

# Panel feed-through - SACC-DSI-M12MS-12CON-M16 SH



1441943

<https://www.phoenixcontact.com/au/products/1441943>

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Sensor/actuator flush-type plug, 12-pos. with shield contact, M12 SPEEDCON, A-coded, rear/screw mounting with M16 thread, with straight solder connection

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## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- SPEEDCON fast locking system reduces cabling times
- For high transmission reliability: optional shield connection to the housing by means of shield contact



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## Commercial Data

Item number	1441943
Packing unit	20 pc
Minimum order quantity	20 pc
Sales Key	ABQCAA
Product Key	ABQCAA
Catalog Page	Page 251 (C-2-2013)
GTIN	4046356534161
Weight per Piece (including packing)	15.797 g
Weight per Piece (excluding packing)	15.797 g
Customs tariff number	85366990
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.
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### Product properties

Product type	Circular connectors (device side)
Number of positions	12
Shielded	yes
Coding	A - standard

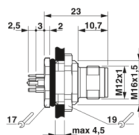
### Insulation characteristics

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)

### Dimensions

Dimensional drawing	
Length of the solder pin	6 mm
	6 mm

### Connector

Insertion/withdrawal cycles	> 100
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### Header 1

Head thread type	M12
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### Electrical properties

Rated surge voltage	0.8 kV
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Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
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	Solder pins
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## Mounting

Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly instructions	With flat nut

## Standards and regulations

### M12

Standards/specifications	IEC 61076-2-101
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## Cable / line

### Ambient conditions

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



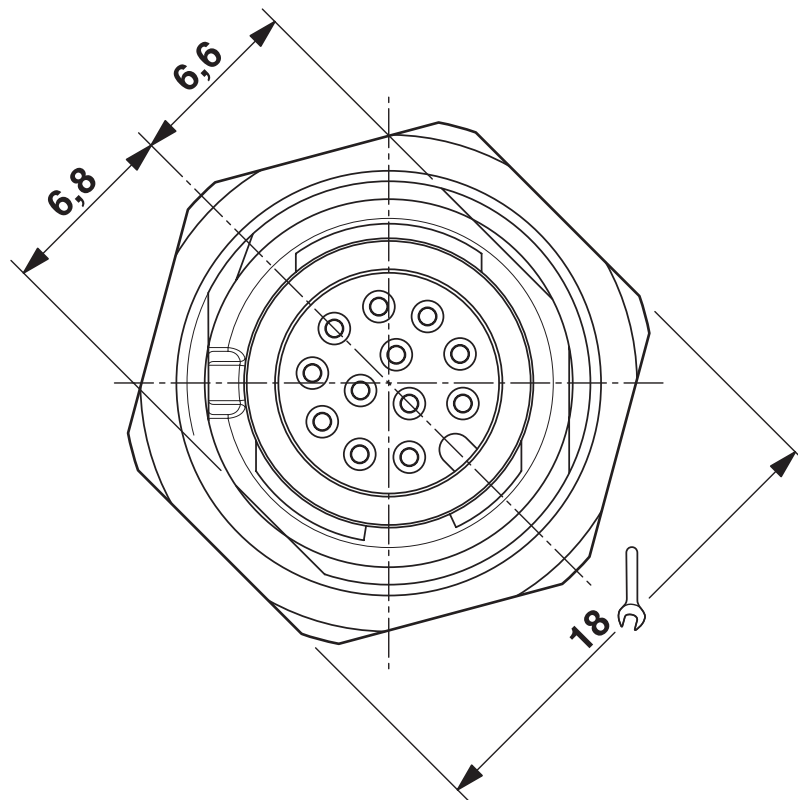
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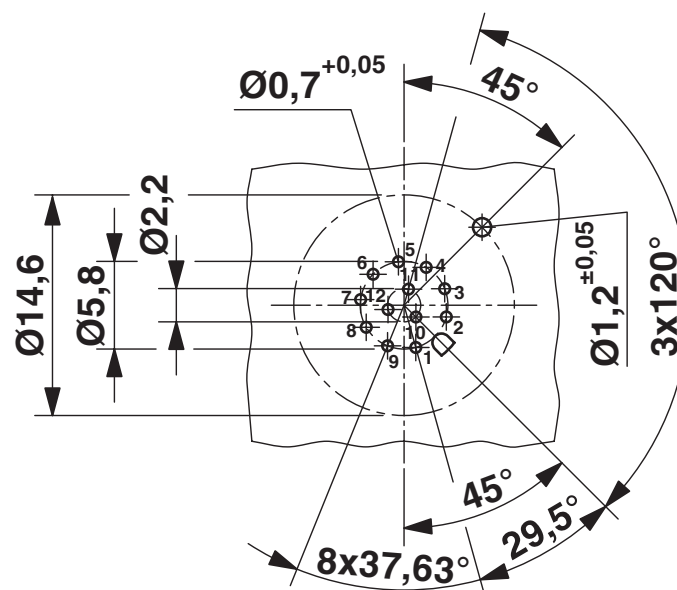
## Drawings

