

# SACC-DSI-M12FST-4CON-M16/3,0X - Device connector rear mounting



1238153

<https://www.phoenixcontact.com/us/products/1238153>

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Device connector rear mounting, Power, 4-position, Socket, straight, M12-Standard, T-coding, on free cable end, Individual wires, cable length: 3 m, 1.31 mm<sup>2</sup>, UL/cUL stranded hook-up wire, potted, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- For compact devices: transmit high power in a confined space
- 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                          | 1238153       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB24          |
| Product key                          | ABQCHB        |
| GTIN                                 | 4063151384371 |
| Weight per piece (including packing) | 187.6 g       |
| Weight per piece (excluding packing) | 183.36 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                                                                                                                                                                                                                                                                                                      |
| General            | Contact connection method: Crimp connection                                                                                                                                                                                                                                                                                                        |

### Mounting

|                   |                                          |
|-------------------|------------------------------------------|
| Mounting type     | Rear mounting (M16 x 1.5, with flat nut) |
| Tightening torque | M12 connector                            |

### Product properties

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

### Insulation characteristics

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

### Material specifications

|                                        |                    |
|----------------------------------------|--------------------|
| Material Housing                       | GD-Zn              |
| Material Housing surface               | Ni                 |
| Material Molding compound              | PUR (potted)       |
| Flammability rating according to UL 94 | V0                 |
| Seal material                          | FKM                |
| Contact material                       | CuZn               |
| Contact surface material               | Au                 |
| Contact carrier material               | PA                 |
| Conductor material                     | Bare Cu litz wires |

### Electrical properties

|                     |        |
|---------------------|--------|
| Rated surge voltage | 1.5 kV |
|---------------------|--------|

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|                       |                            |
|-----------------------|----------------------------|
| Rated surge voltage   | 1.5 kV AC/DC               |
| Contact resistance    | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 63 V DC                    |
| Nominal current $I_N$ | 12 A                       |
| Test voltage          | 1.5 kV                     |

## Connection data

### Conductor connection

|                         |                      |
|-------------------------|----------------------|
| Connection method       | Individual wires     |
| Contact connection type | Socket               |
| Conductor cross-section | 1.31 mm <sup>2</sup> |
| Tightening torque       | M12 connector        |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Head locking type | Standard |
| Coding            | T        |

### Connection 2

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

## Cable/line

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| Cable length                                    | 3 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       |
| -40 °C ... 85 °C (without mechanical actuation) |                              |

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|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C (without mechanical actuation)  |
|                                 | -25 °C ... 105 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                                  |
|-------------------------------------------------------------------|--------------------------------------------------|
| Degree of protection                                              | IP65                                             |
|                                                                   | IP67                                             |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                 |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 85 °C (without mechanical actuation)  |
| Ambient temperature (operation) (Cable, flexible installation)    | -25 °C ... 105 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 105 °C (cable, fixed installation)    |
| UL Type Rating                                                    | Type 4 (indoor use only)                         |

## Standards and regulations

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

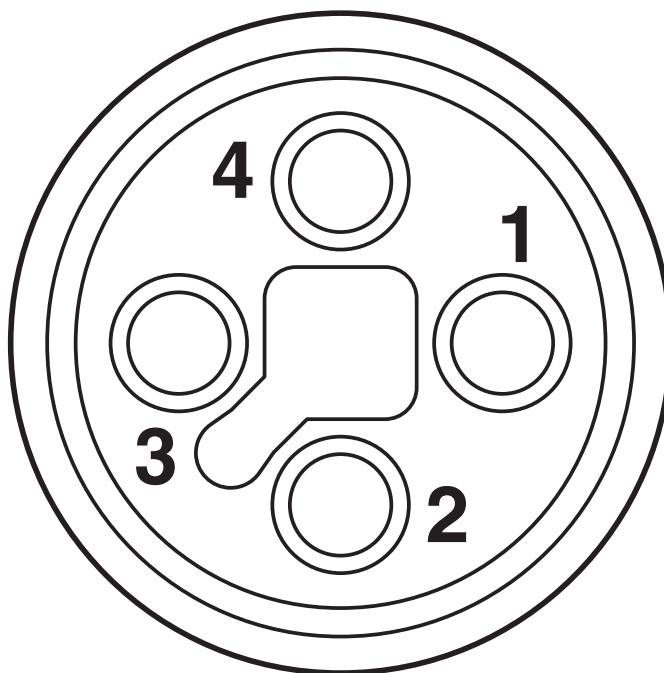
# SACC-DSI-M12FST-4CON-M16/3,0X - Device connector rear mounting

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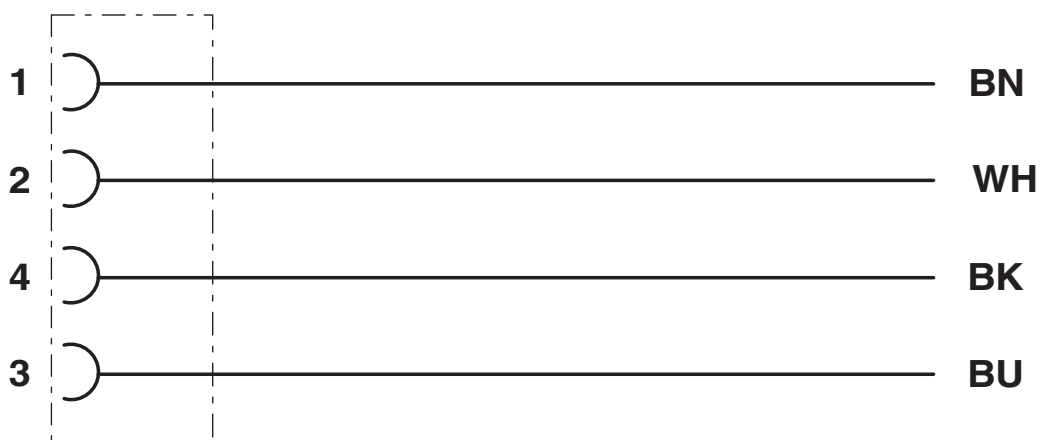
## Drawings

Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

Circuit diagram



Contact assignment of the M12 socket

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## Approvals

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|                                                                                                                                          |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E468743-20190917 |                       |                       |                   |                             |
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 63 V                  | 12 A                  | 16                | -                           |

|                                                                                                                                         |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: E468743-20190917 |                       |                       |                   |                             |
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                   |                       |                       |                   |                             |
|                                                                                                                                         | 63 V                  | 12 A                  | 16                | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003570 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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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