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# Device connector, rear mounting - SACC-DSI-FS-12CON-PG9/0,5 SCO

1430446

https://www.phoenixcontact.com/gb/products/1430446

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Sensor/actuator flush-type socket, 12-pos., M12 SPEEDCON, rear/screw mounting with Pg9 thread, with 0.5 m halogen-free TPE litz wire, 12 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
- 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

## Commercial Data

| | |
|---|---|
| Item number | 1430446 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | ABQCDH |
| Product Key | ABQCDH |
| Catalog Page | Page 46 (C-2-2019) |
| GTIN | 4046356325806 |
| Weight per Piece (including packing) | 29.1 g |
| Weight per Piece (excluding packing) | 29.1 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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## Technical Data

### Notes

| | |
|---|---|
| Notes on operation | 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. |

### Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Number of positions | 12 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A - standard |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | II |
| Degree of pollution | 3 |

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 (When plugged in) |
| | IP65 (When plugged in) |
| Degree of protection | IP65/IP67 |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| | -40 °C ... 85 °C (without mechanical actuation) |
| | -25 °C ... 85 °C (Cable, flexible installation) |
| | -40 °C ... 85 °C (cable, fixed installation) |

### Connector

| | |
|---|---|
| Insertion/withdrawal cycles | > 100 |

Header 1

| | |
|---|---|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M12 |
| Head locking type | SPEEDCON |
| Coding | A-coded |

Head 2

| | |
|---|---|
| Head design | free cable end |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 0.8 kV |

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| | |
|---|---|
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 30 V |
| Nominal current $I_N$ | 1.5 A |

## Material specifications

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

## Connection data

### Conductor connection

| | |
|---|---|
| Connection method | Individual wires |

## Mounting

| | |
|---|---|
| Mounting type | Rear mounting Pg9 With flat nut |
| Assembly instructions | With flat nut |

## Standards and regulations

### M12

| | |
|---|---|
| Standards/specifications | IEC 61076-2-101 |

## Cable / line

| | |
|---|---|
| Cable length | 0.5 m |

### Cable structure

| | |
|---|---|
| Cable type | TPE litz wire |
| Signal type/category | Universal |
| Conductor material | Tin-plated Cu litz wires |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Material wire insulation | TPE |
| Thickness, insulation | 0.21 mm |
| Wire diameter incl. insulation | 1.1 mm ±0.05 mm |
| Single wire, color | Brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue |

### Electrical properties

| | |
|---|---|
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 2000 V AC |

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| | |
|---|---|
| Conductor resistance | ≤ 57.6 mΩ/m |
| Cable insulation resistance | ≥ 20 MΩ*km |

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 85 °C (Cable, flexible installation) |
| | -40 °C ... 85 °C (cable, fixed installation) |

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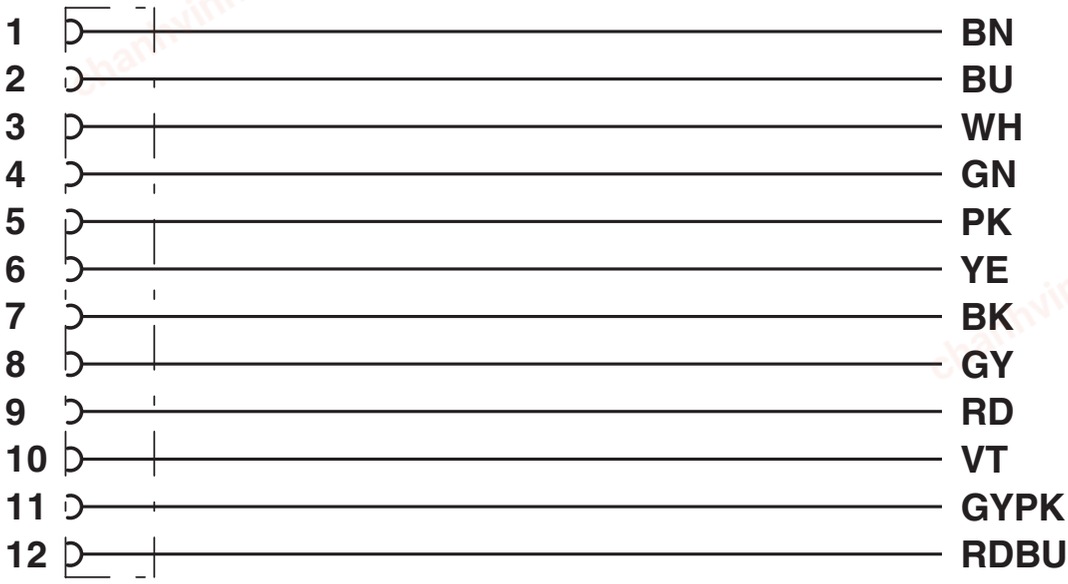
# Device connector, rear mounting - SACC-DSI-FS-12CON-PG9/0,5 SCO

