

## Flush-type connector - SACC-CI-M12MS-12CON-L90 SH - 1424198

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Sensor/actuator flush-type plug, 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                                 | 4 046356 692922                |
| Weight per Piece (excluding packing) | 5.835 g                        |
| Weight per piece (including packing) | 5.835 g                        |
| 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                                            |

#### 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. |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Technical data

### General

|                             |                                   |
|-----------------------------|-----------------------------------|
| 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           | 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 mm²                                        |
| Conductor structure signal line    | 7x 0.16 mm                                      |
| Core diameter including insulation | 1.1 mm ±0.05 mm                                 |
| Thickness, insulation              | 0.21 mm                                         |
| Standards/specifications           | M12 connector IEC 61076-2-101                   |
| Insulation resistance              | ≥ 20 MΩ*km                                      |
| Conductor resistance               | ≤ 57.6 mΩ/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              |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

#### ETIM

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

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

### Approvals

#### Approvals

##### Approvals

EAC / EAC / UL Recognized / cUL Recognized / cULus Recognized

##### Ex Approvals

##### Approvals submitted

#### Approval details

|     |
|-----|
| EAC |
|-----|

|     |
|-----|
| EAC |
|-----|

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## Approvals

|                                |       |
|--------------------------------|-------|
| UL Recognized                  |       |
|                                |       |
| mm²/AWG/kcmil                  | 26-20 |
| Nominal current I <sub>N</sub> | 1.5 A |
| Nominal voltage U <sub>N</sub> | 30 V  |

|                                |       |
|--------------------------------|-------|
| cUL Recognized                 |       |
|                                |       |
| mm²/AWG/kcmil                  | 26-20 |
| Nominal current I <sub>N</sub> | 1.5 A |
| Nominal voltage U <sub>N</sub> | 30 V  |

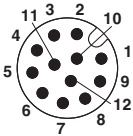
|                                                                                                    |  |
|----------------------------------------------------------------------------------------------------|--|
| cULus Recognized  |  |
|----------------------------------------------------------------------------------------------------|--|

## Drawings

Drilling  
diagram

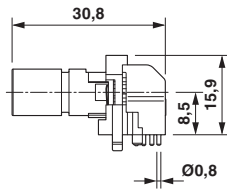
Schematic diagram

Drilling  
diagram  
only  
valid  
Pin assignment M12 male connector, 12-pos., male side view  
connection  
with  
the  
SACC-  
M12-  
SCO  
PLUG  
L90  
housing  
(order  
no.  
1436709)



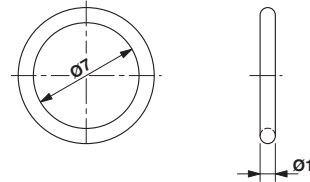
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Dimensional drawing



M12 flush-type male connector, 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!

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