

SAC-3P-M12MS/0,6-240/BI-1L-Z - Sensor/actuator cable



1438723

<https://www.phoenixcontact.com/us/products/1438723>

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Sensor/actuator cable, 3-position, PUR halogen-free, yellow, Plug straight M12, coding: A, with 1 LED, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode, cable length: 0.6 m

The figure shows the SPEEDCON version with a black conductor

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1438723 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF07 |
| Product key | AF1DMA |
| GTIN | 4046356496698 |
| Weight per piece (including packing) | 47.6 g |
| Weight per piece (excluding packing) | 47.6 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|--|
| Product type | Sensor/actuator cable with valve connector |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |

Insulation characteristics

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

Material specifications

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | HB |
| Seal material | TPU |
| Material housing valve plug | TPU |
| Material of grip body | TPU |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Contact material | CuSn |
| Valve plug contact insert material | PA 6.6 |
| Contact surface material | Sn |
| Material for screw connection | Zinc die-cast, nickel-plated |

Electrical properties

| | |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 24 V AC |
| | 24 V DC |
| Nominal current I_N | 4 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|------------|

Signaling

| | |
|------------------------|-------|
| Status display | 1 LED |
| Status display present | yes |

Connector

Connection 1

| | |
|------|-------------------|
| Type | Plug straight M12 |
|------|-------------------|

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| | |
|---------------------|---|
| Number of positions | 3 |
| Coding type | A |

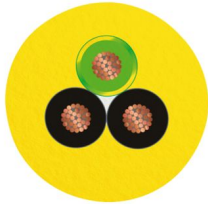
Connection 2

| | |
|---------------------|----------------------------|
| Type | Valve connector BI (11 mm) |
| Number of positions | 3 |
| Material | CuSn (Contact) |
| | Sn (Contact surface) |
| | PA 6.6 (Contact carrier) |
| | TPU (Housing) |
| Protective circuit | Z diode |

Cable/line

| | |
|--------------|-------|
| Cable length | 0.6 m |
|--------------|-------|

PUR halogen-free yellow [240]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 30 kg/km |
| UL AWM Style | 20549 (80°C/300 V) |
| Number of positions | 3 |
| Shielded | no |
| Cable type | PUR halogen-free yellow [240] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor cross-section | 3x 0.5 mm ² |
| Wire diameter incl. insulation | 1.46 mm ±0.02 mm |
| External cable diameter | 4.50 mm ±0.15 mm |
| Outer sheath, material | PUR |
| External sheath, color | yellow |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | black 1, black 2, green/yellow |
| Thickness, insulation | ≥ 0.21 mm |
| Thickness, outer sheath | approx. 0.60 mm |
| Overall twist | 3 wires, twisted |
| Max. conductor resistance | ≤ 39 Ω/km |
| Insulation resistance | ≥ 10 GΩ*km |
| Nominal voltage, cable | ≤ 300 V |

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| | |
|---|--|
| Test voltage | ≥ 3000 V |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 23 mm |
| Smallest bending radius, movable installation | 45 mm |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Flame resistance | in accordance with DIN UL-Style 20549 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Ambient temperature (operation) | -15 °C ... 80 °C (cable, fixed installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| | -20 °C ... 85 °C (Valve connector) |
| | -40 °C ... 80 °C (cable, fixed installation) |
| | -15 °C ... 80 °C (Cable, flexible installation) |

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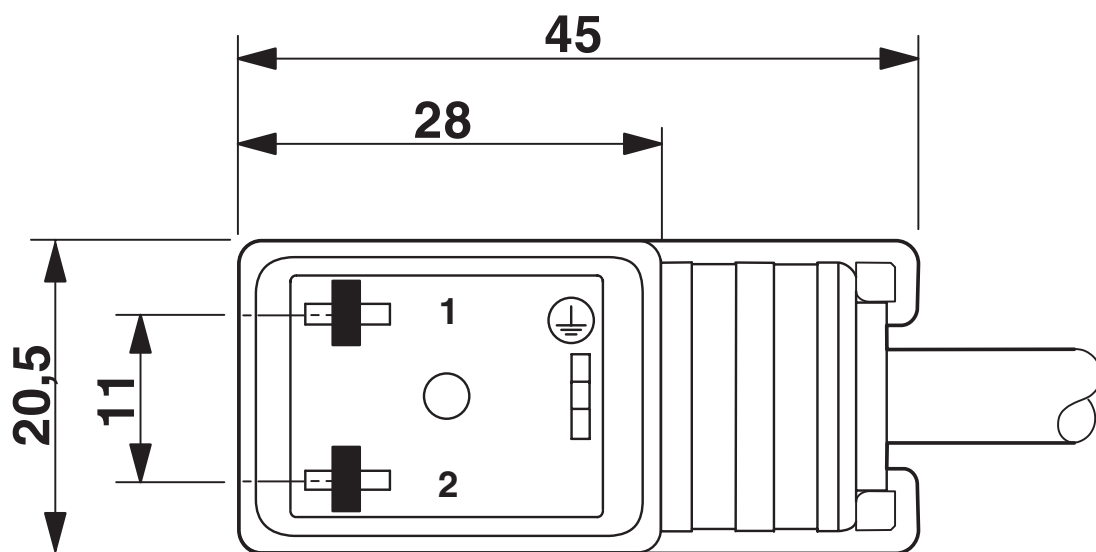
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing

