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## SAC-3P- 3,0-PUR/CI-1L-Z

Order No.: 1435690



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1435690>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Valve plug C (9,4 mm), with 1 LED, connected with Z diode, Cable length: 3 m

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| GTIN (EAN)               | 4046356413930      |
| sales group              | D115               |
| Pack                     | 1 pcs.             |
| Customs tariff           | 85444290           |
| Weight/Piece             | 0.1037 KG          |
| Catalog page information | Page 106 (PC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
04/15/2009



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### General data

|                       |        |
|-----------------------|--------|
| Rated current at 40°C | 4 A    |
| Rated voltage         | 24 V   |
| Number of positions   | 3      |
| Volume resistance     | ≤ 5 mΩ |

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|                                            |                               |
|--------------------------------------------|-------------------------------|
| Insulation resistance                      | $\geq 100 \text{ M}\Omega$    |
| Length of cable                            | 3 m                           |
| Stripping length of the free conductor end | 50 mm                         |
| Ambient temperature (operation)            | -20 °C ... 85 °C (valve plug) |

#### General characteristics

|                                    |                   |
|------------------------------------|-------------------|
| 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       | Z diode           |

#### Conductor data

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| 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 $\pm 0.05 \text{ mm}$              |
| External cable diameter            | 4.50 mm                                   |
| Wire colors                        | Black 1, black 2, green/yellow            |
| External sheath, color             | Black-gray RAL 7021                       |
| Insulation resistance              | $\geq 20 \text{ M}\Omega \cdot \text{km}$ |
| Conductor resistance               | $\leq 39 \text{ }\Omega/\text{km}$        |
| Nominal voltage, conductor         | $\leq 300 \text{ V}$                      |
| Test voltage, conductor            | 1200 V                                    |
| Overall twist                      | 3 wires, twisted                          |
| Outer sheath, material             | PUR                                       |
| Material conductor insulation      | PP                                        |
| Conductor material                 | Bare Cu litz wires                        |

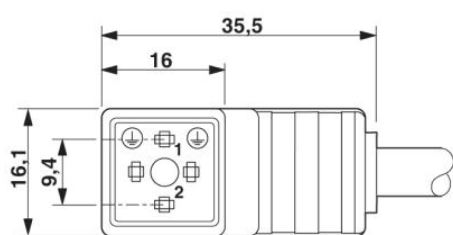
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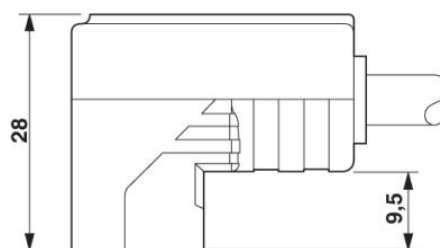
|                                             |                                                                                                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 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)<br>-20 °C ... 80 °C (cable, flexible installation)                        |
| Special properties                          | Flexible cable conduit capable<br>Silicone-free<br>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<br>hydrolysis and microbe resistant                         |

## Diagrams/Drawings

Dimensioned drawing



Valve connector, type CI

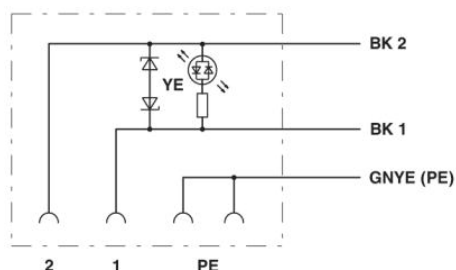


Valve connector, type CI, side view

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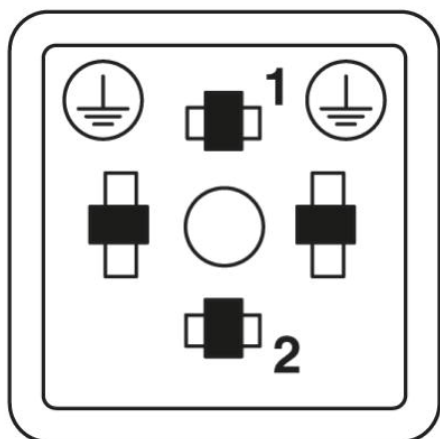
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#### Circuit diagram

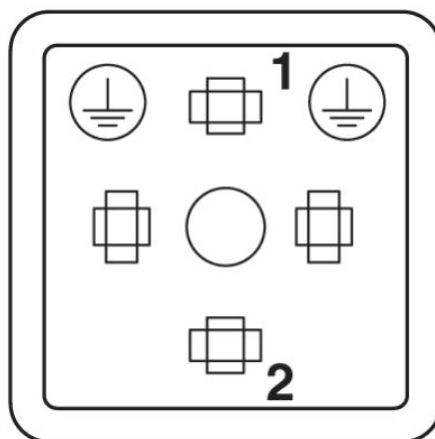


#### Contact assignment of the valve plug

#### Schematic diagram



Valve connector connector pin assignment, type CI



Valve connector connector pin assignment, type CI

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