

# Flush-type connector - SACC-DSI-FSD-4CON-L180/SH GN - 1456569

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Bus system flush-type socket, with green contact carrier, 4-pos., M12 SPEEDCON, shielded, D-coded, rear/screw mounting with M16 thread, with straight solder connection

## Your advantages

- ✓ Easy PCB assembly: one-piece connectors for wave soldering
- ✓ All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- ✓ For high transmission reliability: optional shield connection to the housing by means of shield contact



## Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 20 pc                                                                                |
| GTIN         |  |
| GTIN         | 4046356617192                                                                        |

## Technical data

### Dimensions

|                          |      |
|--------------------------|------|
| Length of the solder pin | 6 mm |
|--------------------------|------|

### Ambient conditions

|                                 |                                              |
|---------------------------------|----------------------------------------------|
| Ambient temperature (operation) | -20 °C ... 60 °C (cable, fixed installation) |
| Degree of protection            | IP67 (When plugged in)                       |
|                                 | IP65 (When plugged in)                       |

### 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                                                                                                                                                                                                                                                                                                                                             |

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## Technical data

### General

|                       |                                   |
|-----------------------|-----------------------------------|
| Number of positions   | 4                                 |
| Insulation resistance | ≥ 100 MΩ                          |
| Coding                | D - data                          |
| Standards/regulations | M12 connector IEC 61076-2-101     |
| Status display        | No                                |
| Overvoltage category  | II                                |
| Degree of pollution   | 3                                 |
| Connection method     | Solder pins                       |
| Torque                | 3 Nm ... 4 Nm (Installation-side) |
| Mounting type         | Rear mounting Pg9 With flat nut   |

### Material

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | PA 6.6                       |
| Material of grip body                  | Zinc die-cast, nickel-plated |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | NBR                          |

### 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                            |

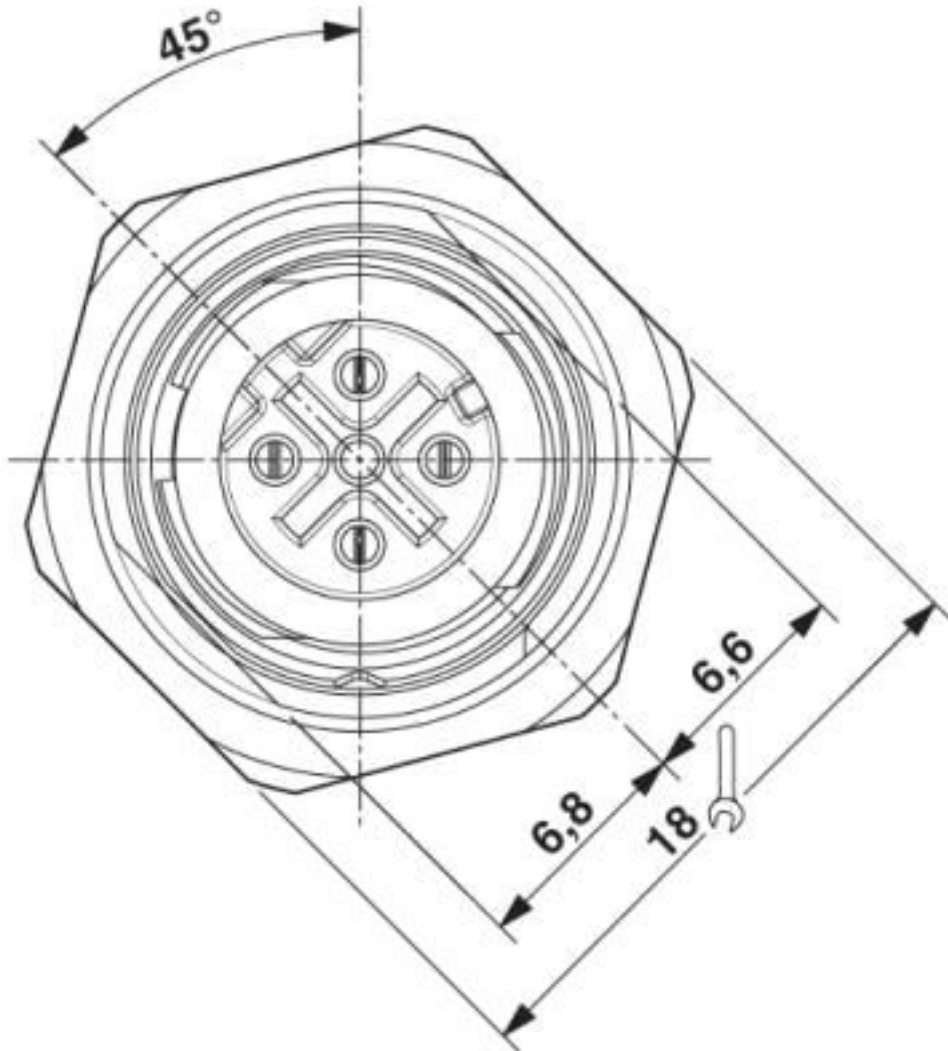
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| 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-DSI-FSD-4CON-L180/SH GN - 1456569

