Device connector, rear mounting - SACC-DSI-M12FS-12CON-M16/0,5

1419713

https://www.phoenixcontact.com/pc/products/1419713

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Sensor/actuator flush-type socket, 12-pos., M12 SPEEDCON, rear/screw mounting with M16 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

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Commercial Data

Item number	1419713
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	ABQCDH
Catalog Page	Page 49 (C-2-2019)
GTIN	4046356533560
Weight per Piece (including packing)	29.9 g
Weight per Piece (excluding packing)	29.4 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 thread type	M12
Coding	A-coded

Electrical properties

Rated surge voltage	0.8 kV
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
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 (Core insulation)
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
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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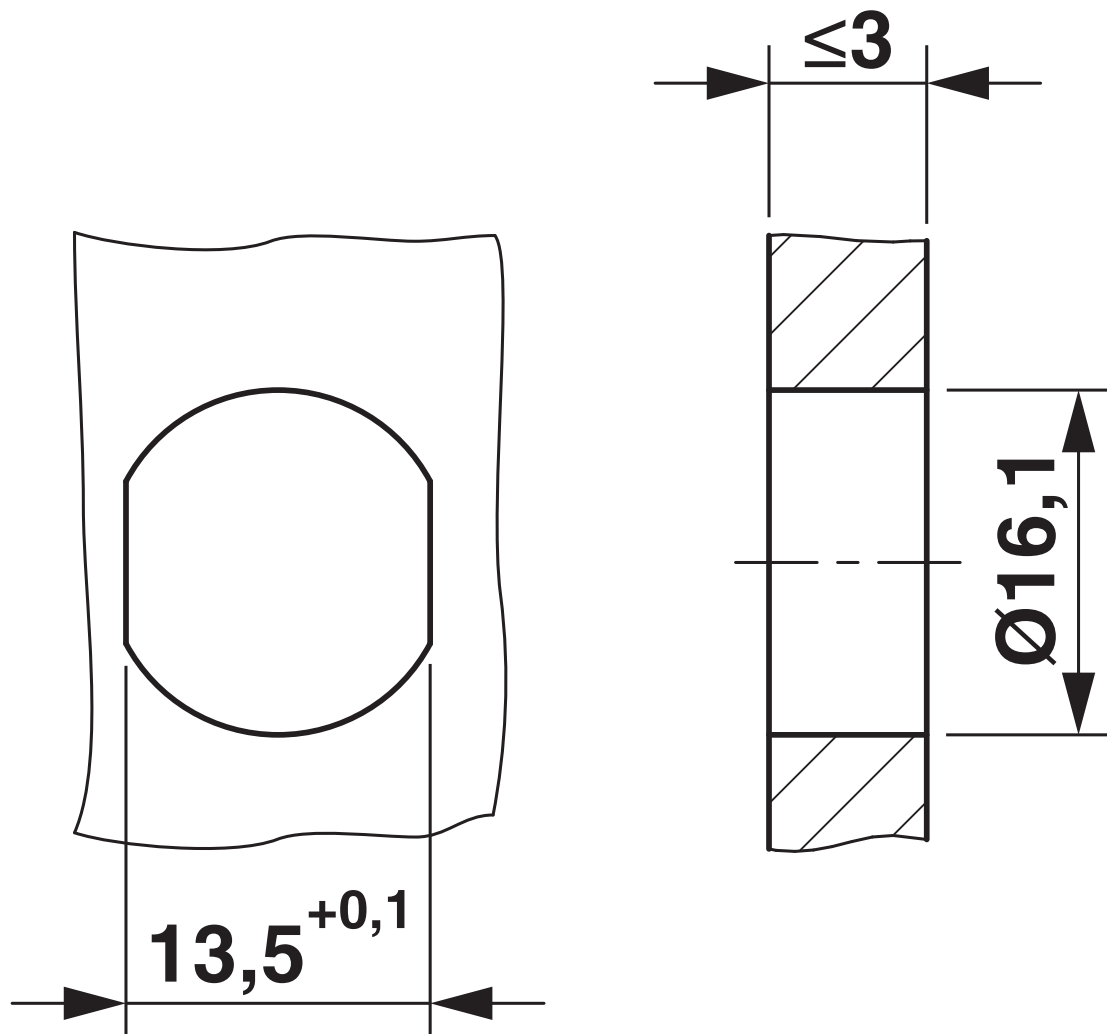https://www.phoenixcontact.com/pc/products/1419713