Dimensional drawing



M12 front view

Drilling plan/solder pad geometry



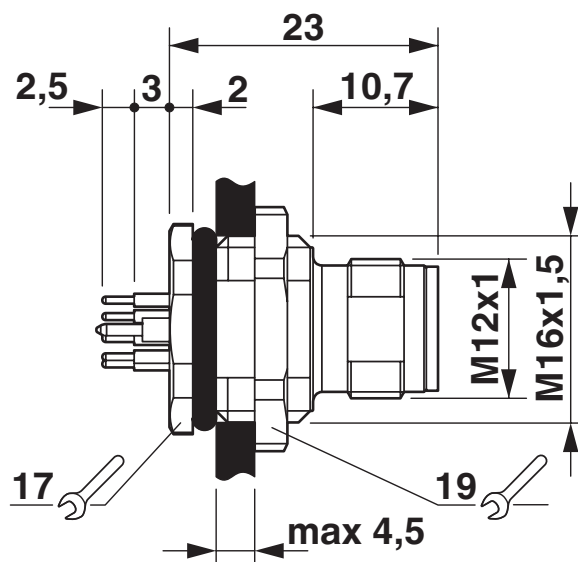


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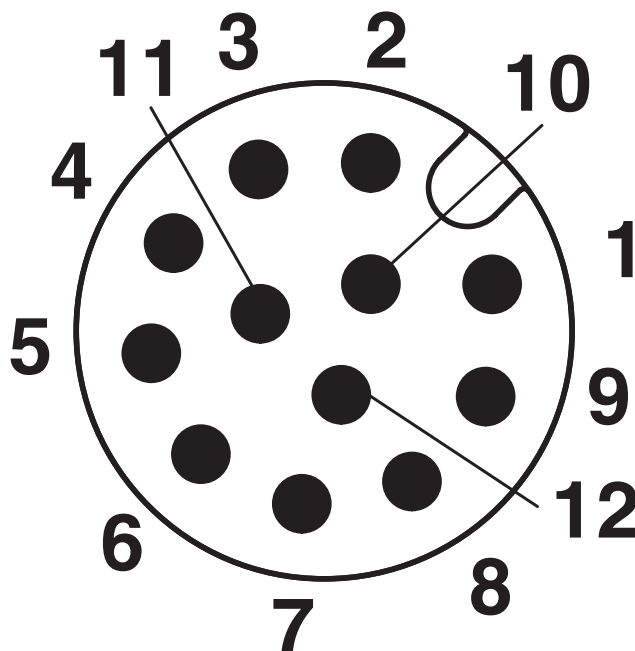
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Dimensional drawing



