

## Flush-type connector - SACC-SQ-M12MSD-4CON-20-L180 - 1456394

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Sensor/actuator flush-type plug, 4-pos. socket, M12, D-coded, front/square flange mounting, wave soldering

### Why buy this product

- M12 PCB connector that can be soldered directly with integrated torsion protection and shield connection
- Easy PCB assembly: one-piece connectors for wave soldering
- Standard pin assignments for signal and power transmission with a uniform design-in design
- SPEEDCON fast locking system reduces cabling times



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 10 STK                                                                                                  |
| GTIN                                 | <br>4 046356 617000 |
| Weight per Piece (excluding packing) | 10.67 g                                                                                                 |
| Weight per piece (including packing) | 10.67 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            | IP20                                            |

#### 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                                                                                                                                                                                                                                                                                                                                                |

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## Technical data

### General

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Rated voltage               | 250 V                                          |
| Rated surge voltage         | 2.5 kV                                         |
| Number of positions         | 4                                              |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$                     |
| Coding                      | D - data                                       |
| Standards/regulations       | M12 connector IEC 61076-2-101                  |
| Signal type/category        | Universal                                      |
| Status display              | No                                             |
| Overvoltage category        | II                                             |
| Degree of pollution         | 3                                              |
| Connection method           | Solder pins                                    |
| Insertion/withdrawal cycles | > 100                                          |
| Torque                      | 3 Nm ... 4 Nm (Installation-side)              |
| Mounting type               | Front mounting Square flange 20 mm side length |

### Material

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA 66                        |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | FKM                          |

### Cable

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Conductor cross section            | 0.34 mm <sup>2</sup>                            |
| Conductor structure signal line    | 7x 0.25 mm                                      |
| Core diameter including insulation | 1.2 mm $\pm 0.07$ 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              |

## Flush-type connector - SACC-SQ-M12MSD-4CON-20-L180 - 1456394

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27279220 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

#### 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   | 39121413 |

### Approvals

#### Approvals

#### Approvals

UL Recognized / EAC / cULus Recognized / EAC

#### Ex Approvals

#### Approvals submitted

#### Approval details

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

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## Approvals

|                    |       |
|--------------------|-------|
| Nominal voltage UN | 250 V |
|--------------------|-------|

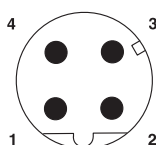
|     |
|-----|
| EAC |
|-----|

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

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

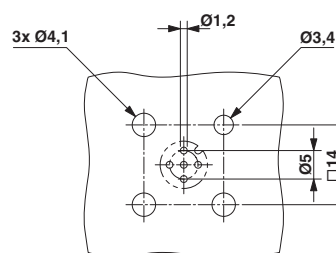
## Drawings

Schematic diagram

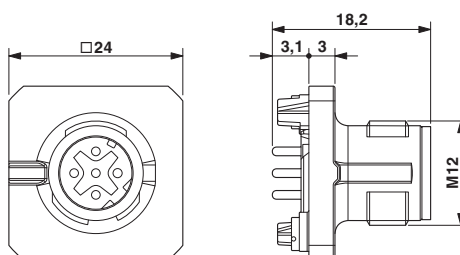


Pin assignment M12 male connector, 4-pos., D-coded, male side

Drilling diagram



Dimensional drawing



M12 flush-type plug, square flange

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