

# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting



1425633

<https://www.phoenixcontact.com/us/products/1425633>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector rear mounting, Power, 4-position, Pin, straight, M12-Standard, L-coding, on free cable end, Individual wires, cable length: 0.2 m, 1.31 mm<sup>2</sup>, UL/cUL stranded hook-up wire, potted, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- Mechanical tightening limitation for long-term-stable gasket
- Preassembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1425633       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB24          |
| Product key                          | ABQCGG        |
| GTIN                                 | 4055626425825 |
| Weight per piece (including packing) | 32.2 g        |
| Weight per piece (excluding packing) | 29.411 g      |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting



1425633

<https://www.phoenixcontact.com/us/products/1425633>

## 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 (M16 x 1.5, XL version, with flat nut, tightening limitation) |
|---------------|---|

### Product properties

|                       |                                   |
|-----------------------|-----------------------------------|
| Product type          | Circular connectors (device side) |
| Application           | Power                             |
| Sensor type           | Power                             |
| Number of positions   | 4                                 |
| No. of cable outlets  | 1                                 |
| No. of power contacts | 4                                 |
| Shielded              | no                                |
| Coding                | L                                 |
| Thread type           | M12                               |

### Insulation characteristics

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

### Material specifications

|  |                    |
|--|--------------------|
| Material Housing                       | GD-Zn              |
| Material Housing surface               | Ni                 |
| Material Molding compound              | PUR (potted)       |
| Flammability rating according to UL 94 | V0                 |
| Seal material                          | FKM                |
| Contact material                       | CuZn               |
| Contact surface material               | Au                 |
| Contact carrier material               | PA                 |
| Conductor material                     | Bare Cu litz wires |

### Electrical properties

|                     |              |
|---------------------|--------------|
| Rated surge voltage | 1.5 kV       |
| Rated surge voltage | 1.5 kV AC/DC |

# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting



1425633

<https://www.phoenixcontact.com/us/products/1425633>

|                        |         |
|------------------------|---------|
| Nominal voltage $U_N$  | 63 V DC |
| Nominal current $I_N$  | 12 A    |
| Test voltage           | 1.5 kV  |
| Test voltage Core/Core | 3 kV    |

## Connection data

### Conductor connection

|                         |                      |
|-------------------------|----------------------|
| Connection method       | Individual wires     |
| Contact connection type | Pin                  |
| Conductor cross-section | 1.31 mm <sup>2</sup> |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Pin      |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Head locking type | Standard |
| Coding            | L        |

### Connection 2

|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

## Cable/line

|                                 |  |
|---------------------------------|--|
| Cable length                    | 0.2 m  |
| Cable type                      | UL/cUL stranded hook-up wire   |
| Signal type/category            | Power  |
| Wire diameter incl. insulation  | 2 mm   |
| Single wire, color              | brown 1, white 2, blue 3, black 4  |
| Cable cross section             | 1.31 mm <sup>2</sup>   |
| Conductor material              | Bare Cu litz wires   |
| AWG signal line                 | 16   |
| Material wire insulation        | mPPE   |
| Test voltage Core/Core          | 3 kV   |
| Halogen-free                    | yes  |
| Flame resistance                | in acc. to UL 1581 VW1   |
| Ambient temperature (operation) | -40 °C ... 85 °C (without mechanical actuation)<br>-40 °C ... 85 °C (without mechanical actuation)<br>-25 °C ... 105 °C (Cable, flexible installation) |

# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting



1425633

<https://www.phoenixcontact.com/us/products/1425633>

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection  | IP65   |
|   | IP67   |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                 |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 85 °C (without mechanical actuation)  |
| Ambient temperature (operation) (Cable, flexible installation)    | -25 °C ... 105 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 105 °C (cable, fixed installation)    |
| UL Type Rating  | Type 4 (indoor use only)                         |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Flame resistance         | in acc. to UL 1581 VW1       |
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-111 |

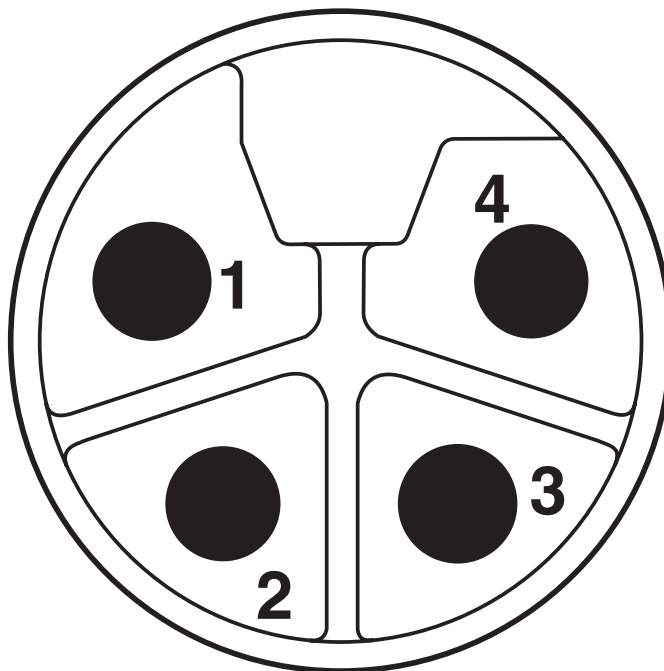
# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting

1425633

<https://www.phoenixcontact.com/us/products/1425633>

## Drawings

Schematic diagram



Pin assignment of M12 connector, 4-pos., L-coded, pin side view

# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting



1425633

<https://www.phoenixcontact.com/us/products/1425633>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1425633>

|  <b>cULus Recognized</b><br>Approval ID: E468743-20180113 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 63 V                  | 12 A                  | 16                | -                           |

# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting



1425633

<https://www.phoenixcontact.com/us/products/1425633>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003570 |
|-----------|----------|

### UNSPSC

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

# SACC-DSI-M12MSL4CONM16/0,2-1,5 - Device connector rear mounting



1425633

<https://www.phoenixcontact.com/us/products/1425633>

## 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                                | c64a3912-7cc0-4afb-9acb-e0e6199ad551 |

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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