

# SACC-DSI-M12MSL-4CON-M16XL/0,2 - Device connector rear mounting



1425588

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Device connector rear mounting, Power, 4-position, Pin, straight, M12-Standard, L-coding, on free cable end, Individual wires, cable length: 0.2 m, 2.50 mm<sup>2</sup>, PEX litz 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                          | 1425588       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB24          |
| Product key                          | ABQCGG        |
| GTIN                                 | 4055626424378 |
| Weight per piece (including packing) | 44.7 g        |
| Weight per piece (excluding packing) | 42.125 g      |
| Customs tariff number                | 85444290      |
| 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 (M16 x 1.5, XL version, with flat nut, tightening limitation) |
| Tightening torque | 1.5 Nm ... 2 Nm   |

### 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                     | Tin-plated Cu litz wires |

### Electrical properties

|                     |        |
|---------------------|--------|
| Rated surge voltage | 1.5 kV |
|---------------------|--------|

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|                       |              |
|-----------------------|--------------|
| Rated surge voltage   | 1.5 kV AC/DC |
| Nominal voltage $U_N$ | 63 V DC      |
| Nominal current $I_N$ | 16 A         |
| Test voltage          | 1.5 kV       |

## Connection data

### Conductor connection

|                         |                     |
|-------------------------|---------------------|
| Connection method       | Individual wires    |
| Contact connection type | Pin                 |
| Conductor cross-section | 2.5 mm <sup>2</sup> |
| Tightening torque       | 1.5 Nm ... 2 Nm     |

## 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                      | PEX litz wire                                    |
| Signal type/category            | Power  |
| Single wire, color              | brown 1, white 2, blue 3, black 4                |
| Cable cross section             | 2.5 mm <sup>2</sup>                              |
| Conductor material              | Tin-plated Cu litz wires                         |
| AWG signal line                 | 14   |
| Material wire insulation        | PE-X   |
| Halogen-free                    | according to IEC 60754-1                         |
| Flame resistance                | in acc. with UL FT-2                             |
| Ambient temperature (operation) | -40 °C ... 85 °C (without mechanical actuation)  |
|                                 | -40 °C ... 85 °C (without mechanical actuation)  |
|                                 | -25 °C ... 105 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |

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|   |  |
|---|--|
| 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. with UL FT-2         |
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-111 |

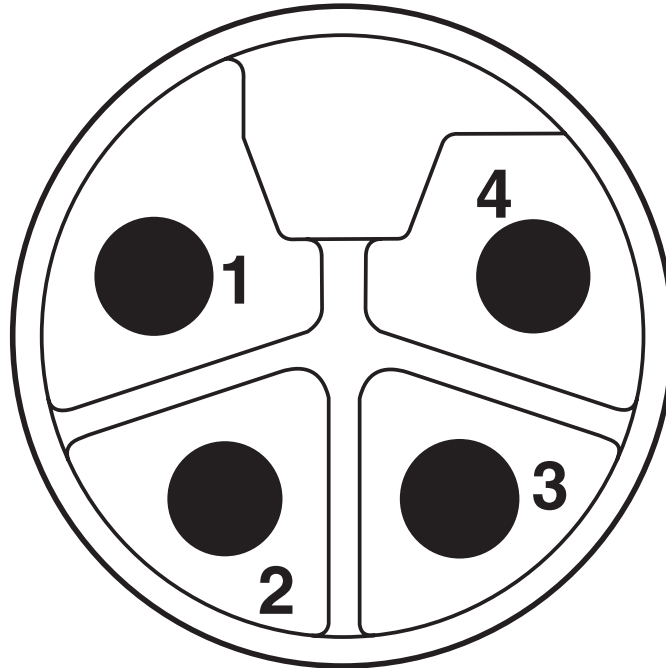
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## Drawings

Schematic diagram



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

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## Approvals

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|  <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                  | 16 A                  | 14                | -                           |

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## Classifications

### ECLASS

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

### ETIM

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

### 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                                | 019382ed-1805-4cbe-8a77-83081aedaed3 |

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