

## Flush-type connector - SACC-CI-M12FSD-4CON-L90 SCO - 1432457

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Sensor/actuator flush-type connector, socket, 4-pos., D-coded, shielded, with angled solder connection, only contact insert



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 20 pc    |
| Weight per Piece (excluding packing) | 5.0 g    |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Germany  |

### 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 | 4 A                                                                                                                                                                                                                                                                                                                                                |
| Rated voltage         | 250 V                                                                                                                                                                                                                                                                                                                                              |
| Rated surge voltage   | 2.5 kV                                                                                                                                                                                                                                                                                                                                             |
| Number of positions   | 4                                                                                                                                                                                                                                                                                                                                                  |
| Insulation resistance | ≥ 100 MΩ                                                                                                                                                                                                                                                                                                                                           |
| Coding                | D - data                                                                                                                                                                                                                                                                                                                                           |

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## Technical data

### General

|                             |                               |
|-----------------------------|-------------------------------|
| Standards/regulations       | M12 connector IEC 61076-2-101 |
| Status display              | No                            |
| Overvoltage category        | II                            |
| Degree of pollution         | 3                             |
| Connection method           | Solder pins                   |
| Insertion/withdrawal cycles | > 100                         |
| Mounting type               | PCB mounting                  |

### Material

|                                        |            |
|----------------------------------------|------------|
| Flammability rating according to UL 94 | V0         |
| Contact material                       | CuZn       |
| Contact surface material               | Au         |
| Contact carrier material               | PA 66      |
| Sealing material                       | FKM / EPDM |

### Cable

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation)    |
|                                 | -25 °C ... 85 °C (cable, flexible installation) |

### Standards and Regulations

|                                        |                 |
|----------------------------------------|-----------------|
| Order No.                              | 1432457         |
| Product key                            | ABQCAD          |
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0              |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27279220 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27440103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002061 |
|----------|----------|

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002061 |
| 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

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

#### Ex Approvals

#### Approvals submitted

### Approval details

|                                                                                                   |       |
|---------------------------------------------------------------------------------------------------|-------|
| UL Recognized  |       |
| mm²/AWG/kcmil                                                                                     | 26-20 |
| Nominal current I <sub>N</sub>                                                                    | 4 A   |
| Nominal voltage U <sub>N</sub>                                                                    | 250 V |

|                                                                                                    |       |
|----------------------------------------------------------------------------------------------------|-------|
| cUL Recognized  |       |
| mm²/AWG/kcmil                                                                                      | 26-20 |

## Flush-type connector - SACC-CI-M12FSD-4CON-L90 SCO - 1432457

### Approvals

|                                |       |
|--------------------------------|-------|
|                                |       |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 250 V |

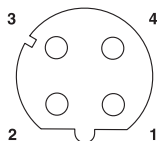
|     |
|-----|
| EAC |
|-----|

|                                |       |
|--------------------------------|-------|
| UL Recognized                  |       |
| mm <sup>2</sup> /AWG/kcmil     | 26-20 |
| Nominal current I <sub>N</sub> | 4 A   |
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|                                                                                                    |
|----------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|----------------------------------------------------------------------------------------------------|

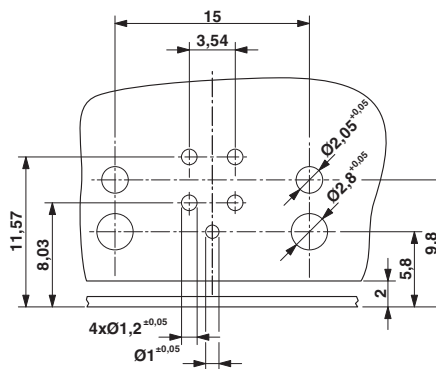
### Drawings

Schematic diagram



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

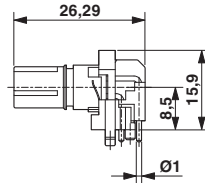
Drilling diagram



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

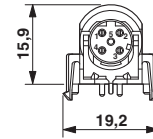
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Dimensional drawing



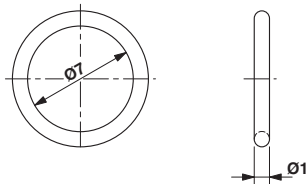
M12 flush-type connector, socket, contact carrier, side view

Dimensional drawing



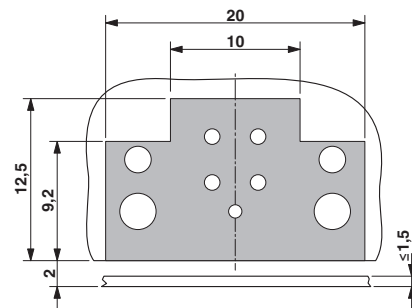
M12 flush-type connector, socket, contact carrier, front view

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!

Dimensional drawing



Locked area on the PCB