Flush-type connector - SACC-CI-M12MS-4CON-L180 THR

1437164

https://www.phoenixcontact.com/us/products/1437164

Sensor/actuator flush-type plug, 4-pos., A-coded, with straight THR solder connection, only contact insert

Your advantages

- Reduced mounting costs thanks to two-piece device connector
- Packaging available for automated pick and place assembly
- All common pin assignments and codings available
- Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate
- Additional gasket for the device when not plugged in

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Commercial Data

Item number	1437164
Packing unit	1 pc
Minimum order quantity	60 pc
Sales Key	A11
Product Key	ABQCBE
Catalog Page	Page 256 (C-2-2013)
GTIN	4046356457118
Weight per Piece (including packing)	4.48 g
Weight per Piece (excluding packing)	3.5 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.

Product properties

Product type	Contact insert
Number of positions	4
Coding	A - standard

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	250 V
Nominal current I_N	4 A

Interfaces

Signal type/category	Universal

Material specifications

Flammability rating according to UL 94	V0
Sealing material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA6T

Connector

Insertion/withdrawal cycles	> 100

Header 1

Head design	Plug
Head cable outlet	straight
Coding	A-coded

Cable / line

Cable structure

Signal type/category	Universal

Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP67 (correctly plugged in and locked)
Degree of protection	IP67 (correctly plugged in and locked)
Degree of protection	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)

Standards and regulations

M12

Standards/specifications	IEC 61076-2-101

Mounting

Mounting type	PCB mounting

Packaging specifications

Type of packaging	Tray

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Drawings

Schematic diagram
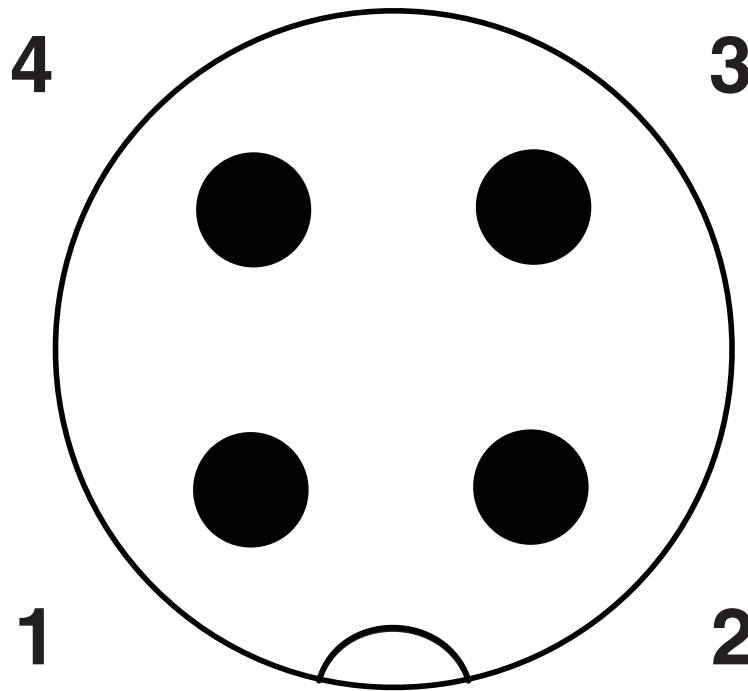
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Dimensional drawing

18,8 **2,5** **1,5** **Ø1** **Ø9,3**
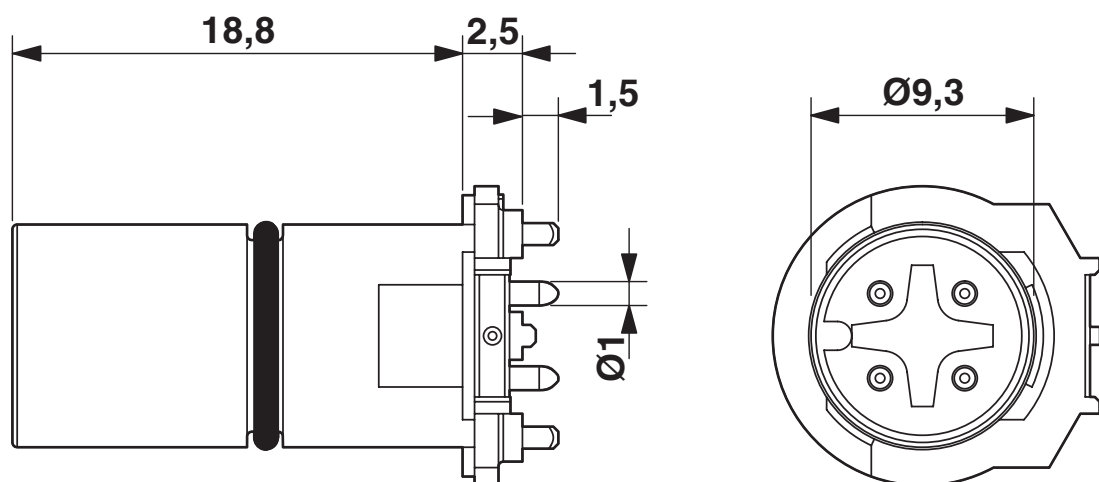
M12 male connector contact carrier

