# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

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Sensor/actuator flush-type socket, 12-pos. without shroud, A-coded, with angled solder connection, contact insert only

## Your advantages

- Reduced mounting costs thanks to two-piece device connector
- 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 | 20 pc |
| GTIN | 4 046356 692892 |
| GTIN | 4046356692892 |

## Technical data

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| | -40 °C ... 85 °C (without mechanical actuation) |
| Degree of protection | IP67 |

### 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 | 1.5 A |
| Rated voltage | 30 V |
| Rated surge voltage | 0.8 kV |
| Number of positions | 12 |

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## Technical data

### General

| | |
|---|---|
| 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 | Solder pins |
| Insertion/withdrawal cycles | > 100 |
| Torque | 3 Nm ... 4 Nm (Installation-side) |
| Mounting type | PCB mounting |

### 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 |

### Standards and Regulations

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

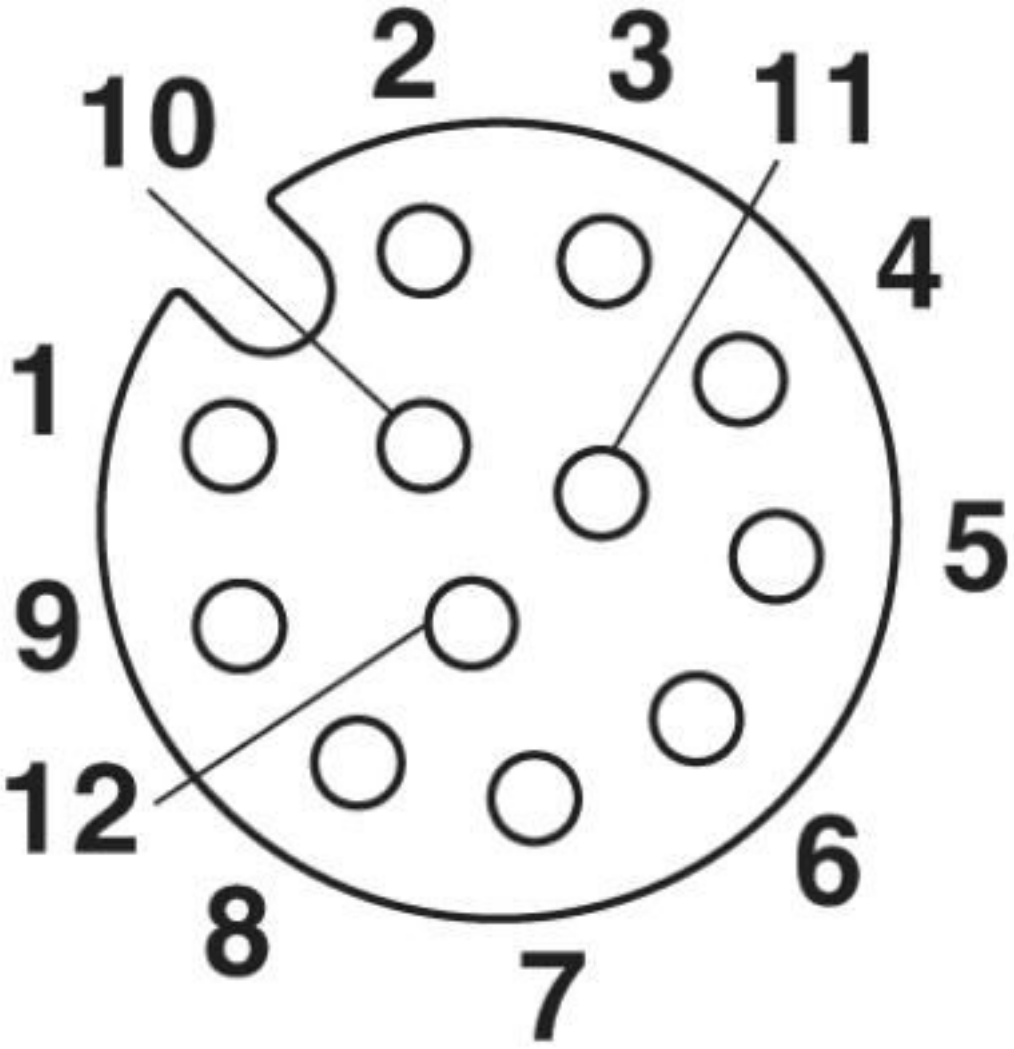
### Environmental Product Compliance

| | |
|---|---|
| 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-12CON-L90 - 1424195

