

## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

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Sensor/actuator flush-type connector, socket, 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

RoHS

### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 60 pc                                                                                                   |
| Minimum order quantity | 60 pc                                                                                                   |
| GTIN                   | <br>4 046356 476706 |
| GTIN                   | 4046356476706                                                                                           |

### Technical data

#### Ambient conditions

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

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## Technical data

### General

|                             |                                   |
|-----------------------------|-----------------------------------|
| Rated surge voltage         | 2.5 kV                            |
| Number of positions         | 4                                 |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$        |
| Coding                      | A - standard                      |
| Standards/regulations       | M12 connector IEC 61076-2-101     |
| 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                              |

### Material

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

### Cable

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Standards/specifications        | M12 connector IEC 61076-2-101                   |
| 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 |
| Flammability rating according to UL 94 | V0                            |

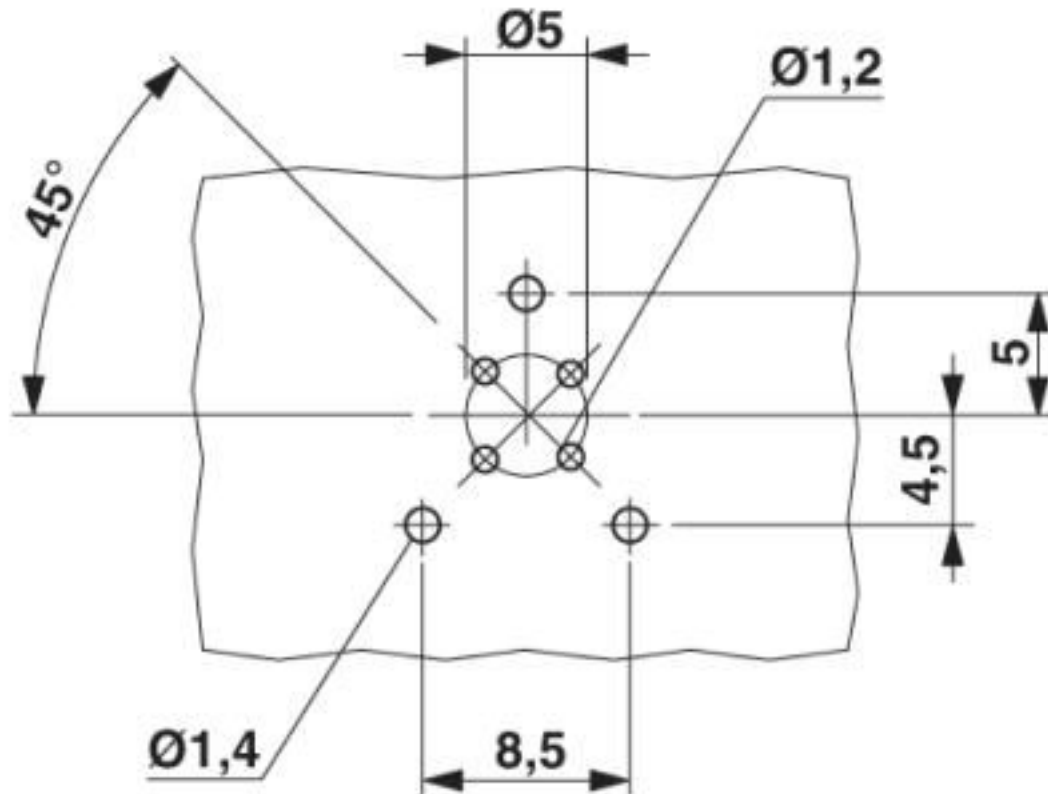
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| 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

