PHŒNIX CONTACT

Bus system flat-type plug - SACC-CI-M12FSD-4CON-L180-THR - 1551451

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Bus system flat-type plug, Ethernet/PROFINET CAT5 (100 Mbps), 4-position, Socket, straight, D-coded, PCB mounting, THR solder connection

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

☑ Compatible with connectors with screw or push-in connection

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	60 pc
GTIN	4 046356 153676
GTIN	4046356153676
Weight per Piece (excluding packing)	4.000 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)

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Technical data

Ambient conditions

Degree of protection	IP67 (correctly plugged in and locked)

General

Note	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.
Rated current at 40°C	4 A
Rated voltage	250 V
Rated surge voltage	2.5 kV
Number of positions	4
Insulation resistance	$\geq$ 100 MΩ
Coding	D - data
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	Ethernet/PROFINET CAT5, 100 Mbps
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	THR solder connection
Insertion/withdrawal cycles	> 100
Torque	3 Nm ... 4 Nm (Installation-side)
Mounting type	PCB mounting
Type of packaging	Tray
Transmission characteristics (category)	CAT5

Material

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

Cable

Standards/specifications	M12 connector IEC 61076-2-101
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (cable, flexible installation)

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101

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Technical data

Standards and Regulations

Flammability rating according to UL 94	V0

Environmental Product Compliance

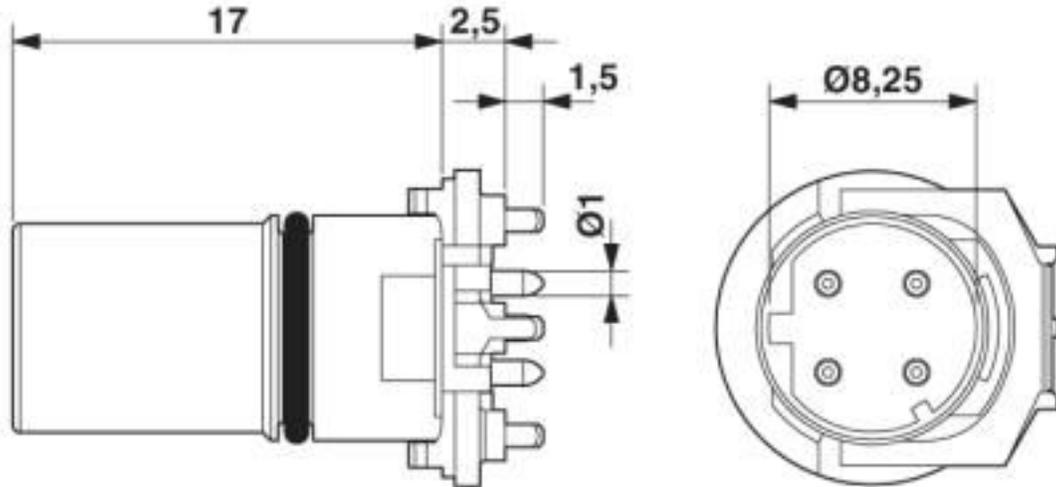| REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Drilling diagram