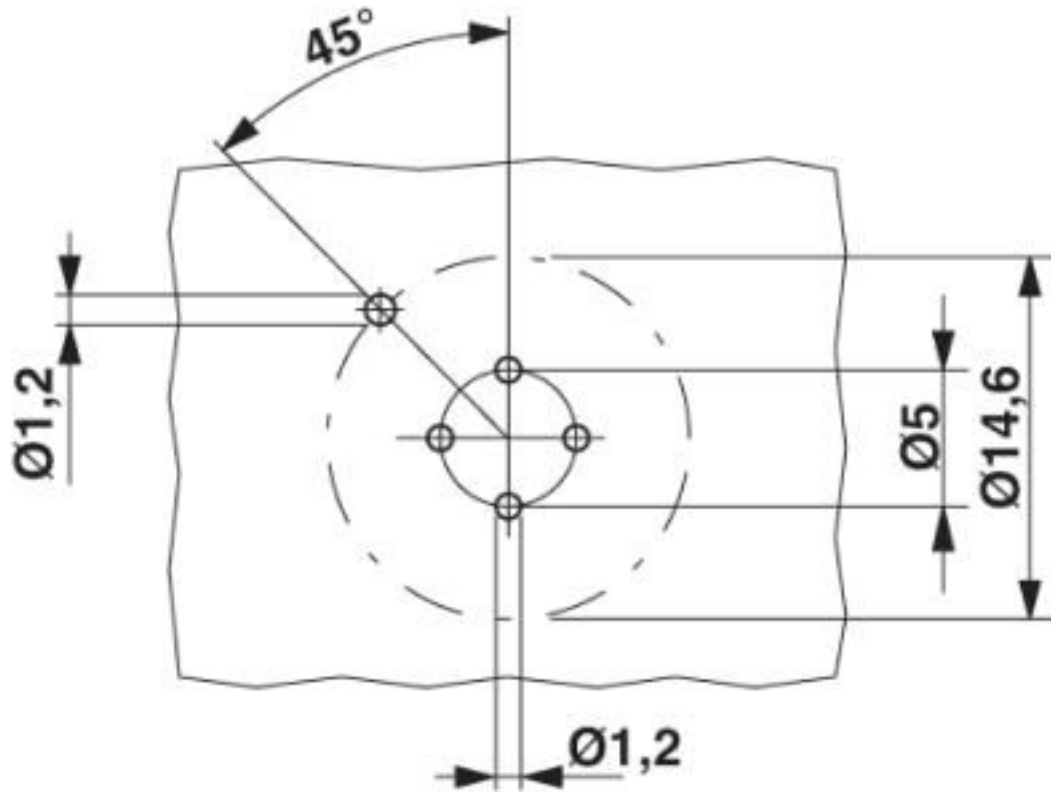
Dimensional drawing



M12 front view

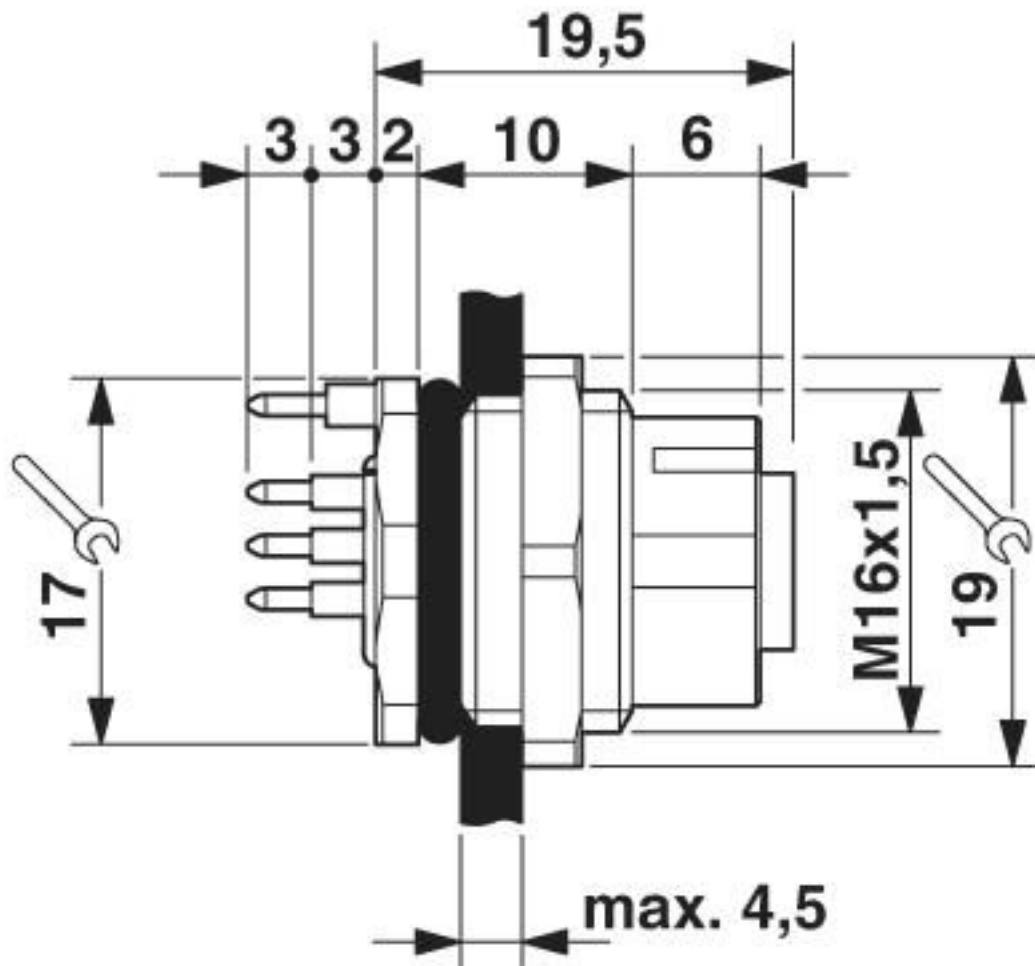
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Drilling diagram



