

# SAC-3P-M12MR/0,3-PUR/BI-1L-S

Order No.: 1669314



Sensor/Actuator cable, 3-position, PUR/PVC, Black RAL 9005, Plug, angled M12, A-coded, on Valve plug type B (11 mm), with 1 LED, connected with Z diode, Cable length: 0.3 m

## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 136758 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 90 (PC-2007)                                                                                     |

## Product notes

WEEE/RoHS-compliant since:  
2006-08-28



## Technical data

### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 24 V                       |
| Number of positions   | 3                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 0.3 m                      |

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |
|                                 | -20 °C ... 80 °C (valve plug)                        |

**General characteristics**

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| Coding                             | A - standard                                |
| Surge voltage category             | II                                          |
| Pollution degree                   | 3                                           |
| Degree of protection               | IP67                                        |
| Insertion/withdrawal cycles        | ≥ 100                                       |
| Contact material                   | CuSn                                        |
| Contact surface material           | Ni/Au                                       |
| Contact carrier material           | TPU GF                                      |
| Material of grip body              | TPU, hardly inflammable, self-extinguishing |
| Contact material                   | CuSn                                        |
| Contact surface material           | Ag                                          |
| Valve plug contact insert material | PBT                                         |
| Material, housing, valve plug      | PBT                                         |
| Sealing material                   | TPU (Flat gasket valve plug)                |
| Status display                     | 1 LED                                       |
| Protective circuit/component       | Z diode                                     |

**Conductor data**

|                                    |                                      |
|------------------------------------|--------------------------------------|
| 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)        |
| External cable diameter            | 5.90 mm                              |
| Wire colors                        | Black 1, black 2, green/yellow       |
| External sheath, color             | Black RAL 9005                       |
| Insulation resistance              | ≥ 1 MΩ*km                            |
| Nominal voltage, conductor         | 300 V                                |

|                                               |                                                |
|-----------------------------------------------|------------------------------------------------|
| Test voltage, conductor                       | 2000 V                                         |
| Overall twist                                 | 3 concentrically twisted wires                 |
| Outer sheath, material                        | PUR                                            |
| Material, inner sheath                        | PVC                                            |
| Material conductor insulation                 | PVC                                            |
| Conductor material                            | Bare Cu litz wires                             |
| Smallest bending radius, movable installation | 59 mm                                          |
| Ambient temperature (operation)               | -30 °C ... 70 °C (cable, fixed installation)   |
|                                               | -5 °C ... 70 °C (cable, flexible installation) |

## Certificates

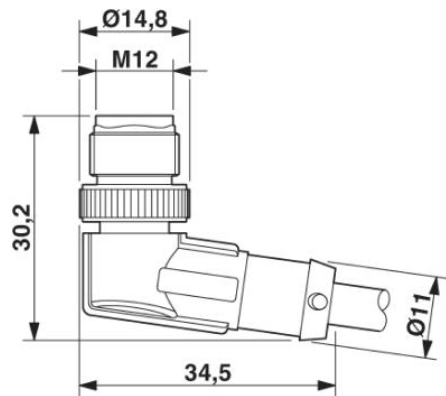


Certification

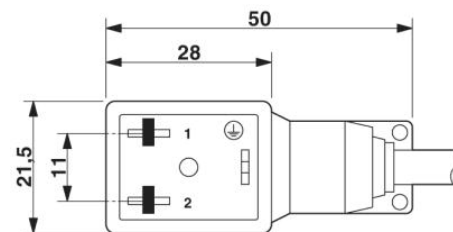
GOST

## Drawings

Dimensioned drawing

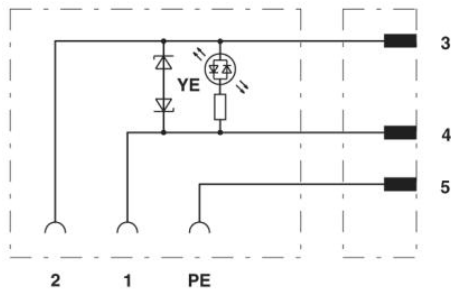


M12 x 1 male connector, angled



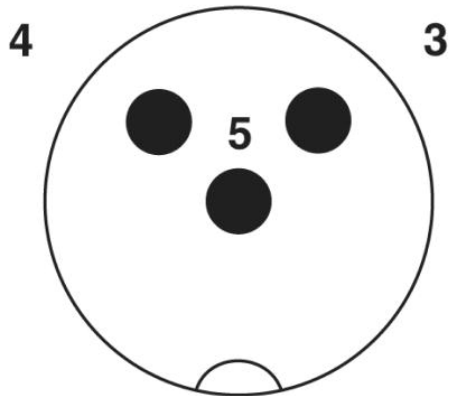
Valve connector, type BI

### Circuit diagram

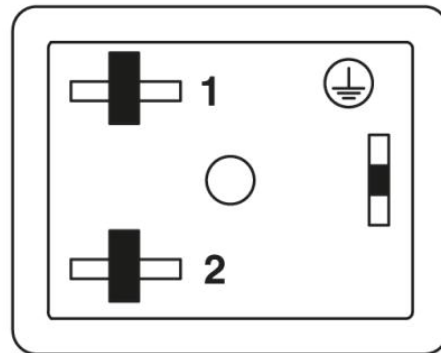


Contact assignment of M12 plug and valve connector

### Schematic diagram



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



Valve connector pin assignment, type BI