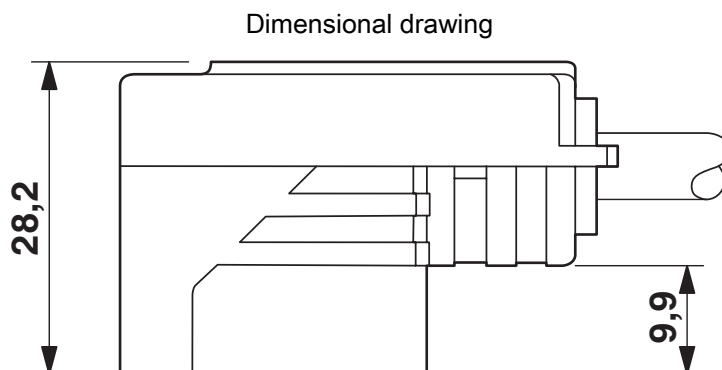


Valve connector, type BI

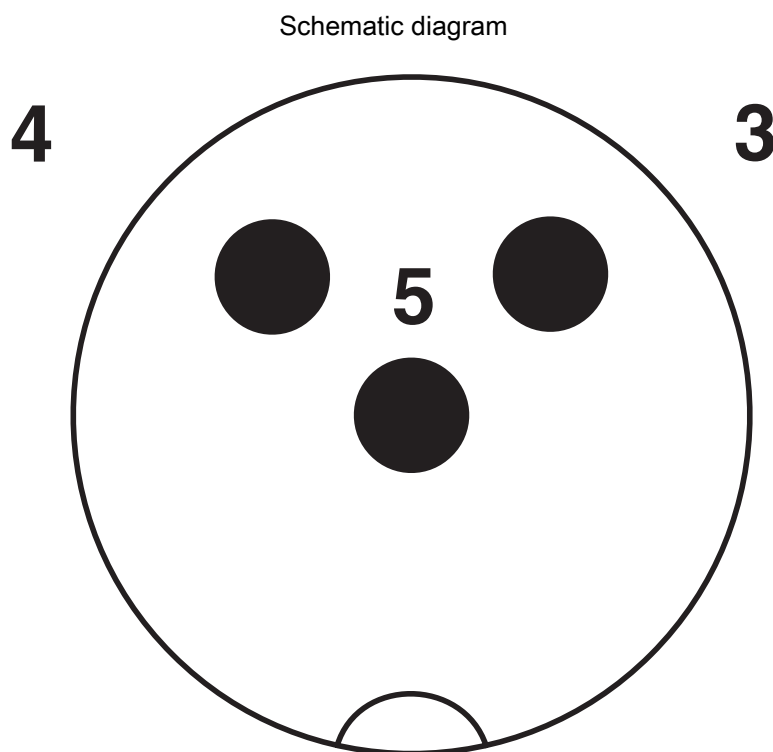
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Valve connector, type BI, side view

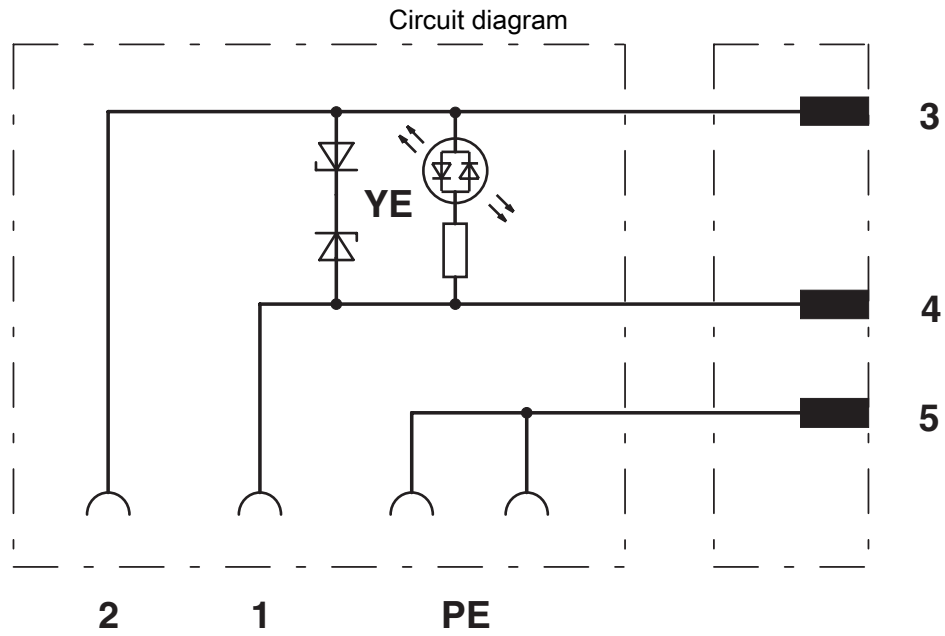


Pin assignment M12 plug, 3-pos., valve connector

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Contact assignment of M12 plug and valve connector

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060312 |
| ECLASS-15.0 | 27060312 |

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Environmental product compliance

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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