Drawings

Dimensional drawing
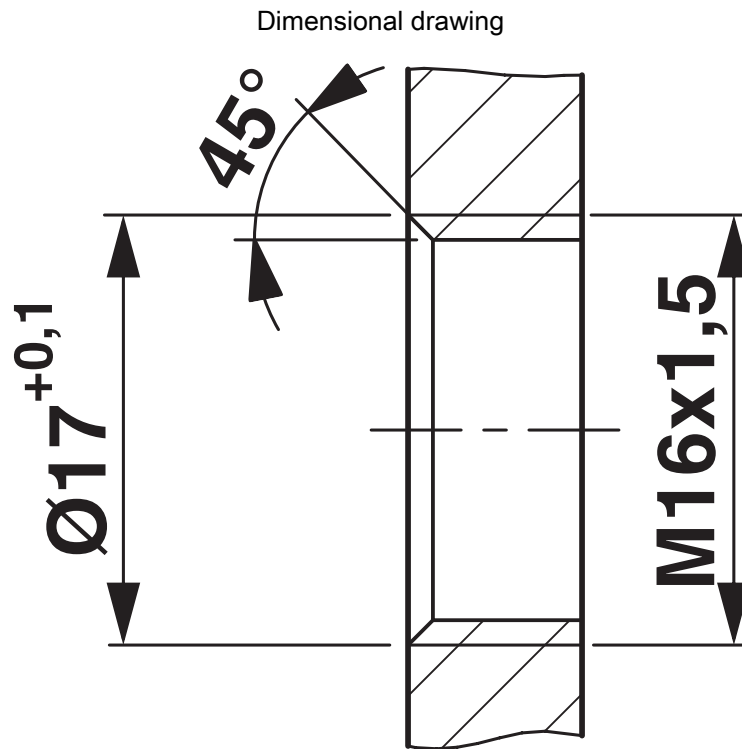
Housing cutout for M16 fastening thread, mounting panel with thread

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https://www.phoenixcontact.com/pc/products/1419713
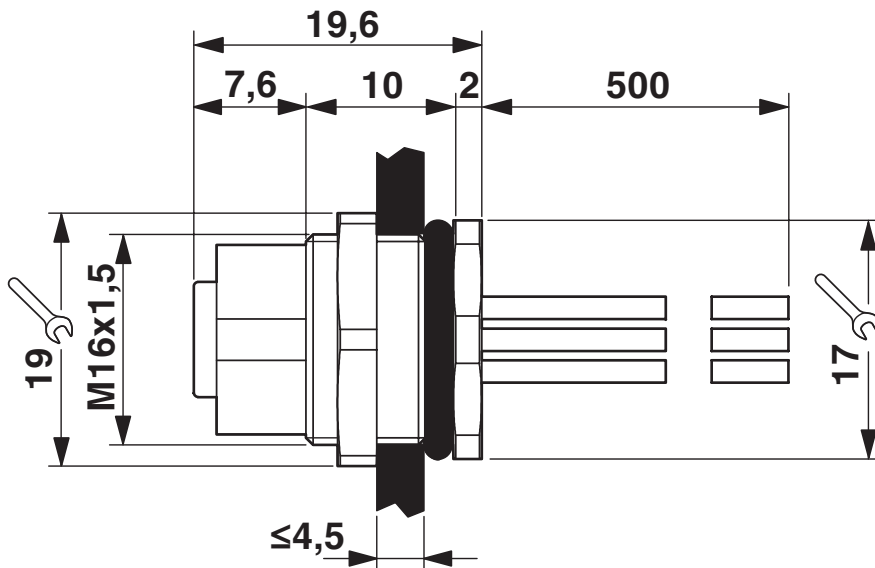
Dimensional drawing

Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with area as anti-rotation protection for panel thicknesses > 2 mm up to max. 4.5 mm)
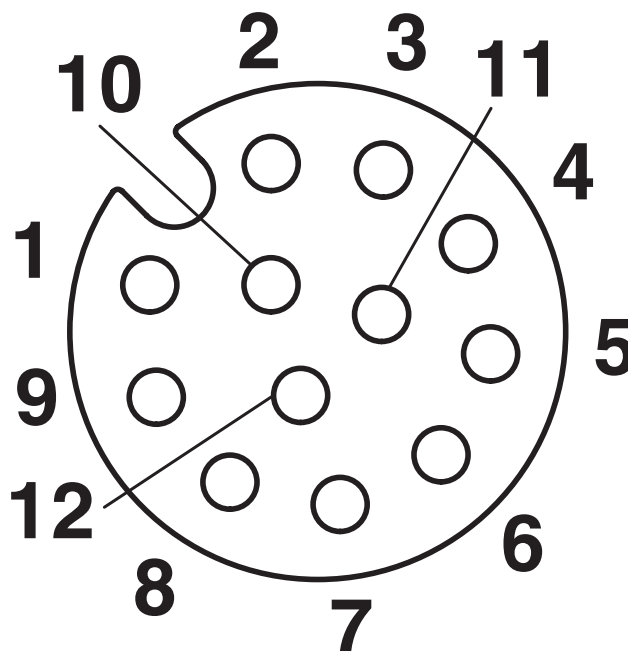
Dimensional drawing

M12 flush-type socket

Schematic diagram

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

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Circuit diagram

1		**BN**
2		**BU**
3		**WH**
4		**GN**
5		**PK**
6		**YE**
7		**BK**
8		**GY**
9		**RD**
10		**VT**
11		**GYPK**
12		**RDBU**

Contact assignment of the M12 socket

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Approvals

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	-

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	-

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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/pc/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/pc/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/pc/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-M16-SEAL CLM - 1430394

https://www.phoenixcontact.com/pc/products/1430394

M16 flat gasket for M12 flush-type connectors with M16 fastening thread