

# SACC-DSI-M12MSL4FEM16XL-L180GRX - Device connector rear mounting



1239521

<https://www.phoenixcontact.com/us/products/1239521>

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Device connector rear mounting, Power, 5-position, Pin, straight, M12, L-coding, Wave soldering, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- 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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1239521       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales key                            | AB26          |
| Product key                          | ABQEGN        |
| GTIN                                 | 4063151431907 |
| Weight per piece (including packing) | 18.59 g       |
| Weight per piece (excluding packing) | 17.153 g      |
| Customs tariff number                | 85366990      |
| 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. |
| Notes on operation | FE not connected to metal parts that can be touched, no protective function  |
| Order information: | Lock nut is included in the scope of delivery  |

### Mounting

|               |  |
|---------------|--|
| Mounting type | Rear mounting (M16 x 1.5, with flat nut) |
|---------------|--|

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Number of positions | 5                                 |
| 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 Contact carrier               | PA    |
| Material Contact                       | CuZn  |
| Material Contact surface               | Au    |
| Material Seal                          | FKM   |
| Flammability rating according to UL 94 | V0    |

### Electrical properties

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

### Connection data

#### Conductor connection

|                   |                |
|-------------------|----------------|
| Connection method | Wave soldering |
|-------------------|----------------|

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|                         |     |
|-------------------------|-----|
| Contact connection type | Pin |
|-------------------------|-----|

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

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

## Cable/line

|                      |       |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

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

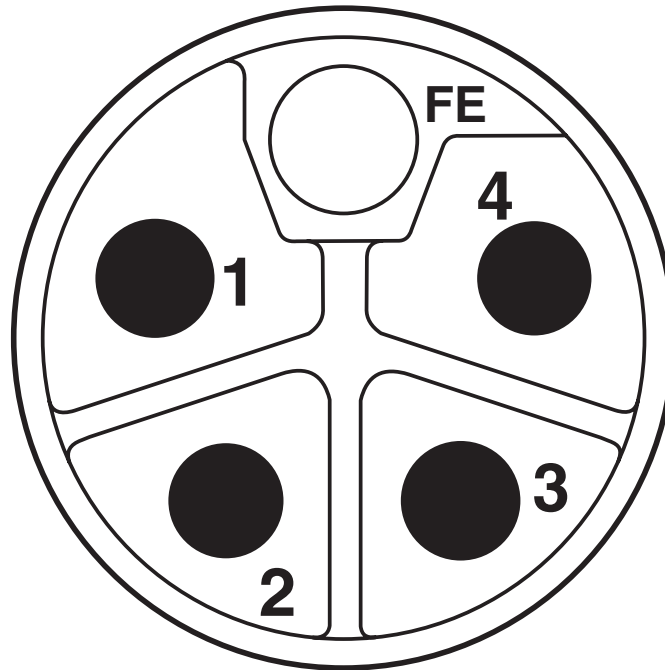
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## Drawings

Schematic diagram



Pin assignment of M12 connector, 5-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                  | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440110 |
| ECLASS-15.0 | 27440110 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003568 |
|-----------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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