

## Panel feed-through - SACC-E-M12MSB-5CON-M20/0,5 VA - 1452084

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Sensor/actuator panel-mount connector, 5-pos., M12, B-coded, front/screw mounting with M20 x 1.5 thread, with 0.5 m TPE litz wire, 5 x 0.34 mm<sup>2</sup>, stainless steel version

### Why buy this product

- Pre-assembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut

### Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 1 STK         |
| GTIN                                 |               |
| GTIN                                 | 4046356528733 |
| Weight per Piece (excluding packing) | 1.000 g       |
| Custom tariff number                 | 85444290      |
| Country of origin                    | Germany       |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.5 m |
|-----------------|-------|

#### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket)                |
|                                 | -40 °C ... 85 °C (without mechanical actuation) |

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## Technical data

### Ambient conditions

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

### General

|                             |  |
|-----------------------------|--|
| Note                        | 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. |
| Rated current at 40°C       | 4 A  |
| Rated voltage               | 60 V   |
| Rated surge voltage         | 1.5 kV   |
| Number of positions         | 5  |
| Insulation resistance       | ≥ 100 MΩ   |
| Coding                      | B - inverse  |
| Standards/regulations       | M12 connector IEC 61076-2-101  |
| Status display              | No   |
| Overvoltage category        | II   |
| Degree of pollution         | 3  |
| Connection method           | Individual wires   |
| Insertion/withdrawal cycles | > 100  |
| Torque                      | 3 Nm ... 4 Nm (Installation-side)  |
| Mounting type               | Front mounting M20 x 1,5   |

### Material

|  |                 |
|--|-----------------|
| Flammability rating according to UL 94 | V0              |
| Contact material                       | CuZn            |
| Contact surface material               | Au              |
| Contact carrier material               | PA 6.6          |
| Material, knurls                       | Stainless steel |
| Sealing material                       | NBR             |

### Cable

|                                    |                                 |
|------------------------------------|---------------------------------|
| Cable type                         | TPE litz wire                   |
| Conductor cross section            | 0.34 mm <sup>2</sup>            |
| AWG signal line                    | 22                              |
| Conductor structure signal line    | 7x 0.25 mm                      |
| Core diameter including insulation | 1.2 mm ±0.07 mm                 |
| Thickness, insulation              | 0.21 mm                         |
| Wire colors                        | Brown, white, blue, black, gray |
| Material conductor insulation      | TPE                             |

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## Technical data

### Cable

|                                 |   |
|---------------------------------|---|
| Conductor material              | Tin-plated Cu litz wires                        |
| Standards/specifications        | M12 connector IEC 61076-2-101                   |
| Insulation resistance           | $\geq 20 \text{ M}\Omega \cdot \text{km}$       |
| Conductor resistance            | $\leq 57.6 \text{ m}\Omega/\text{m}$            |
| Nominal voltage, cable          | 300 V   |
| Test voltage, cable             | 2000 V AC                                       |
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation)    |
|                                 | -25 °C ... 85 °C (cable, flexible installation) |

### Standards and Regulations

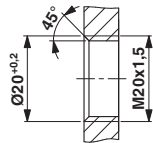
|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0              |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

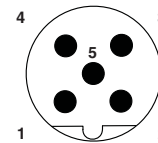
## Drawings

Dimensional drawing



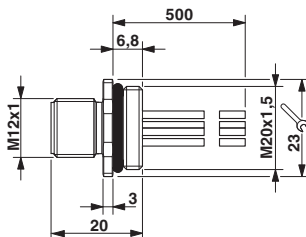
Housing cutout for M20 fastening thread, mounting panel with thread

Schematic diagram



Pin assignment M12 male connector, 5-pos., B-coded, male side

Dimensional drawing



M12 flush-type plug

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 39121413 |

## Approvals

### Approvals

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#### Approvals

UL Recognized / cULus Recognized / EAC

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#### Ex Approvals

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### Approval details

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## Approvals

|                            |  |   |               |
|----------------------------|--|---|---------------|
| UL Recognized              |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN         |  | 60 V  |               |
| Nominal current IN         |  | 4 A   |               |
| mm <sup>2</sup> /AWG/kcmil |  | 22  |               |

|                            |  |   |                  |
|----------------------------|--|---|------------------|
| cULus Recognized           |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E221474-20140616 |
| Nominal voltage UN         |  | 60 V  |                  |
| Nominal current IN         |  | 4 A   |                  |
| mm <sup>2</sup> /AWG/kcmil |  | 22-20   |                  |

|     |  |         |
|-----|--|---------|
| EAC |  | B.00767 |
|-----|--|---------|

## Accessories

### Accessories

#### Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

Sealing cap - PROT-M12 FS-M - 1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

