

## SAC-3P- 1,5-PUR/BI-1L-V

Order No.: 1443187



Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray  
RAL 7021, Free conductor end, on Type-BI valve plug, with 1 LED,  
connected with Varistor, Cable length: 1.5 m

### Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 530996 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 123 (NTK-2010)                                                                                   |

### Product notes

WEEE/RoHS-compliant since:  
2010-01-05



### Technical data

#### General data

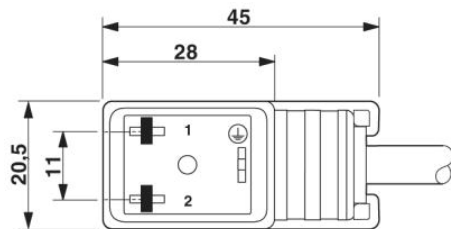
|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 24 V                       |
| Number of positions   | 3                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 1.5 m                      |

|                                             |                                |
|---------------------------------------------|--------------------------------|
| Ambient temperature (operation)             | -20 °C ... 85 °C (valve plug)  |
| <b>General characteristics</b>              |                                |
| Surge voltage category                      | III                            |
| Pollution degree                            | 3                              |
| Degree of protection                        | IP65/IP67                      |
| Contact material                            | CuSn                           |
| Contact surface material                    | Sn                             |
| Valve plug contact insert material          | PA 66                          |
| Material, housing, valve plug               | TPU                            |
| Sealing material                            | TPU (Seal molded)              |
| Status display                              | 1 LED                          |
| Protective circuit/component                | Varistor                       |
| <b>Conductor data</b>                       |                                |
| Cable type                                  | PUR halogen-free black         |
| Cable type (abbreviation)                   | PUR                            |
| Cable abbreviation                          | Li9Y11Y-HF                     |
| Conductor cross section                     | 0.5 mm <sup>2</sup>            |
| AWG signal line                             | 20                             |
| Conductor structure signal line             | 28x 0.15 mm                    |
| Core diameter including insulation          | 1.5 mm ±0.05 mm                |
| External cable diameter                     | 4.50 mm                        |
| Wire colors                                 | Black 1, black 2, green/yellow |
| External sheath, color                      | Black-gray RAL 7021            |
| Insulation resistance                       | ≥ 20 MΩ*km                     |
| Conductor resistance                        | ≤ 39 Ω/km                      |
| Nominal voltage, conductor                  | ≤ 300 V                        |
| Test voltage, conductor                     | 1200 V                         |
| Overall twist                               | 3 wires, twisted               |
| Outer sheath, material                      | PUR                            |
| Material conductor insulation               | PP                             |
| Conductor material                          | Bare Cu litz wires             |
| Cable weight                                | 30 kg/km                       |
| Smallest bending radius, fixed installation | 22.5 mm                        |
| Number of bending cycles                    | 4000000                        |

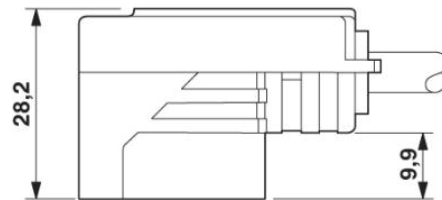
|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Bending radius                  | 45 mm                                                               |
| Traversing path                 | 10 m                                                                |
| Traversing rate                 | 3 m/s                                                               |
| Acceleration                    | 10 m/s <sup>2</sup>                                                 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -20 °C ... 80 °C (cable, flexible installation)                     |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free                                                       |
|                                 | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                | in accordance with DIN UL-Style 20549                               |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                            |
| Resistance to oil               | in accordance with DIN EN 60811-2-1                                 |
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents          |
|                                 | hydrolysis and microbe resistant                                    |

## Drawings

### Dimensioned drawing

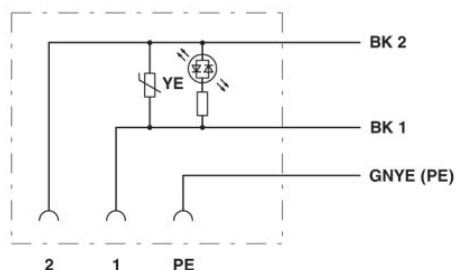


Valve connector, type BI



Valve connector, type BI, side view

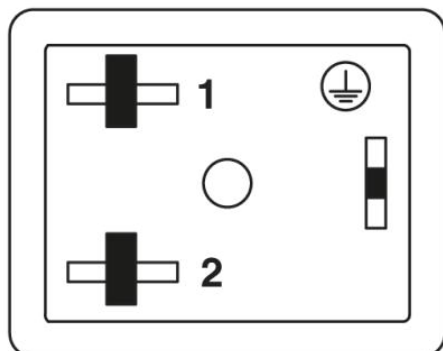
### Circuit diagram



Contact assignment of the valve plug

Schematic diagram

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Valve connector pin assignment, type BI