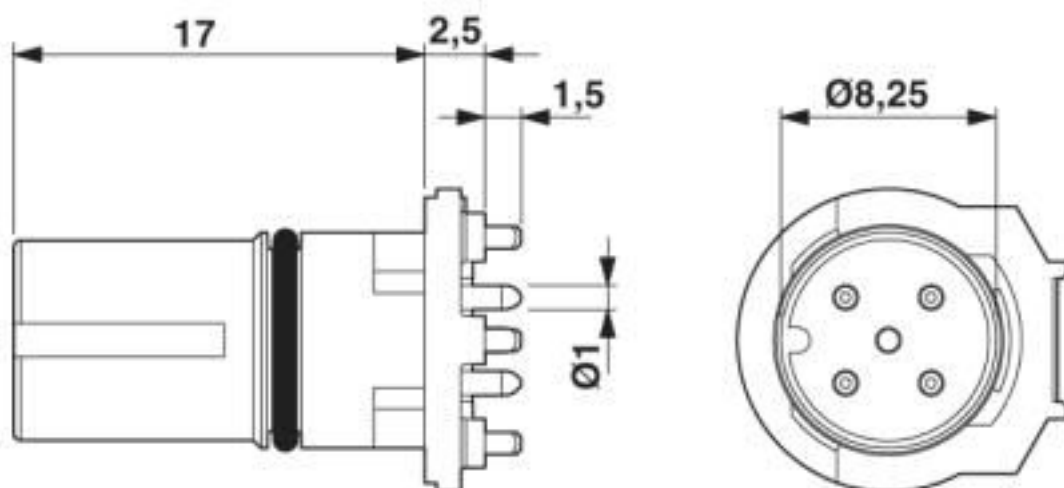
## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

