

Sensor/actuator cable - SAC-3P-M12MS/2,0-PUR/BI-1L-Z - 1438626

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on Valve connector BI (11 mm), with 1 LED, connected with Z diode, connected with Z diode, cable length: 2 m

The figure shows the SPEEDCON version

Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 STK |
| Minimum order quantity | 25 STK |
| GTIN |  4 046356 496667 |
| GTIN | 4046356496667 |
| Weight per Piece (excluding packing) | 80.000 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| | -20 °C ... 85 °C (valve plug) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|-----|
| Rated current at 40°C | 4 A |
|-----------------------|-----|

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Technical data

General

| | |
|------------------------------|-------------------------------|
| Rated voltage | 24 V AC |
| | 24 V DC |
| Number of positions | 3 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| | Valve connector EN 175301-803 |
| Status display | 1 LED |
| Protective circuit/component | Z diode |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

Material

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | HB |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU |
| Valve plug contact material | CuSn |
| Valve plug contact surface material | Sn |
| Valve plug contact insert material | PA 66 |
| Material housing valve plug | TPU |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | TPU (Seal molded) |

Standards and Regulations

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Standard designation | Valve connector |
| Standards/regulations | EN 175301-803 |
| Flammability rating according to UL 94 | HB |

Cable

| | |
|---------------------------|------------------------|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | Li9Y11Y-HF |
| UL AWM style | 20549 |
| Conductor cross section | 3x 0.5 mm ² |

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Technical data

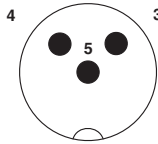
Cable

| | |
|---|--|
| AWG signal line | 20 |
| Conductor structure signal line | 28x 0.15 mm |
| Core diameter including insulation | 1.5 mm ±0.05 mm (Signal line) |
| Wire colors | black 1, black 2, green/yellow |
| Overall twist | 3 wires, twisted |
| External sheath, color | black-gray RAL 7021 |
| External cable diameter D | 4.5 mm ±0.2 mm |
| Smallest bending radius, fixed installation | 22.5 mm |
| Number of bending cycles | 15000000 |
| Bending radius | 50 mm |
| Traversing path | 0.9 m |
| Traversing rate | 5 m/s |
| Acceleration | 30 m/s ² |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | min. 20 MΩ*km |
| Conductor resistance | 39 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V |
| Test voltage, cable | ≥ 1200 V |
| Flame resistance | According to DIN VDE 0482 |
| | According to DIN EN 50265-2-1 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Other resistance | largely oil-resistant |
| | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (cable, flexible installation) |

Drawings

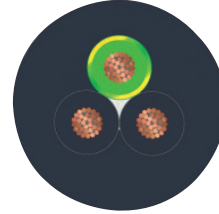
Sensor/actuator cable - SAC-3P-M12MS/2,0-PUR/BI-1L-Z - 1438626

Schematic diagram



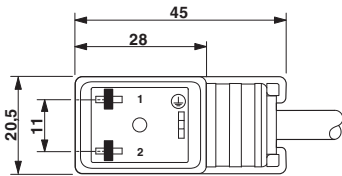
Pin assignment M12 plug, 3-pos., valve connector

Cable cross section



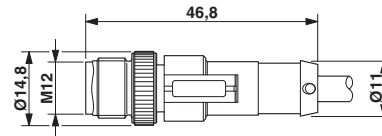
PUR halogen-free black [PUR]

Dimensional drawing



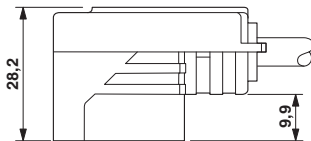
Valve connector, type BI

Dimensional drawing



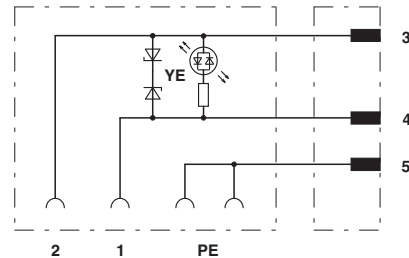
Plug, M12 x 1, straight, shielded

Dimensional drawing



Valve connector, type BI, side view

Circuit diagram



Contact assignment of M12 plug and valve connector

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |

UNSPSC

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

Approvals


Approvals

Approvals

CSAus

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|-------|
| CSAus |  | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
| Nominal current IN | | 4 A | |
| Nominal voltage UN | | 24 V | |

Accessories

Accessories

Mounting material

Sensor/actuator cable - SAC-3P-M12MS/2,0-PUR/BI-1L-Z - 1438626

Accessories

Screw - SAC-V-SCREW-M3-29 KNURL - 1403779



Fillister head screw with plastic knurl, M3 x 40