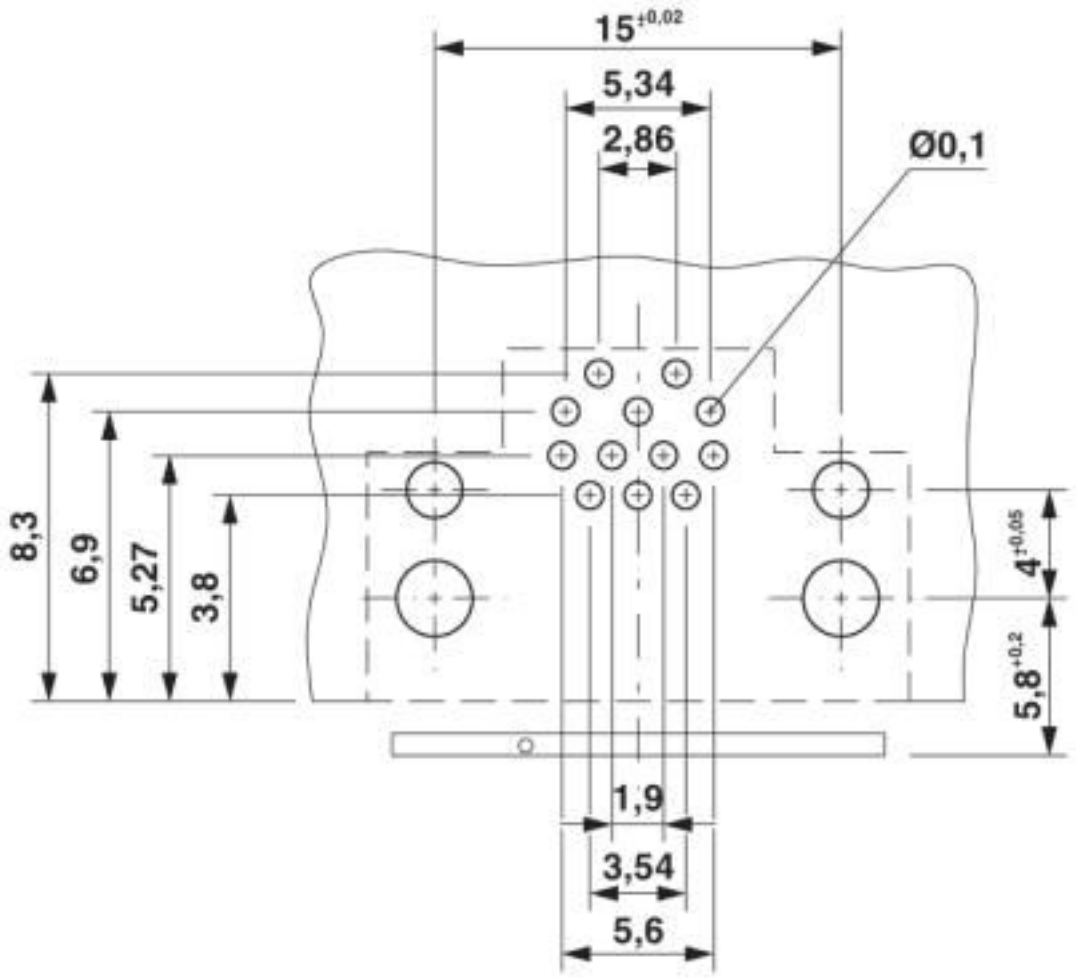
Schematic diagram




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

# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

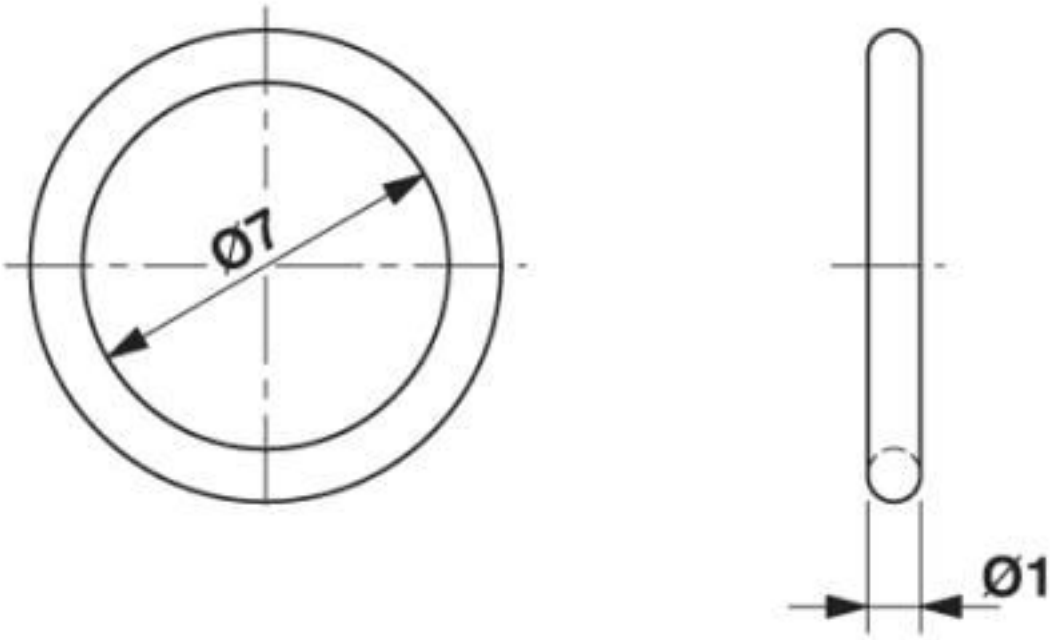
Drilling diagram




Drilling diagram only valid in connection with the SACC-M12-SCO NUT L90 housing (order no. 1432460)

# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

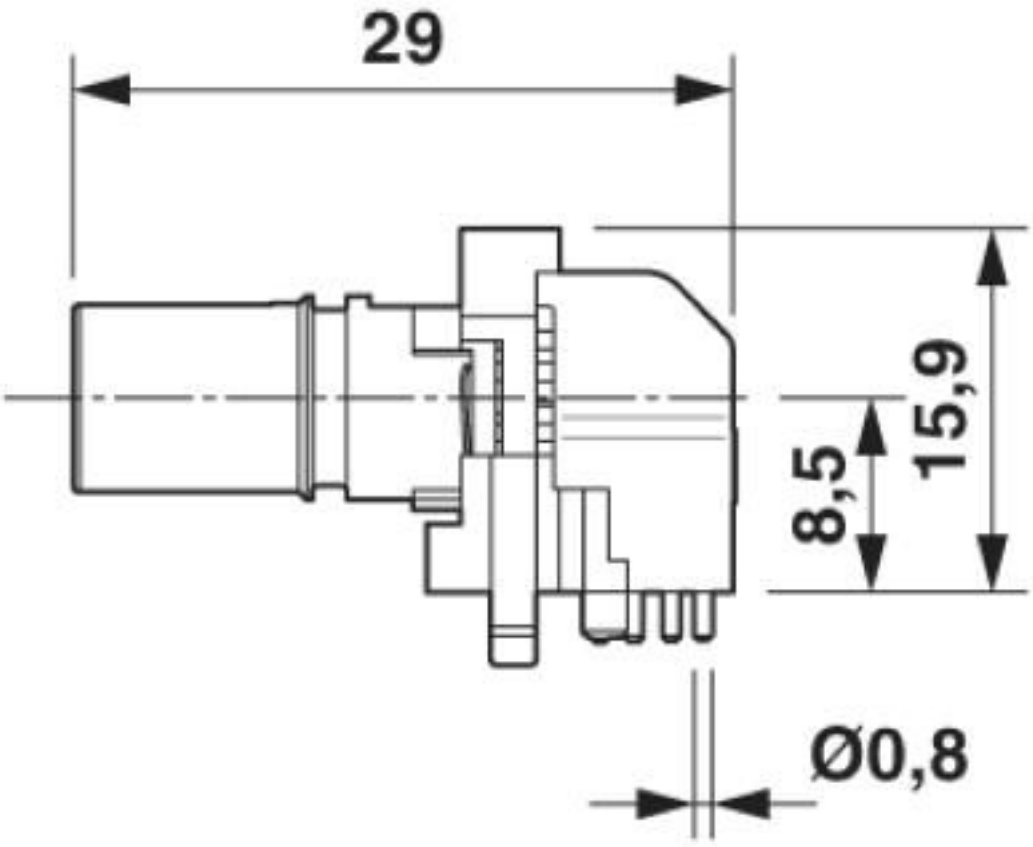
Dimensional drawing




Optionally with O-ring (green) for tight seal when plugged in.
- the axial mating force of 80 N per connector may not be exceeded when using with assembled O-ring!
- Avoid radial forces!

# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

Dimensional drawing




M12 flush-type socket, angled

## 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 |
| eCl@ss 9.0 | 27440102 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002061 |

# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

## Classifications

### ETIM

| | |
|---|---|
| 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 | 30 V |
| Nominal current IN | 1.5 A |
| mm²/AWG/kcmil | 26 |

| | | | |
|---|---|---|---|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 118976 |

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| Nominal voltage UN | 30 V |
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# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

## Approvals

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

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

## Accessories

### Accessories

### 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

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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## Accessories

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

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.

# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

## Accessories

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

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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# Flush-type connector - SACC-CI-M12FS-12CON-L90 - 1424195

## Accessories

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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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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