Drilling diagram



Drilling diagram

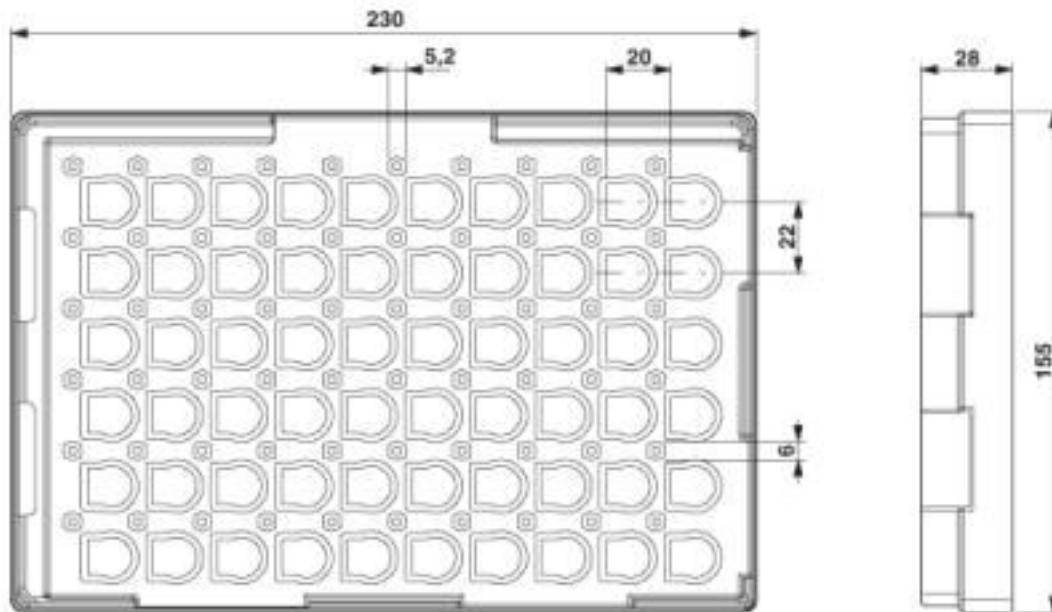
Dimensional drawing



M12 female connector contact carrier

## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

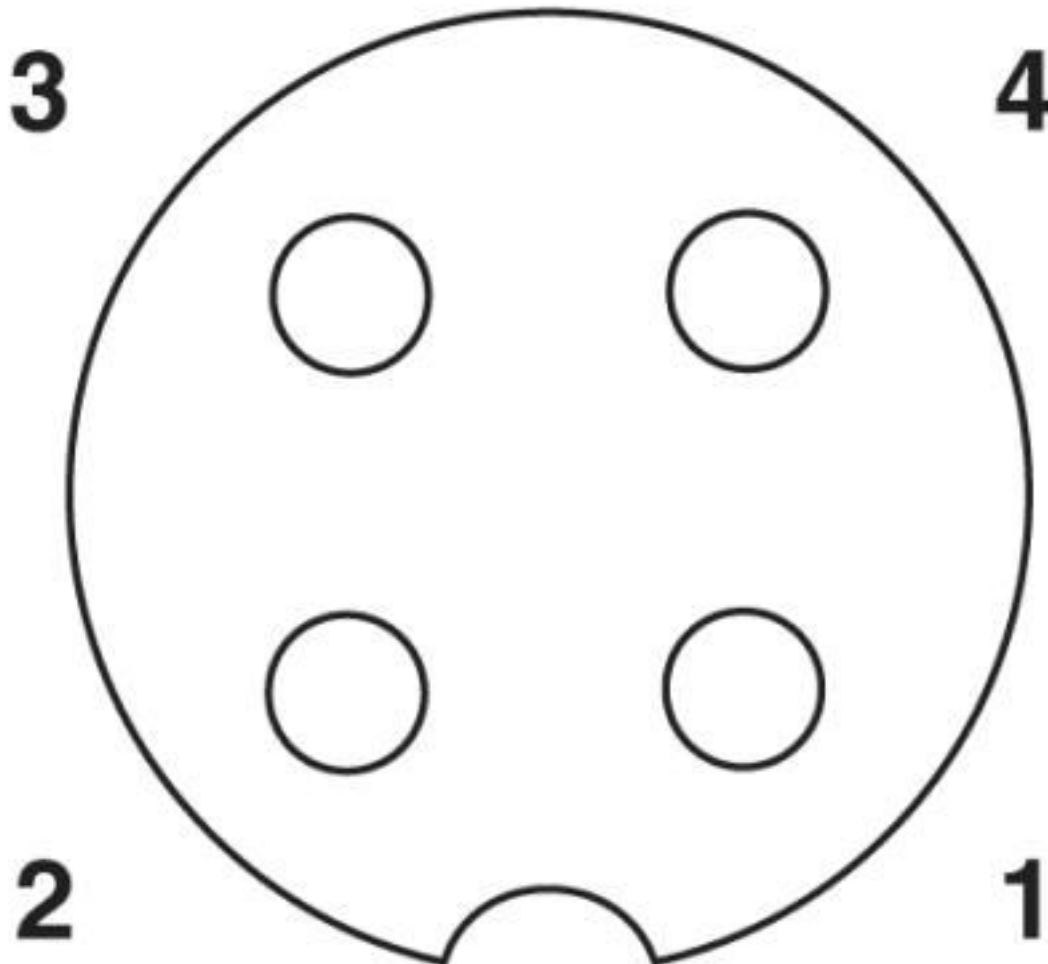
Dimensional drawing



THR tray packaging

## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

Schematic diagram



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

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27440103 |
| eCl@ss 8.0    | 27440103 |
| eCl@ss 9.0    | 27440102 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| 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      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN | 250 V                                                                               |                                                                                                                                                       |               |
| Nominal current IN | 4 A                                                                                 |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 22                                                                                  |                                                                                                                                                       |               |

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN | 250 V                                                                               |                                                                                                                                                       |               |

## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

### Approvals

|                                |     |
|--------------------------------|-----|
|                                |     |
| Nominal current I <sub>N</sub> | 4 A |
| mm <sup>2</sup> /AWG/kcmil     | 22  |

|     |                                                                                   |         |
|-----|-----------------------------------------------------------------------------------|---------|
| EAC |  | B.01687 |
|-----|-----------------------------------------------------------------------------------|---------|

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-----------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Contact insert

Sample set - SACC-CIM12FS4PL180SHTHRSAMPLE - 1413556



Sensor/actuator flush-type connector, socket, 4-pos., shielded, A-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

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

## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

### Accessories

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

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



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

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



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

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



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

## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

### Accessories

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.

Housing screw connection - SACC-M12 NUT PRESS - 1437889



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

## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

### Accessories

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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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

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## Flush-type connector - SACC-CI-M12FS-4CON-L180 THR - 1439942

### Accessories

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

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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