

# SACC-DSI-M12MST-4P-M16XL/1,0 - Device connector rear mounting



1162539

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Device connector rear mounting, Power, 4-position, Pin, straight, M12, T-coding, on free cable end, Individual wires, cable length: 0.5 m, 1.31 mm<sup>2</sup>, UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238550

## 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                          | 1162539       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB24          |
| Product key                          | ABQCGG        |
| GTIN                                 | 4063151173135 |
| Weight per piece (including packing) | 22.22 g       |
| Weight per piece (excluding packing) | 74.52 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                         |
| Tightening torque | 0.8 Nm ... 1.3 Nm (Installation-side) |

### Product properties

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

### Insulation characteristics

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

### Material specifications

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Seal material                          | FKM                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |
| Conductor material                     | Bare Cu litz wires           |

### Electrical properties

|                       |              |
|-----------------------|--------------|
| Rated surge voltage   | 1.5 kV       |
| Rated surge voltage   | 1.5 kV AC/DC |
| Contact resistance    | ≤ 3 mΩ       |
| Insulation resistance | ≥ 100 MΩ     |
| Nominal voltage $U_N$ | 63 V         |
| Nominal current $I_N$ | 12 A         |

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|              |        |
|--------------|--------|
| Test voltage | 1.5 kV |
|--------------|--------|

## Connection data

### Conductor connection

|                         |                                       |
|-------------------------|---------------------------------------|
| Connection method       | Individual wires                      |
| Contact connection type | Pin                                   |
| Conductor cross-section | 1.31 mm <sup>2</sup>                  |
| Tightening torque       | 0.8 Nm ... 1.3 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

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

### Connection 2

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

## Cable/line

|                                 |   |
|---------------------------------|---|
| Cable length                    | 0.5 m   |
| Cable type                      | UL/cUL stranded hook-up wire  |
| Signal type/category            | Power   |
| Wire diameter incl. insulation  | 2 mm  |
| Single wire, color              | black, brown, blue, white   |
| Cable cross section             | 1.31 mm <sup>2</sup>  |
| Conductor material              | Bare Cu litz wires  |
| AWG signal line                 | 16  |
| Material wire insulation        | mPPE  |
| Halogen-free                    | yes   |
| Flame resistance                | in acc. to UL 1581 VW1  |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)<br>-20 °C ... 105 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                      |                   |
|----------------------|-------------------|
| Degree of protection | IP67<br>IP65/IP67 |
|----------------------|-------------------|

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|   |  |
|---|--|
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                 |
| Ambient temperature (operation) (Cable, flexible installation)    | -20 °C ... 105 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 105 °C (cable, fixed installation)    |

## Standards and regulations

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

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## Drawings

Schematic diagram



Connector pin assignment of M12 plug, 4-pos., T-coded, view of pin side

Circuit diagram



Contact assignment of the M12 plug

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## Classifications

### ECLASS

ECLASS-13.0

27440116

### ETIM

ETIM 9.0

EC002635

### 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                                | 8f76c4b4-d564-4ad8-9706-ba40ce07e8e5 |

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