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## Sensor/Actuator cable - SAC-5P- 1,5-PUO/AD-2L OD - 1407291

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Sensor/Actuator cable, 5-position, PUR halogen-free, black RAL 9005, free cable end, on Valve connector AD (pressure switch), with 2 LEDs, Cable length: 1.5 m, for outdoor applications, With stainless steel central screw and additional silicone seal (red)

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector without protective circuit
- ✓ Corrosion protection for all exposed metal parts, thanks to the use of stainless steel type 1.4404
- ✓ Robust throughout: resistant to oil, UV, and ozone, withstands temperatures from -20°C to +85°C



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 774093 |
| GTIN         | 4046356774093   |

### Technical data

#### Dimensions

|                               |         |
|-------------------------------|---------|
| Length of cable               | 1.5 m   |
| Central screw valve connector | M3 x 29 |

#### Ambient conditions

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C (valve plug)     |
| Degree of protection            | IP65                              |
|                                 | IP66K (Observe tightening torque) |
|                                 | IP67                              |
|                                 | IP68                              |

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 4 A  |
| Rated voltage         | 24 V |

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## Technical data

### General

|                              |                                     |
|------------------------------|-------------------------------------|
| Number of positions          | 5                                   |
| Insulation resistance        | ≥ 100 MΩ                            |
| Standards/regulations        | Valve connector EN 175301-803       |
| Status display               | 2 LEDs                              |
| Protective circuit/component | Unwired                             |
| Overvoltage category         | III                                 |
| Degree of pollution          | 3                                   |
| Torque                       | 0.6 Nm ... 0.8 Nm (Valve connector) |
| Tightening torque            | 0.8 Nm for IP66K                    |

### Material

|  |                           |
|--|---------------------------|
| Flammability rating according to UL 94 | V0                        |
| Valve plug contact material            | CuSn                      |
| Valve plug contact surface material    | Sn                        |
| Valve plug contact insert material     | PA 6                      |
| Material housing valve plug            | TPU                       |
| Sealing material                       | TPU (Seal molded)         |
|  | Silicon (Seal snapped in) |

### Standards and Regulations

|  |                 |
|--|-----------------|
| Standard designation                   | Valve connector |
| Standards/regulations                  | EN 175301-803   |
| Flammability rating according to UL 94 | V0              |

### Cable

|   |  |
|---|--|
| Cable type                                    | PUR halogen-free black                           |
| Cable type (abbreviation)                     | PUO  |
| Cable abbreviation                            | Li9Y11Y  |
| Conductor cross section                       | 5x 0.5 mm <sup>2</sup>                           |
| AWG signal line                               | 20   |
| Conductor structure signal line               | 16x 0.20 mm                                      |
| Core diameter including insulation            | 2 mm ±0.05 mm                                    |
| Wire colors                                   | Black 1, black 2, black 3, black 4, green/yellow |
| Overall twist                                 | 5 cores, twisted                                 |
| External sheath, color                        | black RAL 9005                                   |
| External cable diameter D                     | 6.9 mm ±0.1 mm                                   |
| Minimum bending radius, fixed installation    | 10 x D   |
| Minimum bending radius, flexible installation | 15 x D   |
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | PP   |
| Conductor material                            | Tin-plated Cu litz wires                         |
| Insulation resistance                         | 70 GΩ*km   |

# Sensor/Actuator cable - SAC-5P- 1,5-PUO/AD-2L OD - 1407291

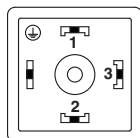
## Technical data

### Cable

|                                 |  |
|---------------------------------|--|
| Conductor resistance            | ≤ 40.1 Ω/km                                      |
| Nominal voltage, cable          | 300 V  |
| Test voltage Core/Core          | 3000 V (Spark test)                              |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815         |
|                                 | According to EN 50267-2-1                        |
| Resistance to oil               | According to DIN EN 50306                        |
|                                 | According to DIN EN 60811-2-1, 138 h at 100°C    |
| Other resistance                | UV resistant                                     |
|                                 | hydrolysis and microbe resistant                 |
|                                 | Good resistance to aggressive media              |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)    |
|                                 | -15 °C ... 105 °C (cable, flexible installation) |

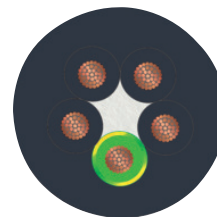
## Drawings

Schematic diagram



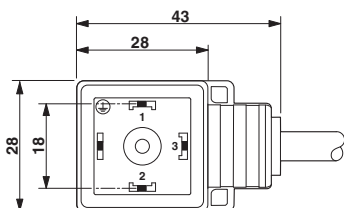
Valve plug connector pin assignment, type AD

Cable cross section



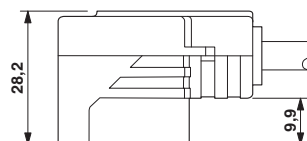
PUR halogen-free black [PUO]

Dimensional drawing



Valve connector, type AD

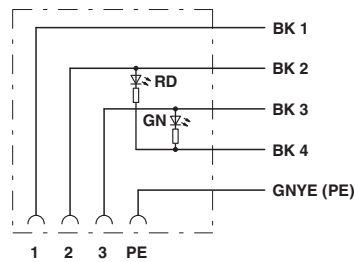
Dimensional drawing



Valve connector, type AD, side view

# Sensor/Actuator cable - SAC-5P- 1,5-PUO/AD-2L OD - 1407291

Circuit diagram



Contact assignment of the valve plug

## Approvals

Approvals

Approvals

CSAus

Ex Approvals

## Approval details

|                                |  |   |       |
|--------------------------------|--|---|-------|
| CSAus                          |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
| Nominal current I <sub>N</sub> |  | 6 A   |       |
| Nominal voltage U <sub>N</sub> |  | 24 V  |       |

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