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## Flush-type connector - SACC-CI-M12FS-12CON-L90 SH - 1424199

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

### Why buy this product

- 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 STK  |
| Minimum order quantity | 20 STK  |
| GTIN                   | <br>4 046356 692939 |
| GTIN                   | 4046356692939   |

### 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   |

# Flush-type connector - SACC-CI-M12FS-12CON-L90 SH - 1424199

## Technical data

### General

|                             |                                   |
|-----------------------------|-----------------------------------|
| Number of positions         | 12                                |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$        |
| 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

|                                    |   |
|------------------------------------|---|
| Conductor cross section            | 0.14 mm <sup>2</sup>                            |
| Conductor structure signal line    | 7x 0.16 mm                                      |
| Core diameter including insulation | 1.1 mm $\pm 0.05$ mm                            |
| Thickness, insulation              | 0.21 mm   |
| Standards/specifications           | M12 connector IEC 61076-2-101                   |
| Insulation resistance              | $\geq 20 \text{ M}\Omega \cdot \text{km}$       |
| Conductor resistance               | $\leq 57.6 \text{ m}\Omega/\text{m}$            |
| Nominal voltage, cable             | 300 V   |
| Test voltage, cable                | 2000 V AC                                       |
| 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              |

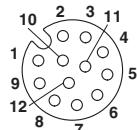
### Environmental Product Compliance

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

## Flush-type connector - SACC-CI-M12FS-12CON-L90 SH - 1424199

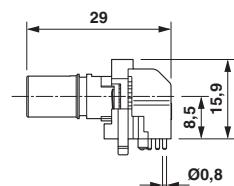
### Drawings

Schematic diagram



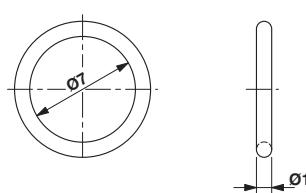
Pin assignment M12, 12-pos., female side view

Dimensional drawing



M12 flush-type socket, angled

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!

### Approvals

#### Approvals

##### Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized

##### Ex Approvals

#### Approval details

EAC



B.01742

UL Recognized



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

Nominal voltage UN

30 V

## Flush-type connector - SACC-CI-M12FS-12CON-L90 SH - 1424199

### Approvals

| Nominal current IN         | 1.5 A |
|----------------------------|-------|
| mm <sup>2</sup> /AWG/kcmil | 26    |

|                            |   |   |               |
|----------------------------|---|---|---------------|
| 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         | 30 V  |   |               |
| Nominal current IN         | 1.5 A   |   |               |
| mm <sup>2</sup> /AWG/kcmil | 26  |   |               |

|                  |   |   |
|------------------|---|---|
| cULus 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> |
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