

# SACC-E-M12MSD-4PL-M20 PN - Panel feed-through

1139796

<https://www.phoenixcontact.com/us/products/1139796>



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Panel feed-through, PROFINET, 4-position, shielded, Plug straight M12, coding: D, Front mounting, M20 x 1.5, Push-lock spring connection, knurl material: Brass, nickel-plated, Flat nut included

## Your advantages

- Easy and tool-free connection with Push-Lock connection
- Easy assignment of individual conductors with color coding and numerical marking of contact holder levers
- Conveniently connect stranded conductors, thanks to lever
- Reliable and quick connection of electric cables

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1139796       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF33          |
| Product key                          | AF2CFN        |
| GTIN                                 | 4063151221287 |
| Weight per piece (including packing) | 30.5 g        |
| Weight per piece (excluding packing) | 30.5 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Assembly note      | <p><b>NOTE:</b> Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.</p>   |
| Notes on operation | <p>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 &gt; IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.</p> |
| General            | <p>This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling)</p>  |

### Mounting

|                   |                          |
|-------------------|--------------------------|
| Tightening torque | 2 Nm (Installation-side) |
|-------------------|--------------------------|

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Sensor type          | PROFINET                          |
| Number of positions  | 4                                 |
| No. of cable outlets | 1                                 |
| Coding               | D                                 |
| Cable outlet         | straight                          |

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

### Dimensions

|                     |                 |
|---------------------|-----------------|
| Dimensional drawing |                 |
| Length              | 21 mm           |
| Hole diameter       | 20.4 mm +0.1 mm |

|                  |       |
|------------------|-------|
| Housing          |       |
| Diameter housing | 29 mm |

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## Material specifications

|  |                        |
|--|------------------------|
| Material                               | PA 6 (Actuation lever) |
| Flammability rating according to UL 94 | V0                     |
| Contact material                       | CuSn                   |
| Contact surface material               | Ni/Au                  |
| Contact carrier material               | PA 6.6                 |
| Material for screw connection          | Brass, nickel-plated   |

## Electrical properties

|                       |  |
|-----------------------|--|
| Rated surge voltage   | 1.5 kV   |
| Contact resistance    | $\leq 5 \text{ m}\Omega$                             |
| Insulation resistance | $\geq 100 \text{ M}\Omega$                           |
| Nominal voltage $U_N$ | 48 V AC<br>60 V DC                                   |
| Nominal current $I_N$ | 4 A (2 A when using 0.14 mm <sup>2</sup> conductors) |

## Connection data

| Conductor connection                    |   |
|---|---|
| Connection method                       | Push-lock spring connection   |
| Contact connection type                 | Pin   |
| Connection cross section                | 0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (without ferrule)<br>0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (with ferrule)<br>0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (solid) |
| Connection cross section AWG            | 26 ... 18 (without ferrule)<br>28 ... 20 (with ferrule)   |
| Stripping length of the individual wire | 7 mm  |
| Tightening torque                       | 2 Nm (Installation-side)  |

## Mechanical properties

| Mechanical data             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |

## Connector

| Connection 1      |          |
|-------------------|----------|
| Head design       | Plug     |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Coding            | D        |

## Cable/line

|   |          |
|---|----------|
| Signal type/category                    | PROFINET |
| Stripping length of the individual wire | 7 mm     |

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## Environmental and real-life conditions

### Ambient conditions

|   |                                  |
|---|----------------------------------|
| Degree of protection  | IP67                             |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 85 °C (Plug / socket) |

