

SACC-DSI-M8FS-3CON-M10/0,5 - Device connector rear mounting



1456080

<https://www.phoenixcontact.com/us/products/1456080>

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Device connector rear mounting, 3-position, Socket, straight, M8, A-coding, on free cable end, Individual wires, cable length: 0.5 m, 0.25 mm², PVC litz wire

Your advantages

- 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
- Standard pin assignments and codings for signal transmission with a uniform design-in design

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1456080 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB22 |
| Product key | ABQIDB |
| GTIN | 4046356605908 |
| Weight per piece (including packing) | 12.9 g |
| Weight per piece (excluding packing) | 9.7 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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Technical data

Mounting

| | |
|-------------------|-------------------------------------|
| Mounting type | Rear mounting (M10, with flat nut) |
| Tightening torque | 1 Nm ... 1.5 Nm (Installation-side) |

Product properties

| | |
|----------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Application | Signal |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |
| Thread type | M8 |

Insulation characteristics

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

Material specifications

| | |
|----------------------------------------|--------------------------|
| Material Housing | GD-Zn |
| Material Housing surface | Ni |
| Flammability rating according to UL 94 | HB |
| Seal material | FKM |
| Contact material | Cu alloy |
| Contact surface material | Au |
| Contact carrier material | PUR/PA 6.6 |
| Conductor material | Tin-plated Cu litz wires |

Electrical properties

| | |
|---------------------------|----------------------------|
| Rated surge voltage | 1.5 kV |
| Contact resistance | $\leq 3 \text{ m}\Omega$ |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 48 V AC |
| | 60 V DC |
| Nominal current I_N | 4 A |
| Max. conductor resistance | 80 Ω/km |

Connection data

Conductor connection

| | |
|-------------------------|------------------|
| Connection method | Individual wires |
| Contact connection type | Socket |

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| | |
|-------------------------|-------------------------------------|
| Conductor cross-section | 0.25 mm ² |
| Tightening torque | 1 Nm ... 1.5 Nm (Installation-side) |

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M8 |
| Coding | A |

Connection 2

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

Cable/line

| | |
|---------------------------------|--------------------------------------------------------------------|
| Cable length | 0.5 m |
| Cable type | PVC litz wire |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm |
| Single wire, color | brown, blue, black |
| Cable cross section | 0.25 mm ² |
| Conductor material | Tin-plated Cu litz wires |
| Conductor structure signal line | 7x 0.20 mm |
| AWG signal line | 24 |
| Material wire insulation | PVC / UL |
| Thickness, insulation | 0.21 mm |
| Nominal voltage, cable | 450 V |
| Test voltage, cable | 2500 V (Test duration: 1 minute) |
| Cable resistance | ≥ 80 Ω/km |
| Cable insulation resistance | ≥ 20 MΩ*km |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) -10 °C ... 105 °C |

Environmental and real-life conditions

Ambient conditions

| | |
|-------------------------------------------------------------------|-----------------------------------------------|
| Degree of protection | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Socket) |
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 105 °C (cable, fixed installation) |
| Ambient temperature (operation) (Cable, flexible installation) | -10 °C ... 105 °C |

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Standards and regulations

| | |
|--------------------------|------------------------------|
| Standard designation | M8 circular connector |
| Standards/specifications | according to IEC 61076-2-104 |

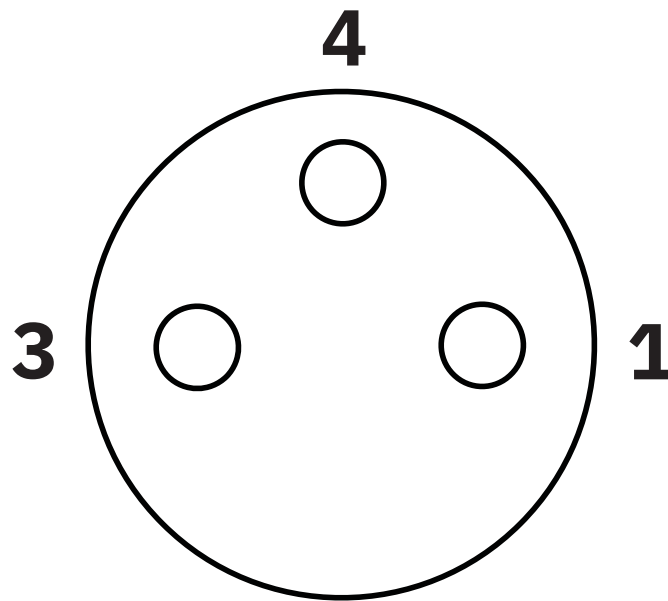
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Drawings

Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

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Approvals

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|  cUL Recognized Approval ID: E221474-20070307 | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 30 V | 4 A | 24 | - |

|  UL Recognized Approval ID: E221474-20070307 | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 30 V | 4 A | 24 | - |

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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 | b13f2508-f05b-4466-807f-aa04cc202b68 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.915 kg CO2e |
|---------|---------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com