Drilling plan/solder pad geometry

Ø5

Ø1,2

45°

5

4,5

Ø1,4

8,5
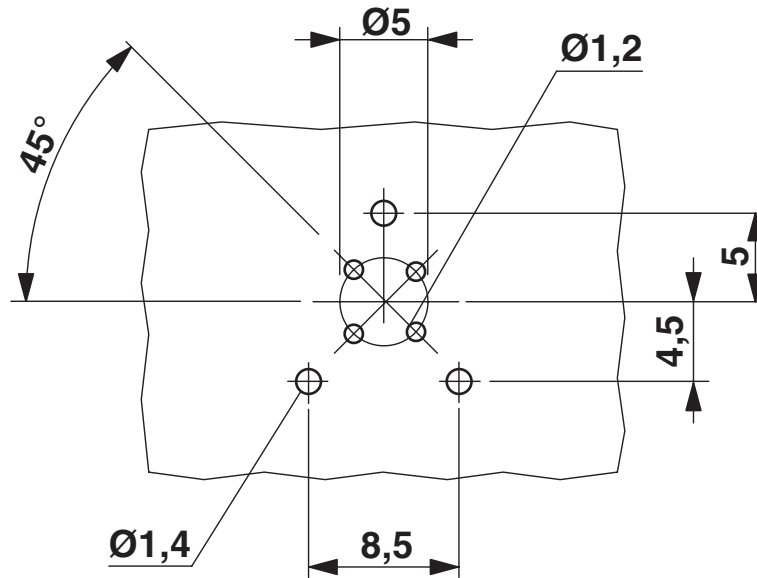
Drilling diagram

Dimensional drawing
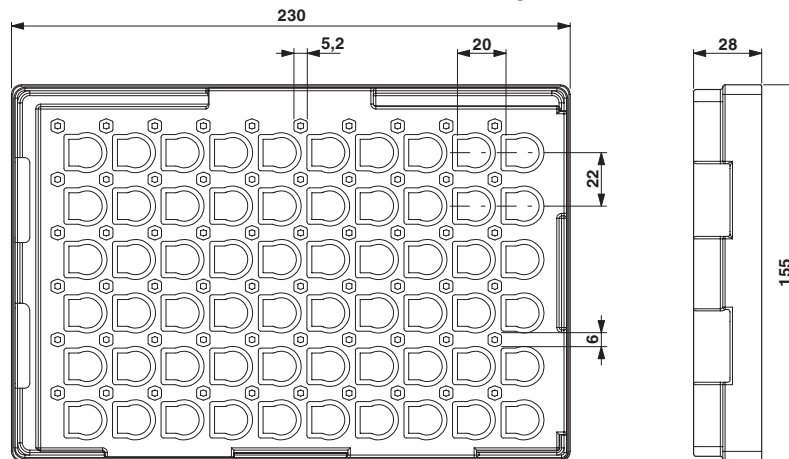
230

5,2

20

28

22

155

6

THR tray packaging

Approvals

cUL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	4 A	- 22	-

UL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	4 A	- 22	-

EAC
Approval ID: B.01687

cULus Recognized

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	

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"

Accessories

Housing screw connection

Housing screw connection - SACC-M12-SCO PLUG - 1551493

https://www.phoenixcontact.com/us/products/1551493

M12 SPEEDCON housing screw connection for M12 male inserts, with O-ring, for all SPEEDCON-capable THR and wave soldering contact carriers

Housing screw connection

Housing screw connection - SACC-DSIV-M12-PLUG - 1416145

https://www.phoenixcontact.com/us/products/1416145

Housing screw connection with M12 standard thread, with O-ring, for the two-piece straight M12 THR contact carrier and for the two-piece angled M12 contact carrier

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Housing screw connection

Housing screw connection - SACC-M12-SCO PLUG L90 - 1436709

https://www.phoenixcontact.com/us/products/1436709

M12-SPEEDCON housing screw connection for M12 male inserts, with flat gasket, for all Speedcon-compatible THR and wave soldering contact carriers

Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-6-THR - 1413997

https://www.phoenixcontact.com/us/products/1413997

Housing screw connection, Plug, M12, Rear mounting, M15 x 1

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Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-7-THR - 1413996

https://www.phoenixcontact.com/us/products/1413996

Housing screw connection, Plug, M12, Rear mounting, M15 x 1

Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-6-THR SCO - 1413999

https://www.phoenixcontact.com/us/products/1413999

M12 SPEEDCON housing screw connection for M12 male inserts, with O-ring, for all SPEEDCON-capable THR and wave soldering contact carriers

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Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-7-THR SCO - 1413998

https://www.phoenixcontact.com/us/products/1413998

Housing screw connection, Plug, M12-SPEEDCON, Rear mounting, M15 x 1

Housing screw connection

Housing screw connection - SACC-M12 PLUG PRESS - 1437892

https://www.phoenixcontact.com/us/products/1437892

M12 pin, housing screw connection, press-in version, for all Speedcon-compatible THR and wave soldering contact carriers

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Housing screw connection

Housing screw connection - SACC-DSIV-M12-PLUG-9 THR - 1417984

https://www.phoenixcontact.com/us/products/1417984

M12 pin, front mounting THR with M14 screw fastening

Housing screw connection

Housing screw connection - SACC-BP-M-M12-THR PP - 1027661

https://www.phoenixcontact.com/us/products/1027661

Housing screw connection, Plug, M12-Push-Pull, Rear mounting, M15 x 1, THR- und Wellenlötkontakte

Flush-type connector - SACC-CI-M12MS-4CON-L180 THR

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https://www.phoenixcontact.com/us/products/1437164

Housing screw connection

Housing screw connection - SACC-FP-M-M12-THR PP - 1027679

https://www.phoenixcontact.com/us/products/1027679

Housing screw connection, Plug, M12-Push-Pull, Front mounting, THR- und Wellenlötkontakte

Sealing cap

Sealing cap - PROT-M12 FS - 1560251

https://www.phoenixcontact.com/us/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/us/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

Sample set

Sample set - SACC-CIM12MS4PL180THRSHSAMPLE - 1413549

https://www.phoenixcontact.com/us/products/1413549

Sensor/actuator flush-type connector, connector, 4-pos., shielded, A-coded, with straight THR solder connection, only contact insert

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com