## Standards and regulations

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

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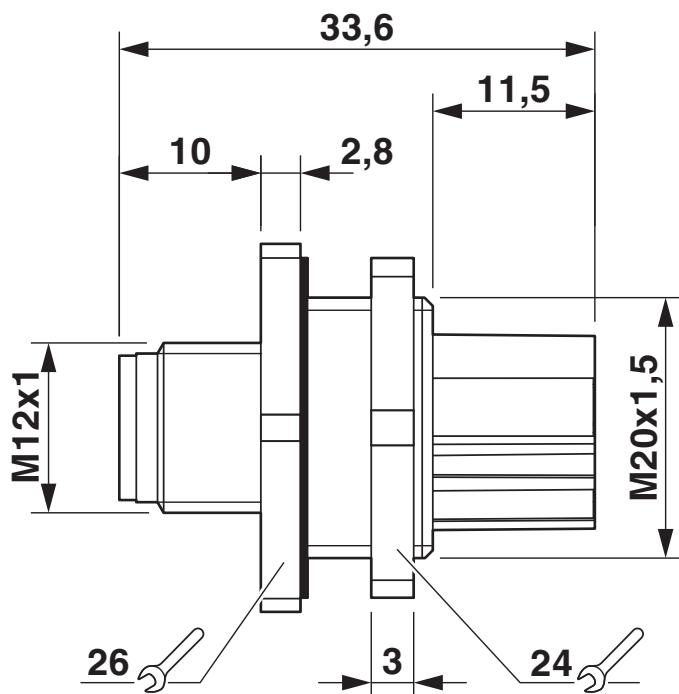


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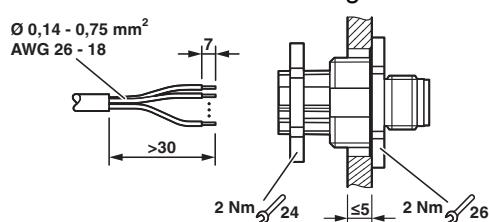
## Drawings

Dimensional drawing



M12 flush-type plug

Functional drawing



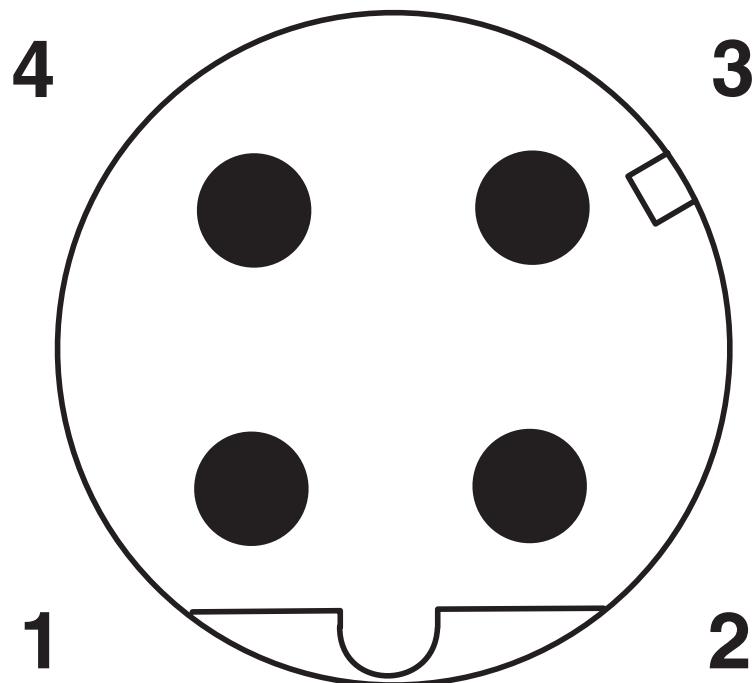
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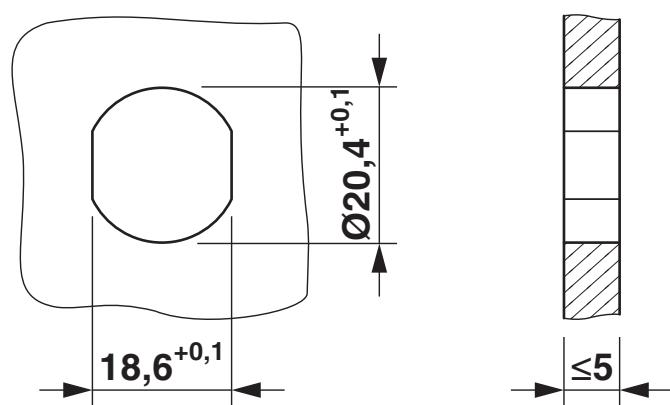
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Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

Drilling plan/solder pad geometry



Housing cutout for M20 fastening thread, mounting panel with thread

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1139796>



**UL Listed**

Approval ID: E221474



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003569 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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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