

Flush-type connector - SACC-CI-M12FS-8CON-L180-THR SH



1551422

<https://www.phoenixcontact.com/us/products/1551422>

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Sensor/actuator flush-type socket, 8-pos., 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

Commercial Data

Item number	1551422
Packing unit	1 pc
Minimum order quantity	60 pc
Note	Made to Order (non-returnable)
Sales Key	A11
Product Key	ABQCBF
Catalog Page	Page 257 (C-2-2013)
GTIN	4046356153706
Weight per Piece (including packing)	5.301 g
Weight per Piece (excluding packing)	4.53 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	8
Coding	A - standard
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V
Nominal current I_N	2 A

LED signaling

Status display	No
Status display present	No

Material specifications

Flammability rating according to UL 94	V0
Sealing material	FKM / EPDM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PPA

Connector

Insertion/withdrawal cycles	> 100
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Connection 1

Head design	Socket
Head cable outlet	straight
Coding	A-coded

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Cable / line

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

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

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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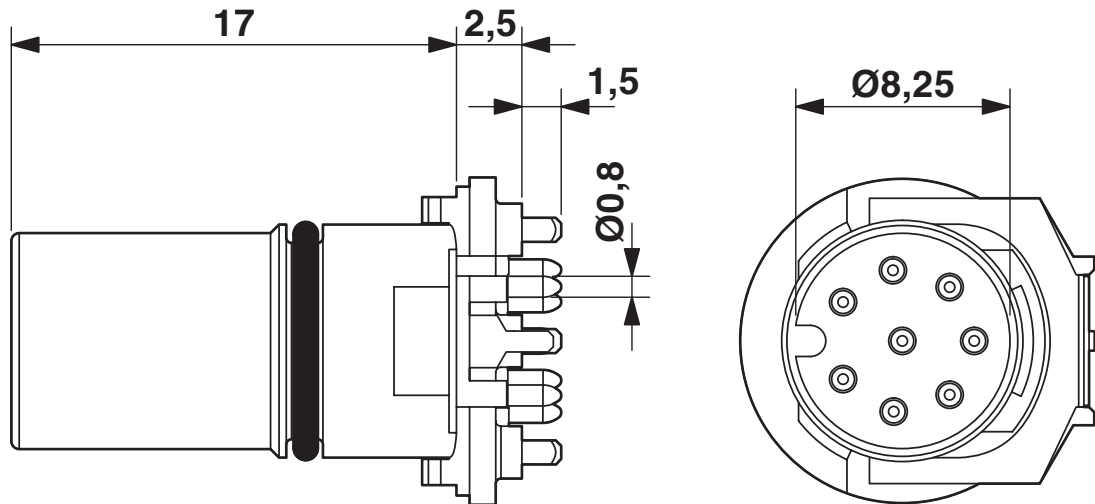


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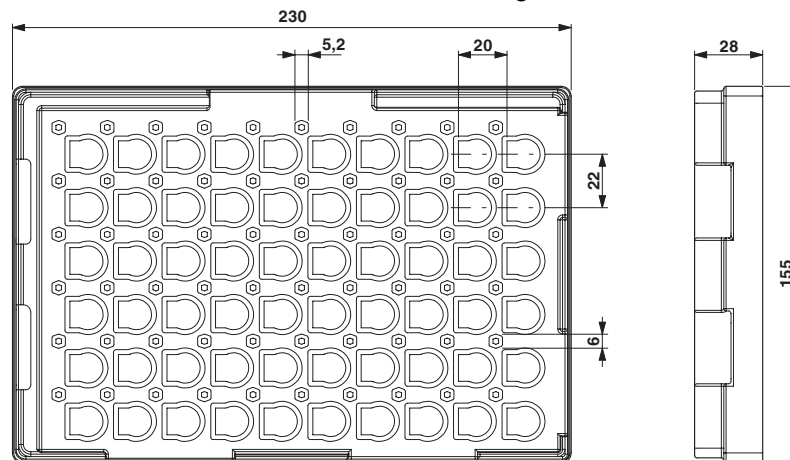
Drawings