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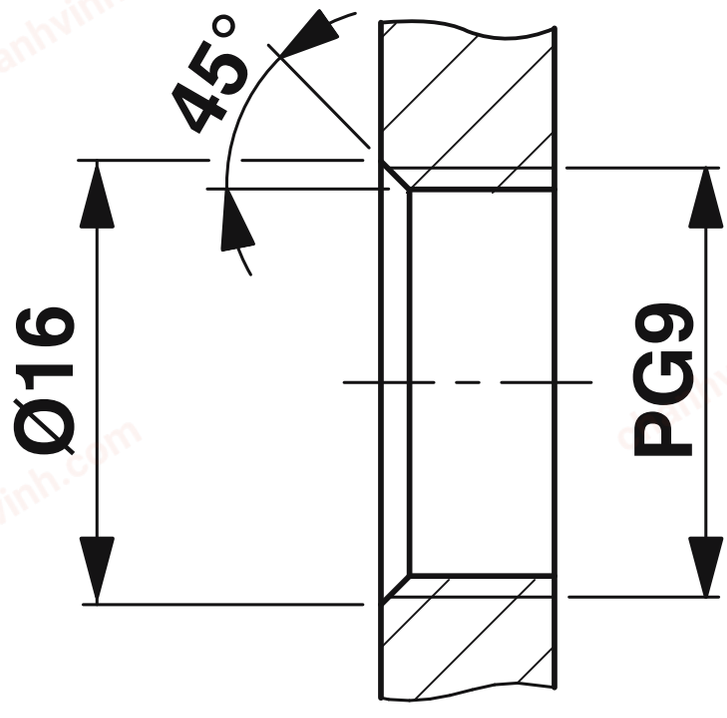
## Drawings

Circuit diagram




Contact assignment of the M12 socket

Dimensional drawing




Housing cutout for Pg9 fastening thread, mounting panel with thread

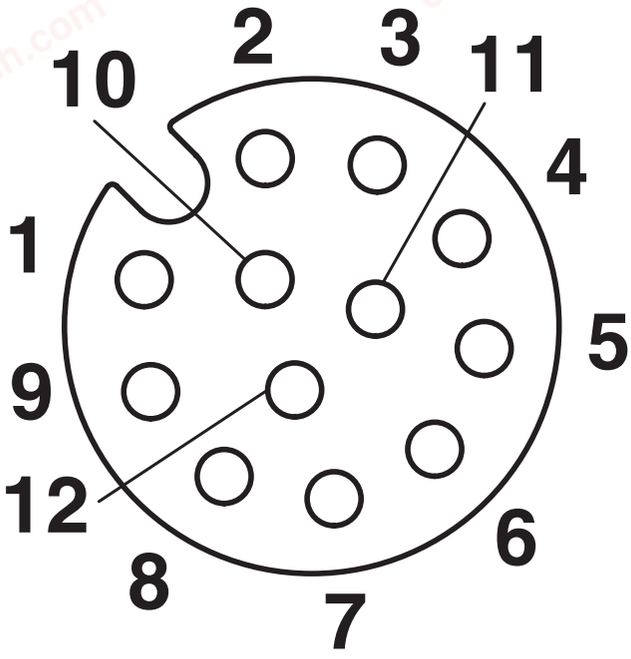
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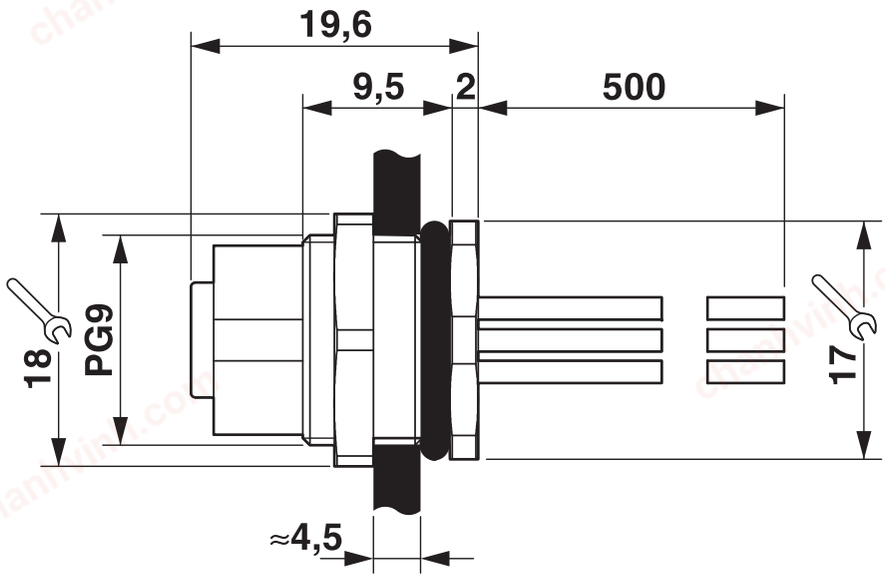
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Schematic diagram