Drilling diagram
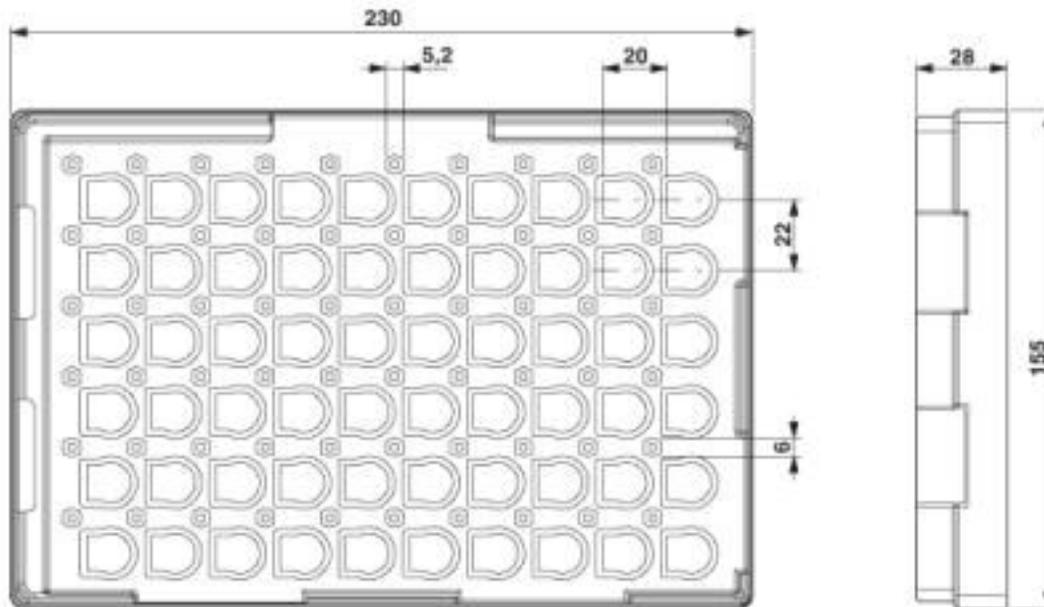
PHŒNIX CONTACT
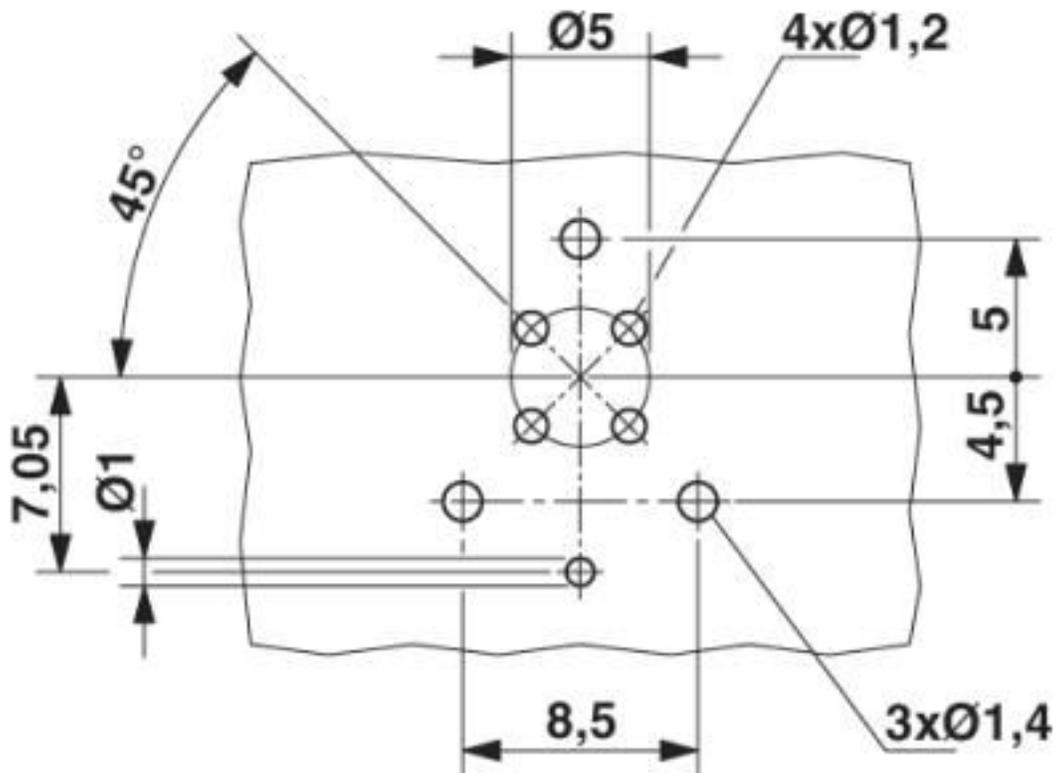
Bus system flat-type plug - SACC-CI-M12FSD-4CON-L180-THR - 1551451