Dimensional drawing



M12 female connector contact carrier

Dimensional drawing



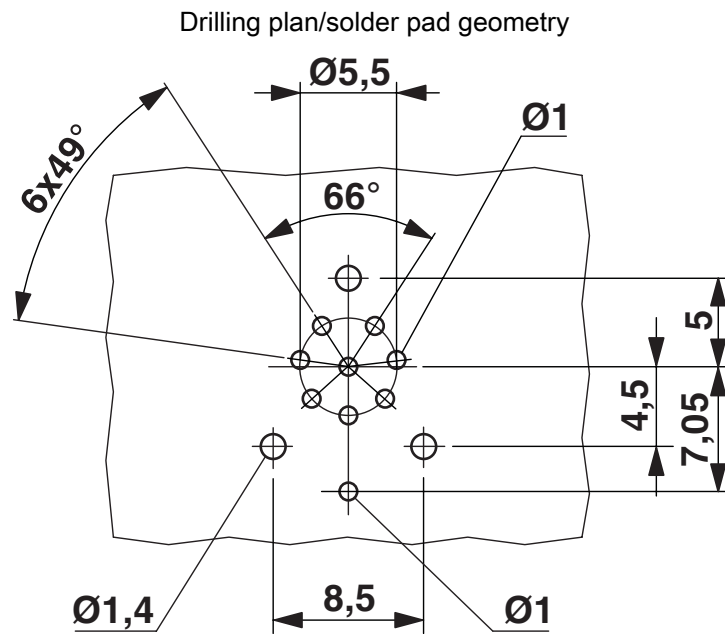
THR tray packaging

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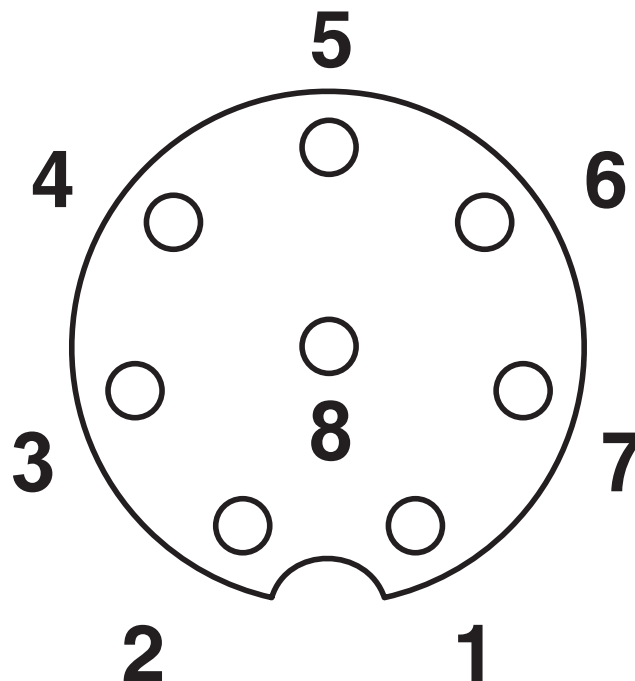
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Drilling diagram

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

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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	2 A	- 24	-



EAC

Approval ID: B.01687

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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

Screw plug

Screw plug - PROT-M12 - 1680539

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

Sample set

Sample set - SACC-CIM12FS8PL180THRSHSAMPLE - 1413561

<https://www.phoenixcontact.com/us/products/1413561>



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Housing screw connection

Housing screw connection - SACC-M12-SCO NUT - 1552243

<https://www.phoenixcontact.com/us/products/1552243>



Housing screw connection, Socket, M12-SPEEDCON, Front mounting, M12 x 1

Housing screw connection

Housing screw connection - SACC-DSIV-M12-NUT - 1416144

<https://www.phoenixcontact.com/us/products/1416144>



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 NUT L 90 - 1432460

<https://www.phoenixcontact.com/us/products/1432460>

Housing screw connection, M12 x 1



Housing screw connection

Housing screw connection - SACC-BP-F-M12/M15-6-THR - 1414004

<https://www.phoenixcontact.com/us/products/1414004>

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



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Housing screw connection

Housing screw connection - SACC-BP-F-M12/M15-7-THR - 1414003

<https://www.phoenixcontact.com/us/products/1414003>



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

Housing screw connection

Housing screw connection - SACC-BP-F-M12/M15-6-THR SCO - 1414020

<https://www.phoenixcontact.com/us/products/1414020>



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

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Housing screw connection

Housing screw connection - SACC-BP-F-M12/M15-7-THR SCO - 1414005

<https://www.phoenixcontact.com/us/products/1414005>



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

Housing screw connection

Housing screw connection - SACC-BP-F-M12/THR-1,0/1,8-9TIP - 1419630

<https://www.phoenixcontact.com/us/products/1419630>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.0 mm ... 1.8 mm thick front plates.

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Housing screw connection

Housing screw connection - SACC-BP-F-M12/THR-1,7/2,5-9TIP - 1419631

<https://www.phoenixcontact.com/us/products/1419631>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.7 mm ... 2.5 mm thick front plates.

Housing screw connection

Housing screw connection - SACC-BP-F-M12/THR-2,4/3,2-9TIP - 1419633

<https://www.phoenixcontact.com/us/products/1419633>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 2.4 mm ... 3.2 mm thick front plates.

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Housing screw connection

Housing screw connection - SACC-BP-F-M12/THR-3,1/3,9-9TIP - 1419634

<https://www.phoenixcontact.com/us/products/1419634>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 3.1 mm ... 3.9 mm thick front plates.

Housing screw connection

Housing screw connection - SACC-M12 NUT PRESS - 1437889

<https://www.phoenixcontact.com/us/products/1437889>



Housing screw connection, Socket, M12, M12 x 1

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Housing screw connection

Housing screw connection - SACC-DSIV-M12-NUT-9 THR - 1417989

<https://www.phoenixcontact.com/us/products/1417989>



M12 female connector, front mounting THR with M14 screw fastening

Housing screw connection

Housing screw connection - SACC-BP-F-M12-THR PP - 1027662

<https://www.phoenixcontact.com/us/products/1027662>



Housing screw connection, Socket, M12-Push-Pull, Rear mounting, M16, THR- und Wellenlötkontakte

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Housing screw connection

Housing screw connection - SACC-FP-F-M12-THR PP - 1027678

<https://www.phoenixcontact.com/us/products/1027678>



Housing screw connection, Socket, M12-Push-Pull, Front mounting, M14 x 1, THR- und Wellenlötkontakte

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