Pin assignment M12, 12-pos., female side view

Dimensional drawing




M12 flush-type connector

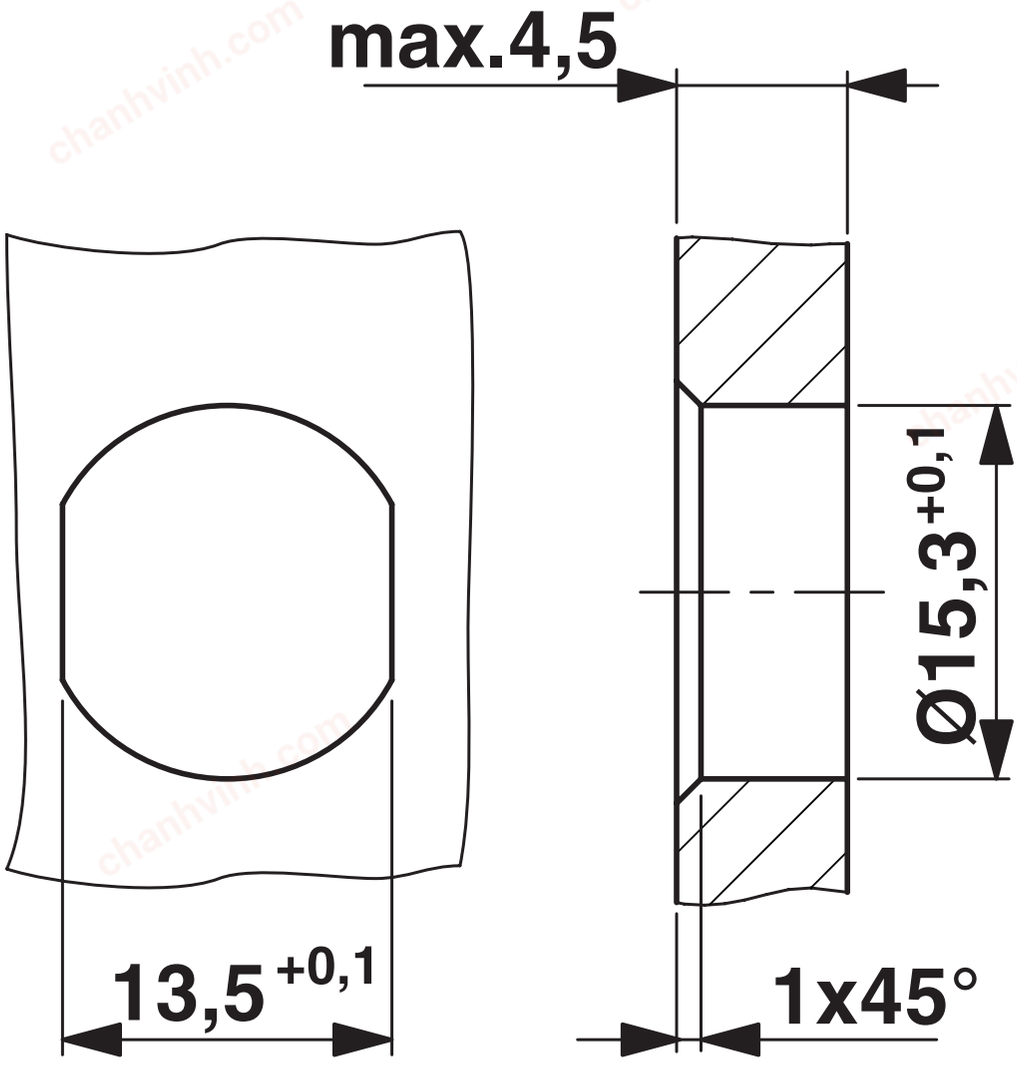
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Dimensional drawing




Housing cutout for Pg9 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

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## Approvals

**EAC**
Approval ID: B.01687

**cULus Recognized**
Approval ID: E221474-20140616

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | 30 V | 1.5 A | - 26 | - |

**UL Recognized**
Approval ID: FILE E 118976

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | 30 V | 1.5 A | - 26 | - |

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-9.0 | 27440102 |
| ECLASS-10.0.1 | 27440102 |
| ECLASS-11.0 | 27440102 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC002635 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

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## Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |

| | |
|---|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads” |

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## Accessories

### Screw plug

Screw plug - PROT-M12 - 1680539

https://www.phoenixcontact.com/gb/products/1680539



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

### Screw plug

Screw plug - PROT-M12 SH - 1503302

https://www.phoenixcontact.com/gb/products/1503302



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

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## Screw plug

Screw plug - PROT-M12 FB - 1555538

https://www.phoenixcontact.com/gb/products/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

## Flat gasket

Flat gasket - SACC-PG9-SEAL CLM - 1556320

https://www.phoenixcontact.com/gb/products/1556320

Pg9 flat gasket, for M12 flush-type connectors with Pg9 fastening thread



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