

## Sensor/Actuator cable - SAC-3P- 1,5-PUR/BI-1L-S F - 1669945

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Sensor/Actuator cable, 3-position, PUR/PVC, Gray RAL 7001, free cable end, on Valve connector BI (11 mm), with 1 LED, connected with Z diode, Cable length: 1.5 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector with Zener diode as protective circuit
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ Compact: flat design for applications where space is at a premium



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 pc       |
| Weight per Piece (excluding packing) | 107.26 GRM |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Germany    |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 1.5 m |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                                 |                               |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -20 °C ... 80 °C (valve plug) |
| Degree of protection            | IP65                          |
|                                 | IP67                          |
|                                 | IP68                          |

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 3 A  |
| Rated voltage         | 24 V |

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### Technical data

#### General

|                              |          |
|------------------------------|----------|
| Number of positions          | 3        |
| Contact resistance           | ≤ 15 mΩ  |
| Insulation resistance        | ≥ 100 MΩ |
| Status display               | 1 LED    |
| Protective circuit/component | Z diode  |
| Surge voltage category       | II       |
| Pollution degree             | 3        |

#### Material

|   |                              |
|---|------------------------------|
| Inflammability class according to UL 94 | V0                           |
| 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 gray                         |
| Cable type (abbreviation)                     | 100                                  |
| Cable abbreviation                            | LiYY11Y-JZ                           |
| Conductor cross section                       | 0.75 mm <sup>2</sup>                 |
| AWG signal line                               | 18                                   |
| Conductor structure signal line               | 24x 0.20 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       |
| Length of twist, overall twist                | 83 mm                                |
| External sheath, color                        | Gray RAL 7001                        |
| External cable diameter                       | 5.20 mm                              |
| Smallest bending radius, movable installation | 62 mm                                |
| Outer sheath, material                        | PUR                                  |
| Material, inner sheath                        | PVC                                  |
| Material conductor insulation                 | PVC                                  |
| Conductor material                            | Bare Cu litz wires                   |
| Insulation resistance                         | ≥ 1 MΩ*km                            |

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## Technical data

### Cable

|                                 |  |
|---------------------------------|--|
| Nominal voltage, cable          | 240 V  |
| Test voltage, cable             | 2000 V   |
| Ambient temperature (operation) | -30 °C ... 80 °C (cable, fixed installation)   |
|                                 | -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

UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals

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## Approvals

Approvals submitted

### Approval details

UL Listed

|                                |      |
|--------------------------------|------|
| Nominal current I <sub>N</sub> | 4 A  |
| Nominal voltage U <sub>N</sub> | 24 V |

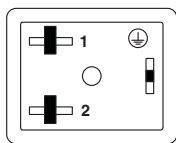
cUL Listed

|                                |      |
|--------------------------------|------|
| Nominal current I <sub>N</sub> | 4 A  |
| Nominal voltage U <sub>N</sub> | 24 V |

cULus Listed

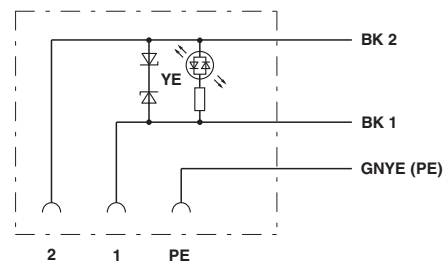
## Drawings

Schematic diagram



Valve connector pin assignment, type BI

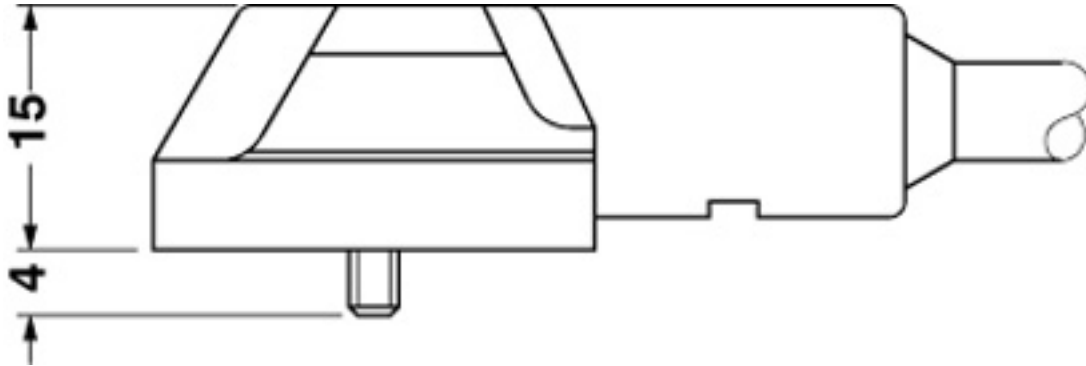
Circuit diagram



Contact assignment of the valve plug

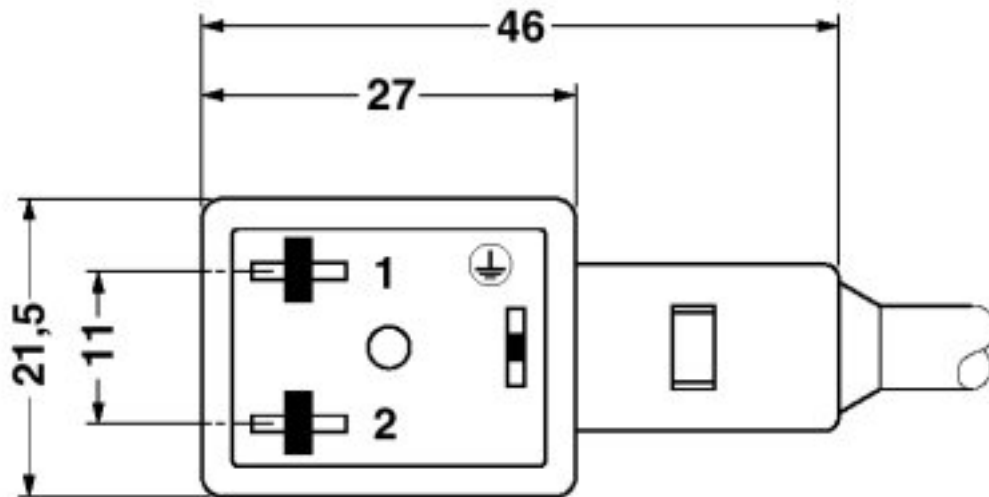
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Dimensioned drawing



Valve connector, type BI, flat

Dimensioned drawing



Valve connector, type BI, flat