

# Flush-type connector - SACC-CI-M12FS-12CON-L180 THR - 1441970

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Sensor/actuator flush-type socket, 12-pos., with straight THR solder connection

## Why buy this product

- 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

## Key Commercial Data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Packing unit                         | 60 STK                         |
| Minimum order quantity               | 60 STK                         |
| GTIN                                 |                                |
| GTIN                                 | 4046356533089                  |
| Weight per Piece (excluding packing) | 5.380 g                        |
| Custom tariff number                 | 85366990                       |
| Country of origin                    | Germany                        |
| Note                                 | Made to Order (non-returnable) |

## 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 |
|------|--|

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## Technical data

### General

|                             |   |
|-----------------------------|---|
|                             | 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       | 1.5 A   |
| Rated voltage               | 30 V  |
| Rated surge voltage         | 0.8 kV  |
| Number of positions         | 12  |
| Insulation resistance       | ≥ 100 MΩ  |
| Coding                      | A - standard  |
| Standards/regulations       | M12 connector IEC 61076-2-101   |
| Status display              | No  |
| Overvoltage category        | III   |
| 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  |
| Delivery state              | with assembly pad   |

### 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

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

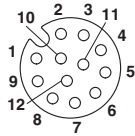
### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

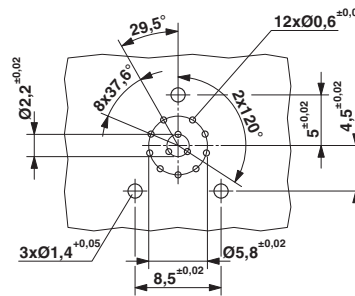
# Flush-type connector - SACC-CI-M12FS-12CON-L180 THR - 1441970

Schematic diagram



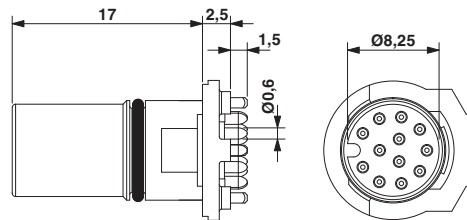
Pin assignment M12, 12-pos., female side view

Drilling diagram



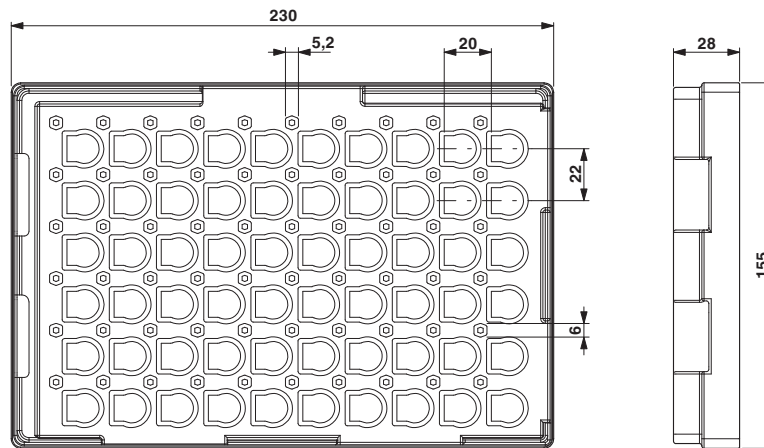
Drilling diagram

Dimensional drawing



M12 flush-type connector

Dimensional drawing



THR tray packaging

## Classifications

eCI@ss

|            |          |
|------------|----------|
| eCI@ss 4.0 | 27060306 |
| eCI@ss 4.1 | 27060306 |
| eCI@ss 5.0 | 27061801 |
| eCI@ss 5.1 | 27260701 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 6.0 | 27279220 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001297 |
| 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 |

## Approvals


### Approvals

Approvals

UL Recognized / EAC

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 |
| mm <sup>2</sup> /AWG/kcmil     | 26-20   |   |               |
| Nominal current I <sub>N</sub> | 1.5 A   |   |               |
| Nominal voltage U <sub>N</sub> | 30 V  |   |               |

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## Approvals

EAC



B.01742

## Accessories

### Accessories

#### Contact insert

Sample set - SACC-CIM12FS12PL180THRSHSAMPLE - 1413562



Sensor/actuator flush-type socket, 12-pos. with shroud, A-coded, with straight THR solder connection, contact insert only

## 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

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

## Flush-type connector - SACC-CI-M12FS-12CON-L180 THR - 1441970

### Accessories

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



Housing screw connection, SocketLink:M12, Rear mounting, M15 x 1

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



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

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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.

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## Flush-type connector - SACC-CI-M12FS-12CON-L180 THR - 1441970

### Accessories

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.

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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.

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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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Housing screw connection - SACC-M12 NUT PRESS - 1437889



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

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



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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Protective cap

## Flush-type connector - SACC-CI-M12FS-12CON-L180 THR - 1441970

### Accessories

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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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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