## Flush-type connector - SACC-DSI-FSD-4CON-L180/SH GN - 1456569

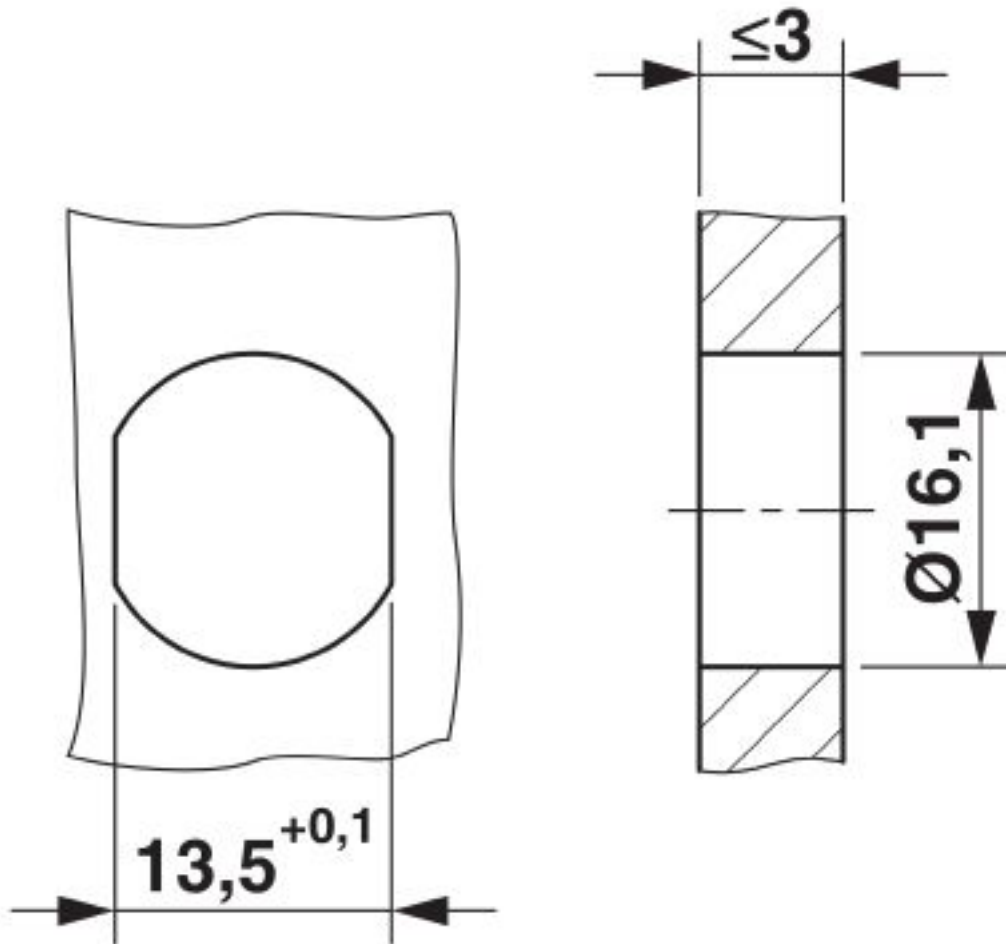
Dimensional drawing



M12 flush-type connector

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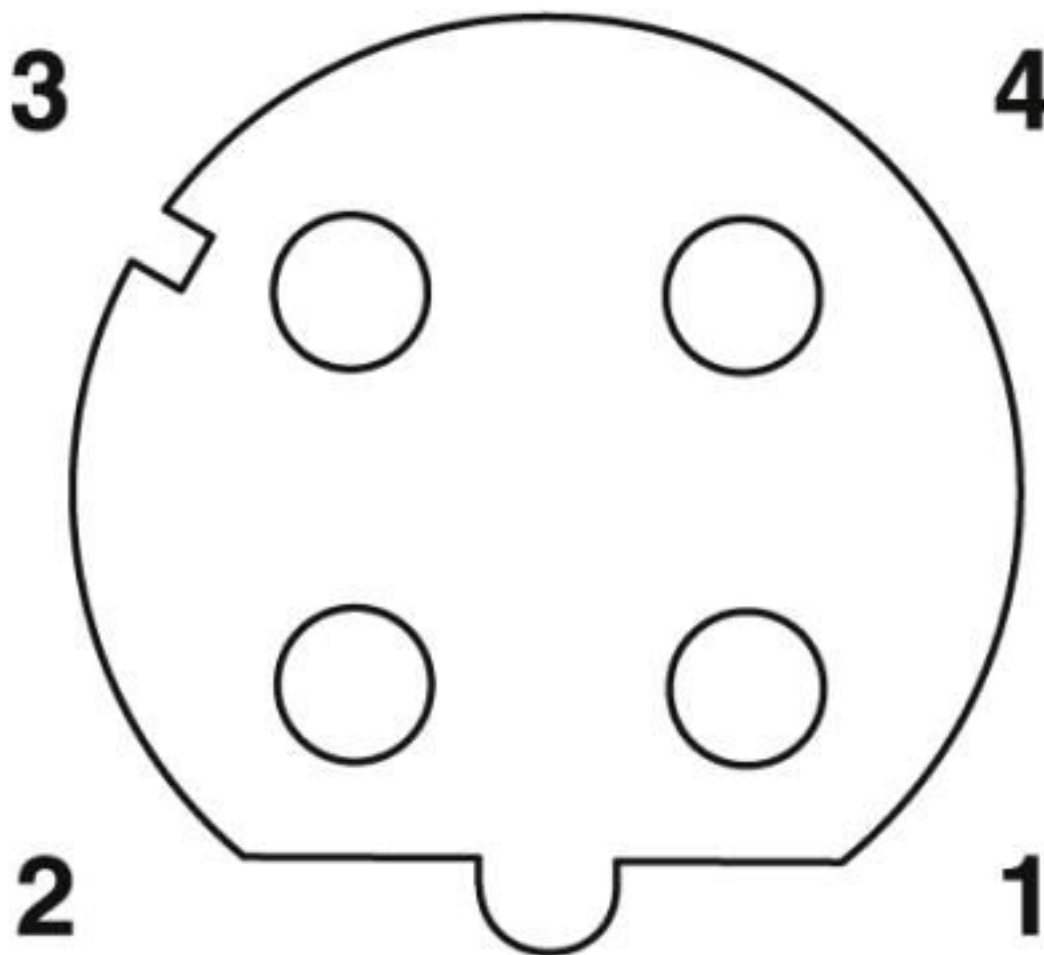
Dimensional drawing



Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with area as anti-rotation protection for panel thicknesses > 2 mm up to max. 4.5 mm)

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Schematic diagram



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

### 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 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| 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 / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL 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 | 250 V                                                                               |                                                                                                                                                       |               |
| Nominal current IN | 4 A                                                                                 |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 22                                                                                  |                                                                                                                                                       |               |

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

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### Approvals

|                                                                                                                                                                                                                                                                           |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 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> E221474-20140616 |       |
| Nominal voltage UN                                                                                                                                                                                                                                                        | 250 V |
| Nominal current IN                                                                                                                                                                                                                                                        | 4 A   |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                             | 22-20 |

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