

# SACC-DSI-FSD-4P-L180/12 FD SH - Device connector rear mounting



1402014

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Device connector rear mounting, Universal, 4-position, shielded, Socket, straight, M12-SPEEDCON, coding: D, Rear mounting, Solder pins

## 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
- SPEEDCON fast locking system reduces cabling times
- For high transmission reliability: optional shield connection to the housing by means of shield contact

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1402014                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 100 pc                         |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABQEHD                         |
| GTIN                                 | 4046356579742                  |
| Weight per piece (including packing) | 13.965 g                       |
| Weight per piece (excluding packing) | 12.865 g                       |
| Country of origin                    | DE                             |



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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Notes on operation | 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. |
| Order information: | Lock nut is included in the scope of delivery  |

### Mounting

|               |               |
|---------------|---------------|
| Mounting type | Rear mounting |
|---------------|---------------|

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Application         | Data                              |
|                     | Signal                            |
| Sensor type         | Universal                         |
| Number of positions | 4                                 |
| Shielded            | yes                               |
| Coding              | D                                 |
| Thread type         | M12                               |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Dimensions

|                          |       |
|--------------------------|-------|
| Length of the solder pin | 12 mm |
|                          | 12 mm |

### Material specifications

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Seal material                          | NBR                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA 6.6                       |
| Material for screw connection          | Zinc die-cast, nickel-plated |

### Electrical properties

|                       |        |
|-----------------------|--------|
| Rated surge voltage   | 2.5 kV |
| Nominal voltage $U_N$ | 250 V  |
| Nominal current $I_N$ | 4 A    |



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## Connection data

### Conductor connection

|                         |                                   |
|-------------------------|-----------------------------------|
| Connection method       | Solder pins                       |
| Contact connection type | Socket                            |
| Tightening torque       | 3 Nm ... 4 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Head locking type | SPEEDCON |
| Coding            | D        |

## Cable/line

|                                 |   |
|---------------------------------|---|
| Signal type/category            | Universal                                       |
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation)    |
|                                 | -25 °C ... 85 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Degree of protection  | IP67 (When plugged in)                          |
|   | IP65 (When plugged in)                          |
|   | IP65/IP67                                       |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                |
|   | -40 °C ... 85 °C (without mechanical actuation) |
| Ambient temperature (operation) (Cable, flexible installation)    | -25 °C ... 85 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 85 °C (cable, fixed installation)    |
| UL Type Rating  | Type 4 (indoor use only)                        |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-101 |



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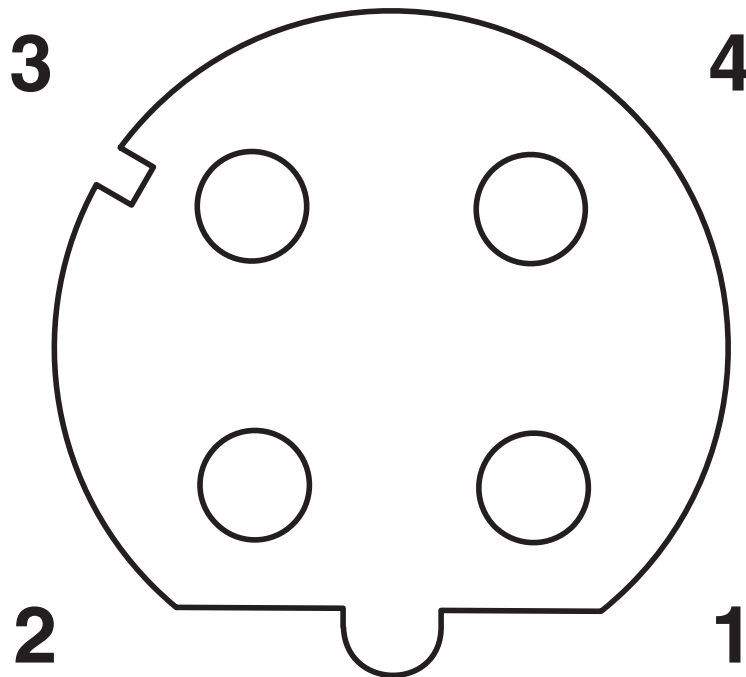


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## Drawings

Schematic diagram



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



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440110 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003568 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|



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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | fb77a58a-c1a9-487f-98b9-17be9b2ea2bb |

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)