

## Sensor/Actuator cable - SAC-3P-M12MR/1,5-PUR/BI-1L-S - 1669330

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Sensor/Actuator cable, 3-position, PUR/PVC, Black RAL 9005, Plug angled M12, A-coded, on Valve connector BI (11 mm), with 1 LED, connected with Z diode, Cable length: 1.5 m



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 1        |
| Weight per Piece (excluding packing) | 114.39 GRM |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Germany    |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 1.5 m |
|-----------------|-------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
|                                 | -20 °C ... 80 °C (valve plug)    |
| Degree of protection            | IP67                             |

#### General

|                              |              |
|------------------------------|--------------|
| Rated current at 40°C        | 4 A          |
| Rated voltage                | 24 V         |
| Number of positions          | 3            |
| Contact resistance           | ≤ 5 mΩ       |
| Insulation resistance        | ≥ 100 MΩ     |
| Coding                       | A - standard |
| Status display               | 1 LED        |
| Protective circuit/component | Z diode      |
| Surge voltage category       | II           |

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### Technical data

#### General

|                             |       |
|-----------------------------|-------|
| Pollution degree            | 3     |
| Insertion/withdrawal cycles | ≥ 100 |

#### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | HB  |
| Contact material                        | CuSn  |
| Contact surface material                | Ni/Au                                       |
| Contact carrier material                | TPU GF                                      |
| Material of grip body                   | TPU, hardly inflammable, self-extinguishing |
| Valve plug contact material             | CuSn  |
| Valve plug contact surface material     | Ag  |
| Valve plug contact insert material      | PBT   |
| Material housing valve plug             | PBT   |
| Sealing material                        | TPU (Flat gasket valve plug)                |

#### Cable

|   |  |
|---|--|
| Cable type                                    | PUR/PVC black                                |
| Cable abbreviation                            | LiYY11Y-JZ                                   |
| Conductor cross section                       | 0.75 mm <sup>2</sup>                         |
| AWG signal line                               | 18   |
| Conductor structure signal line               | 42x 0.15 mm                                  |
| Core diameter including insulation            | approx. 1.8 mm                               |
| Thickness, insulation                         | approx. 0.34 mm (Core insulation)            |
|   | approx. 0.35 mm (Outer cable sheath)         |
|   | approx. 0.3 mm (Inner sheath)                |
| Wire colors                                   | black 1, black 2, green/yellow               |
| Overall twist                                 | 3 concentrically twisted wires               |
| External sheath, color                        | Black RAL 9005                               |
| External cable diameter                       | 5.90 mm                                      |
| Smallest bending radius, movable installation | 59 mm  |
| Outer sheath, material                        | PUR  |
| Material, inner sheath                        | PVC  |
| Material conductor insulation                 | PVC  |
| Conductor material                            | Bare Cu litz wires                           |
| Insulation resistance                         | ≥ 1 MΩ*km                                    |
| Nominal voltage, cable                        | 300 V  |
| Test voltage, cable                           | 2000 V                                       |
| Ambient temperature (operation)               | -30 °C ... 70 °C (cable, fixed installation) |

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## Technical data

### Cable

|  |  |
|--|--|
|  | -5 °C ... 70 °C (cable, flexible installation) |
|--|--|

## 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 |
| eCl@ss 8.0 | 27061801 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

### UNSPSC

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

## Approvals

### Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

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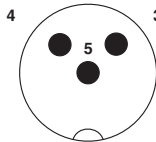
## Approvals

### Approval details



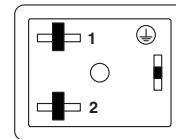
## Drawings

Schematic diagram



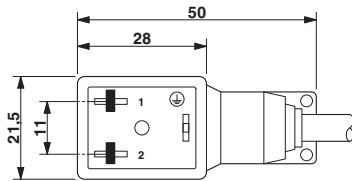
Pin assignment M12 plug, 3-pos., valve connector

Schematic diagram



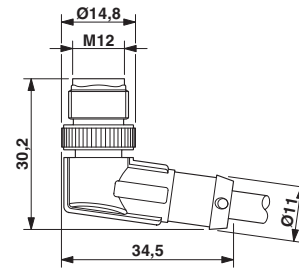
Valve connector pin assignment, type BI

Dimensioned drawing



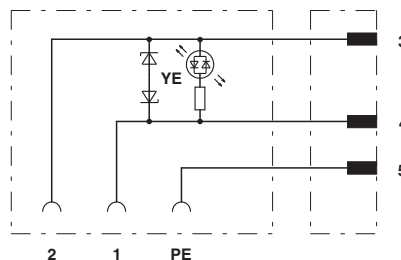
Valve connector, type BI

Dimensioned drawing



M12 x 1 male plug, angled

Circuit diagram



Contact assignment of M12 plug and valve connector

