

Sensor/actuator cable - SAC-3P- 3,0-PUO/A-1L-Z OD - 1407288

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Sensor/actuator cable, 3-position, PUR halogen-free, black RAL 9005, free cable end, on Valve connector A, with 1 LED, connected with Z diode, cable length: 3 m, for outdoor applications, With stainless steel central screw and additional silicone seal (red)

Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector with Zener diode as 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
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 774062 |
| GTIN | 4046356774062 |

Technical data

Dimensions

| | |
|-------------------------------|---------|
| Length of cable | 3 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 AC |

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Technical data

General

| | |
|------------------------------|-------------------------------------|
| | 24 V DC |
| Number of positions | 3 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Standards/regulations | Valve connector EN 175301-803 |
| Status display | 1 LED |
| Protective circuit/component | Z diode |
| 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 6.6 |
| Material housing valve plug | TPU |
| Sealing material | TPU (Seal molded) |
| | Silicon (Seal snapped in) |

Standards and Regulations

| | |
|--|-------------------------------|
| Standards/specifications | Valve connector 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 | 3x 0.5 mm ² |
| 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, green/yellow |
| Overall twist | 3 wires, twisted |
| External sheath, color | black RAL 9005 |
| External cable diameter D | 5.9 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 |

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Technical data

Cable

| | |
|---------------------------------|--|
| Insulation resistance | 70 GΩ*km |
| 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) |

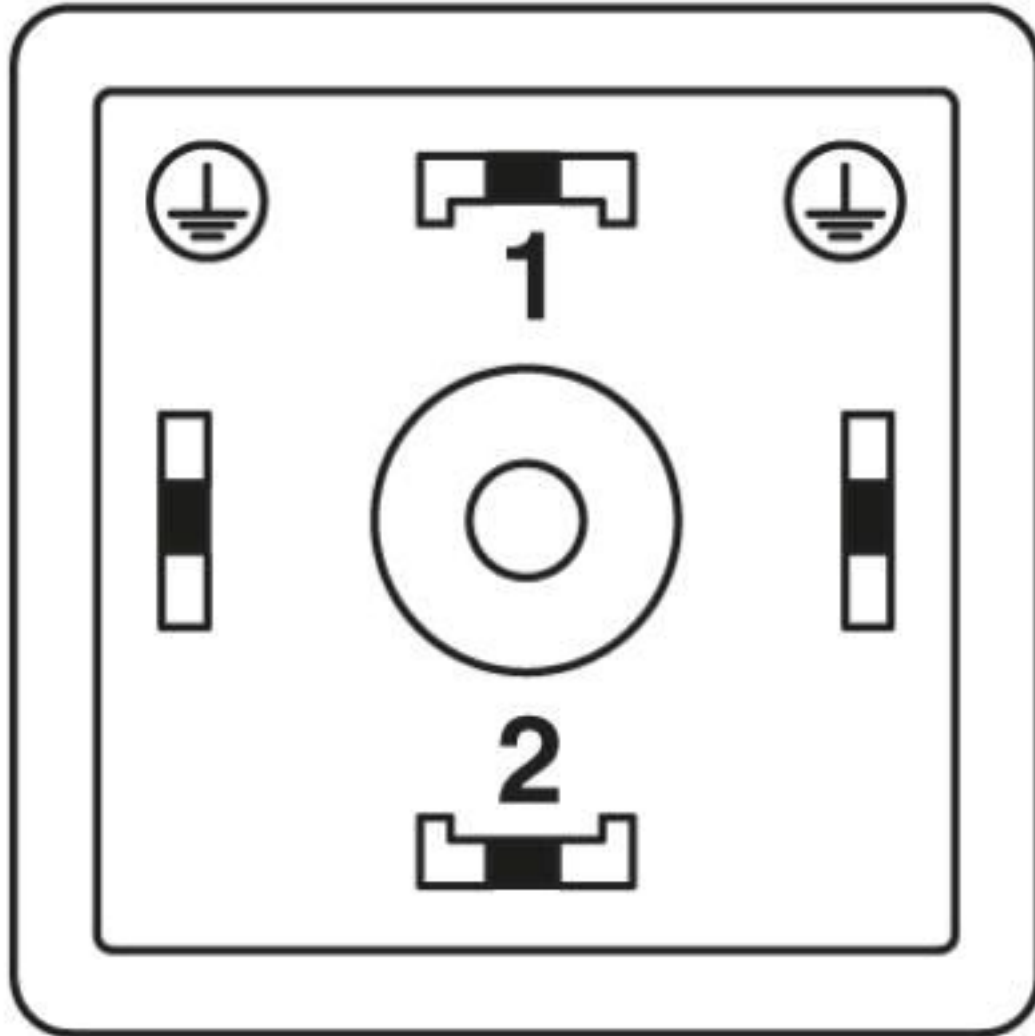
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Sensor/actuator cable - SAC-3P- 3,0-PUO/A-1L-Z OD - 1407288

