Circuit diagram



Contact assignment of the M12 socket

### 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 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC002061 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002062 |
| 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

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UL Recognized / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |  |                                                                                     |                                                                                                                                                       |               |
|--------------------|--|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized      |  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN |  | 30 V                                                                                |                                                                                                                                                       |               |
| Nominal current IN |  | 2 A                                                                                 |                                                                                                                                                       |               |
| mm²/AWG/kcmil      |  | 24                                                                                  |                                                                                                                                                       |               |

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.00767 |
|-----|-------------------------------------------------------------------------------------|---------|



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### Approvals

|                    |                                                                                   |                                                                                                                                                       |                  |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| cULus Recognized   |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E221474-20140616 |
| Nominal voltage UN |                                                                                   | 30 V                                                                                                                                                  |                  |
| Nominal current IN |                                                                                   | 2 A                                                                                                                                                   |                  |
| mm²/AWG/kcmil      |                                                                                   | 24-22                                                                                                                                                 |                  |

### Accessories

#### Accessories

##### Plug for cable screw gland

Screw plug - PROT-M12 - 1680539



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

Screw plug - PROT-M12 SH - 1503302



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

Screw plug - PROT-M12 FB - 1555538



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

### Seal

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### Accessories

Flat gasket - SACC-M16-SEAL CLM - 1430394



M16 flat gasket, for rear mounting of M12 flush-type connectors with M16 fastening thread

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