Schematic diagram



Pin assignment M12 male connector, 12-pos., male side view



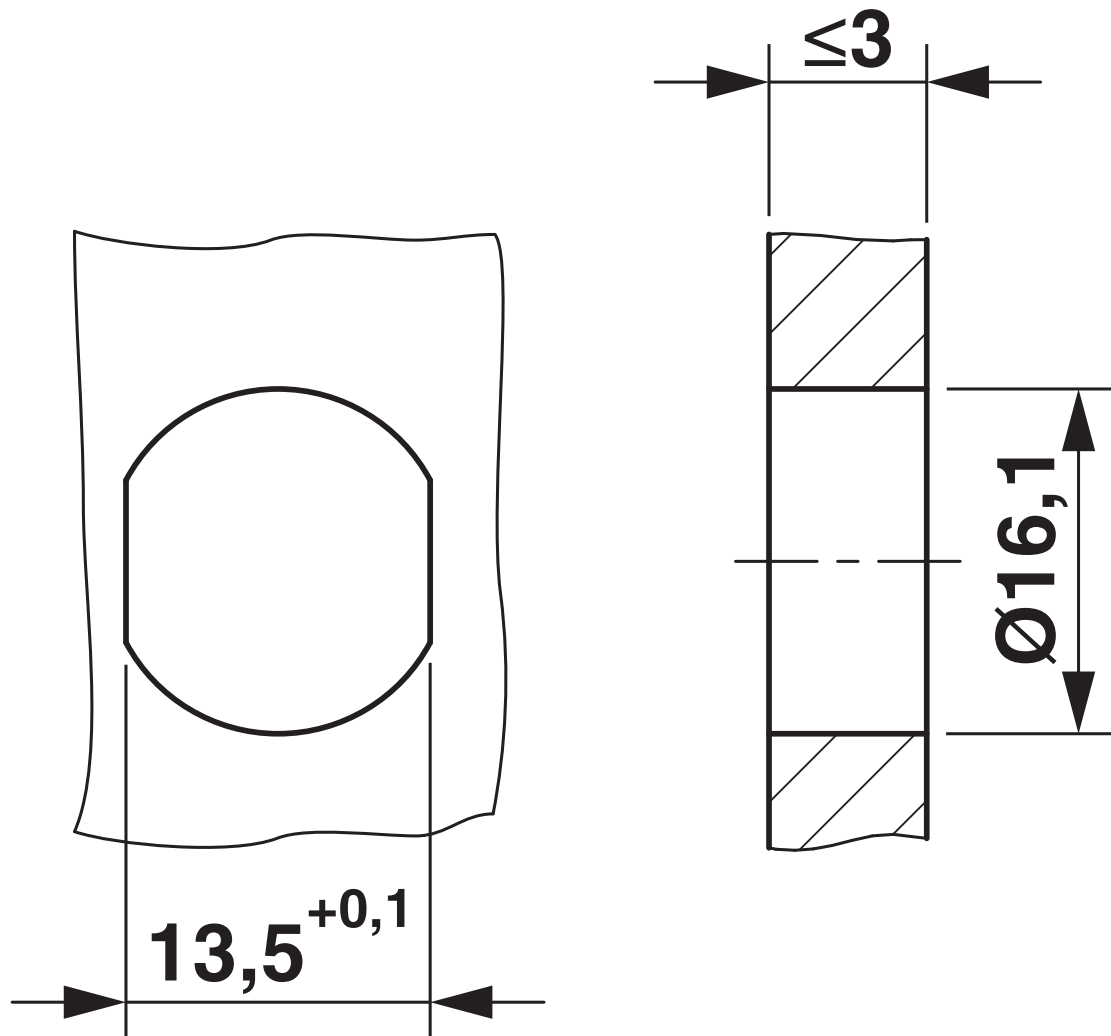
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Dimensional drawing



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)



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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 $\text{mm}^2$
	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 $\text{mm}^2$
	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
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### 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

### Flat gasket

Flat gasket - SACC-M16-SEAL CLM - 1430394

<https://www.phoenixcontact.com/au/products/1430394>

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



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### Sealing cap

Sealing cap - PROT-M12 FS - 1560251

<https://www.phoenixcontact.com/au/products/1560251>

M12 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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## Sealing cap

Sealing cap - PROT-M12 FS-M - 1430488

<https://www.phoenixcontact.com/au/products/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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PHOENIX CONTACT PTY Ltd

Unit 7, 2-8 South Street

Rydalmere NSW 2116

1300 786 411

[customerservice@phoenixcontact.com.au](mailto:customerservice@phoenixcontact.com.au)