

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



1437164

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

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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	ABQCB E
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.
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### 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	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	250 V
Nominal current $I_N$	4 A

### Interfaces

Signal type/category	Universal
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### 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
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### Header 1

Head design	Plug
Head cable outlet	straight
Coding	A-coded

### Cable / line

Cable structure
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Signal type/category	Universal
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## 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
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## Mounting

Mounting type	PCB mounting
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## Packaging specifications

Type of packaging	Tray
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# Flush-type connector - SACC-CI-M12MS-4CON-L180 THR

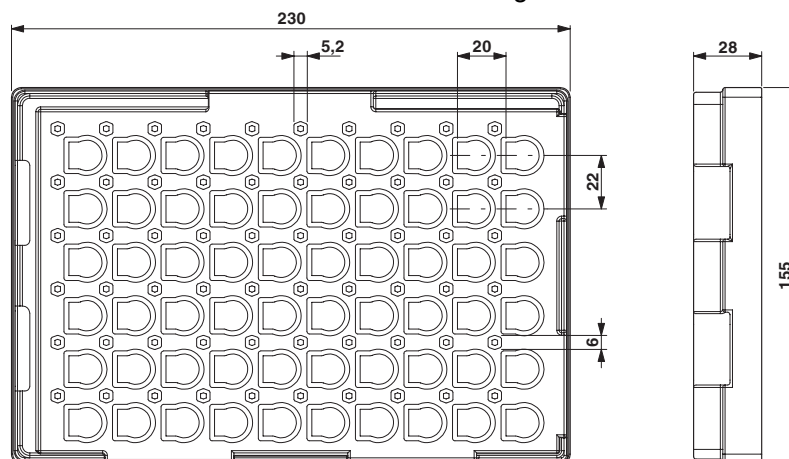


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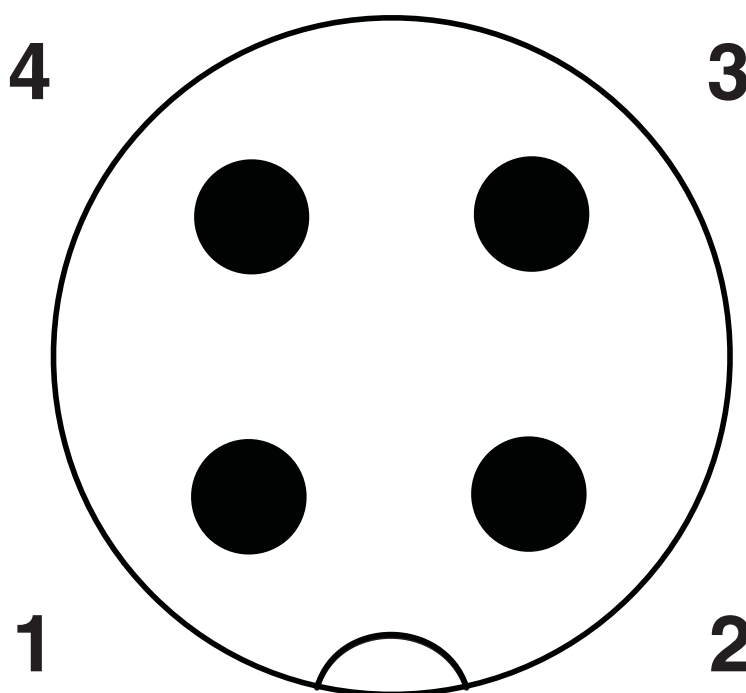
## Drawings

Dimensional drawing



THR tray packaging

Schematic diagram



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

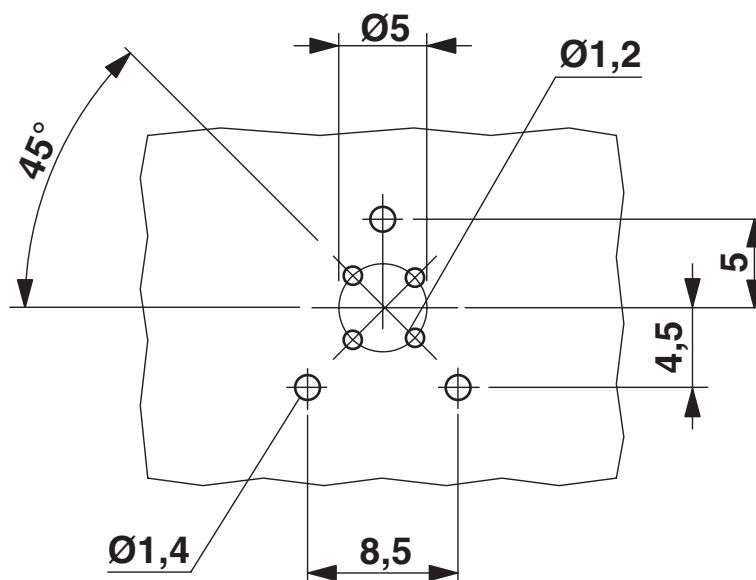
# Flush-type connector - SACC-CI-M12MS-4CON-L180 THR



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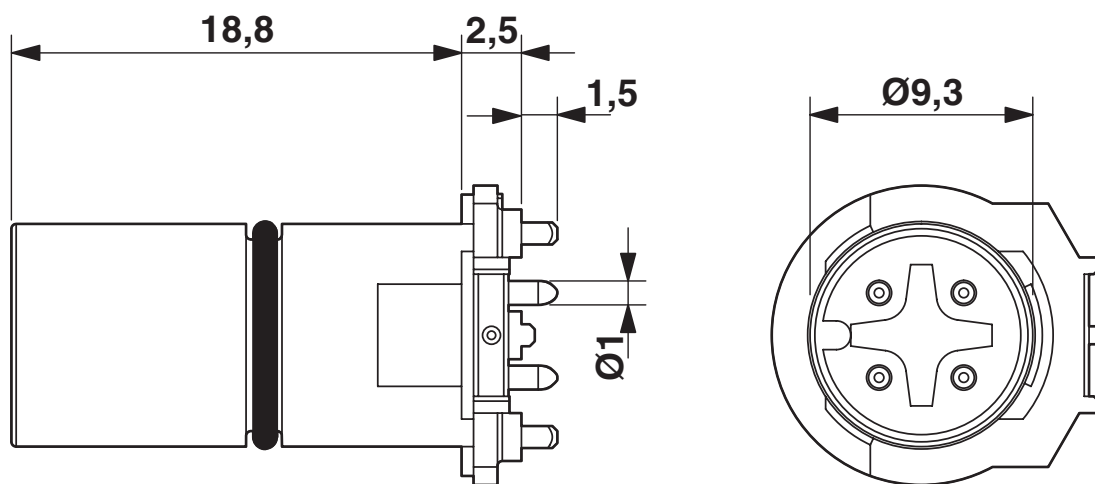
<https://www.phoenixcontact.com/us/products/1437164>

Drilling plan/solder pad geometry



Drilling diagram

Dimensional drawing



M12 male connector contact carrier

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



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## Approvals

 <b>cUL Recognized</b> Approval ID: FILE E 118976				
	Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
	250 V	4 A	- 22	-

 <b>UL Recognized</b> Approval ID: FILE E 118976				
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	250 V	4 A	- 22	-

 <b>EAC</b> Approval ID: B.01687				
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<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-10.0.1	27440102
ECLASS-9.0	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

### 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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### 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

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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

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## 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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## 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

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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

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## 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

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## 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

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## 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

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## 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

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## 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

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