

Panel feed-through - SACC-E-M12FS-4CON-PG9/0,5 - 1693788

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Sensor/Actuator flush-type socket, 4-pos., M12, A-coded, front/screw mounting with Pg9 thread, with 0.5 m TPE litz wire, 4 x 0.34 mm²

Product Features

- Vorkonfektioniert mit Litzen für den sofortigen Einsatz
- Kundenspezifische Konfektionen und Litzenlängen lieferbar
- Litzenseitig vergossen für optimale Dichtigkeit
- Alle gängigen Polbilder und Kodierungen zur Signal-, Daten- und Leistungsübertragung mit einheitlicher Design-in-Bauform
- Für hohe Übertragungssicherheit: Schirmanbindung an das Gehäuse mit optionaler EMV-Mutter



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 21.0 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) |
| 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. |
|------|--|

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Technical data

General

| | |
|-----------------------------|-----------------------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 250 V |
| Rated surge voltage | 2.5 kV |
| Number of positions | 4 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| 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 Pg9 |

Material

| | |
|--|---------------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | NiAu |
| Contact carrier material | PA66 |
| Material, knurls | Nickel-plated brass |
| Sealing material | FKM |

Cable

| | |
|------------------------------------|--|
| Cable type | TPE litz wire |
| Conductor cross section | 0.34 mm ² |
| 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 |
| Material conductor insulation | TPE |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 20 MΩ*km |
| Conductor resistance | ≤ 57.6 Ω/km |
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 2000 V AC |
| Ambient temperature (operation) | -25 °C ... 90 °C (cable, fixed installation) |

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Technical data

Standards and Regulations

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

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440103 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002061 |

UNSPSC

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

Approvals

Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

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Approvals

Approvals submitted

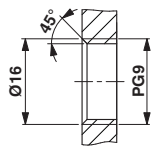
Approval details

| |
|-----|
| EAC |
|-----|

| | |
|--------------------------------|-------|
| cULus Recognized | |
| mm ² /AWG/kcmil | 20 |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 250 V |

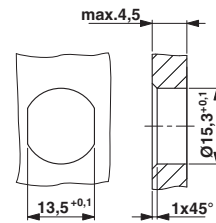
Drawings

Dimensional drawing



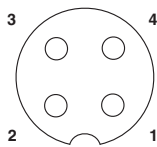
Housing cutout for Pg9 fastening thread, mounting panel with thread

Dimensional drawing



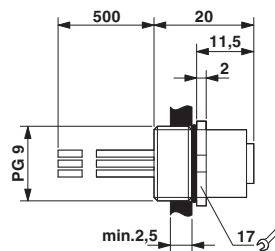
Housing cutout for Pg9 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

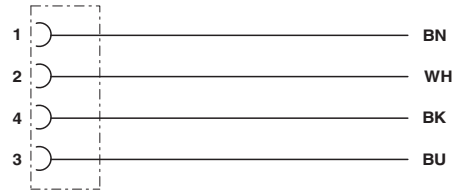
Dimensional drawing



M12 flush-type connector

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Circuit diagram



Contact assignment of the M12 plug and the M12 socket