Dimensional drawing

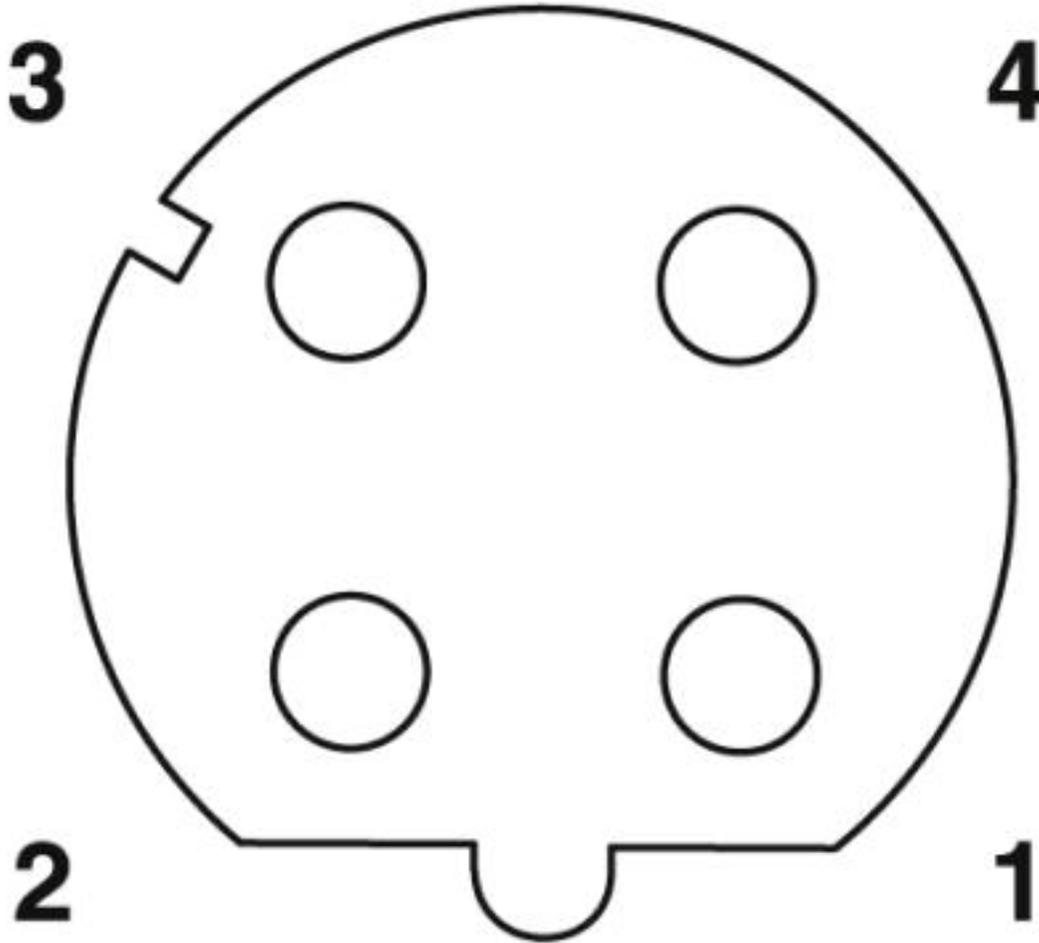M12 female connector contact carrier

Dimensional drawing

THR tray packaging

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Schematic diagram

Pin assignment M12 socket, 4-pos., D-coded, female side

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27279200
eCl@ss 7.0	27440103
eCl@ss 8.0	27440103

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Classifications

eCl@ss

eCl@ss 9.0	27440102

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC000830
ETIM 5.0	EC002061
ETIM 6.0	EC002061

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976
Nominal voltage UN	250 V		
Nominal current IN	4 A		
mm²/AWG/kcmil	22		

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EAC	EAC	B.01687

cULus Recognized		

Accessories

Accessories

Contact insert

Sample set - SACC-CIM12FSD4PL180THRSAMPLE - 1413557

Bus system flush-type socket, Ethernet, 4-pos., D-coded, with straight THR solder connection, only contact insert

Panel mounting base

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

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

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Accessories

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

Housing screw connection - SACC-M12-SCO NUT L 90 - 1432460

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

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

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

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

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

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

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

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Accessories

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

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

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

Housing screw connection - SACC-BP-F-M12/THR-1,7/2,5-9TIP - 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 - SACC-BP-F-M12/THR-2,4/3,2-9TIP - 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.

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

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Accessories

Housing screw connection - SACC-M12 NUT PRESS - 1437889

Housing screw connection for two-piece M12 connectors for the reflow soldering process.

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

M12 female connector, front mounting THR with M14 screw fastening

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

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

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

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

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Plug for cable screw gland

Screw plug - PROT-M12 - 1680539

An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

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Accessories

Screw plug - PROT-M12 SH - 1503302

An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

Screw plug - PROT-M12 FB - 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