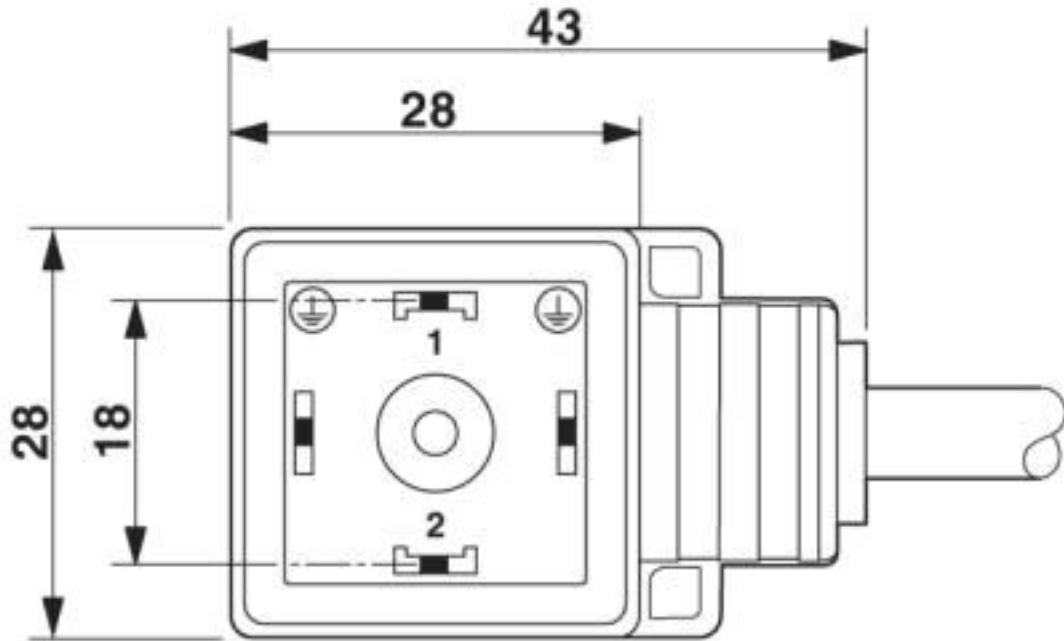
Schematic diagram



Valve connector pin assignment, type A

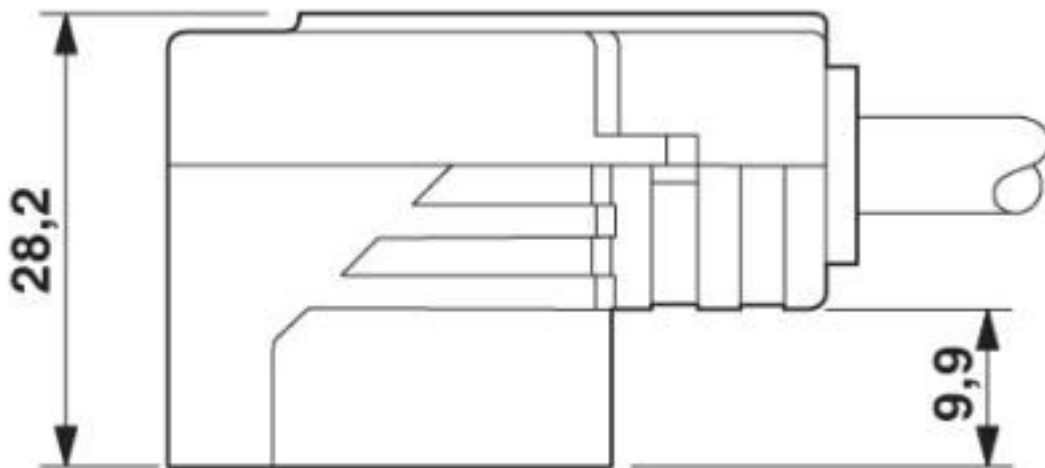
Sensor/actuator cable - SAC-3P- 3,0-PUO/A-1L-Z OD - 1407288

Dimensional drawing



Valve connector, type A

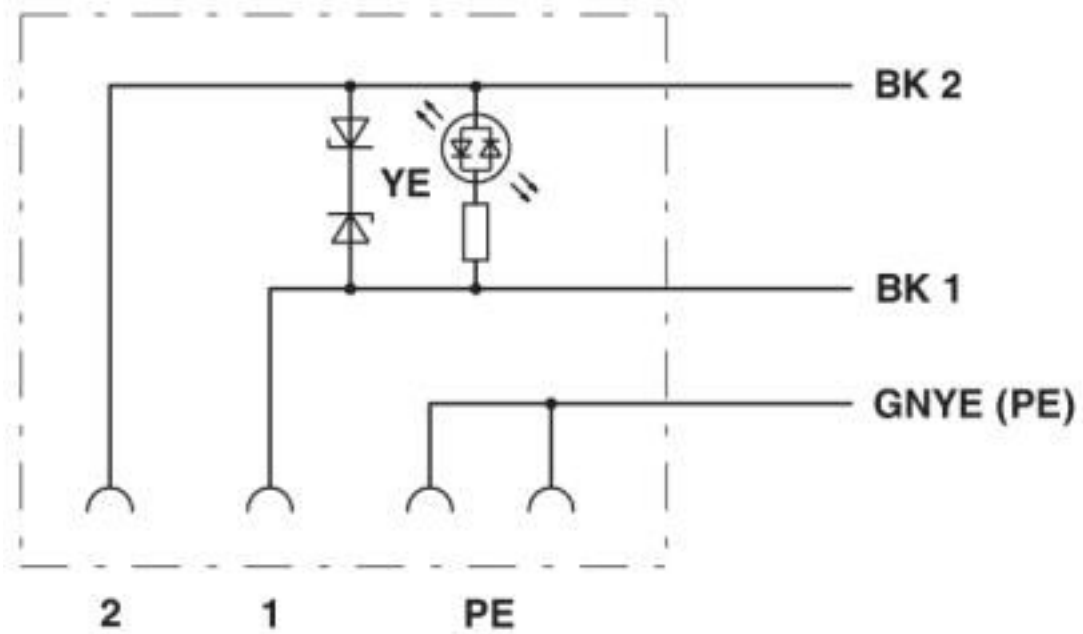
Dimensional drawing



Valve connector, type A, side view

Sensor/actuator cable - SAC-3P- 3,0-PUO/A-1L-Z OD - 1407288

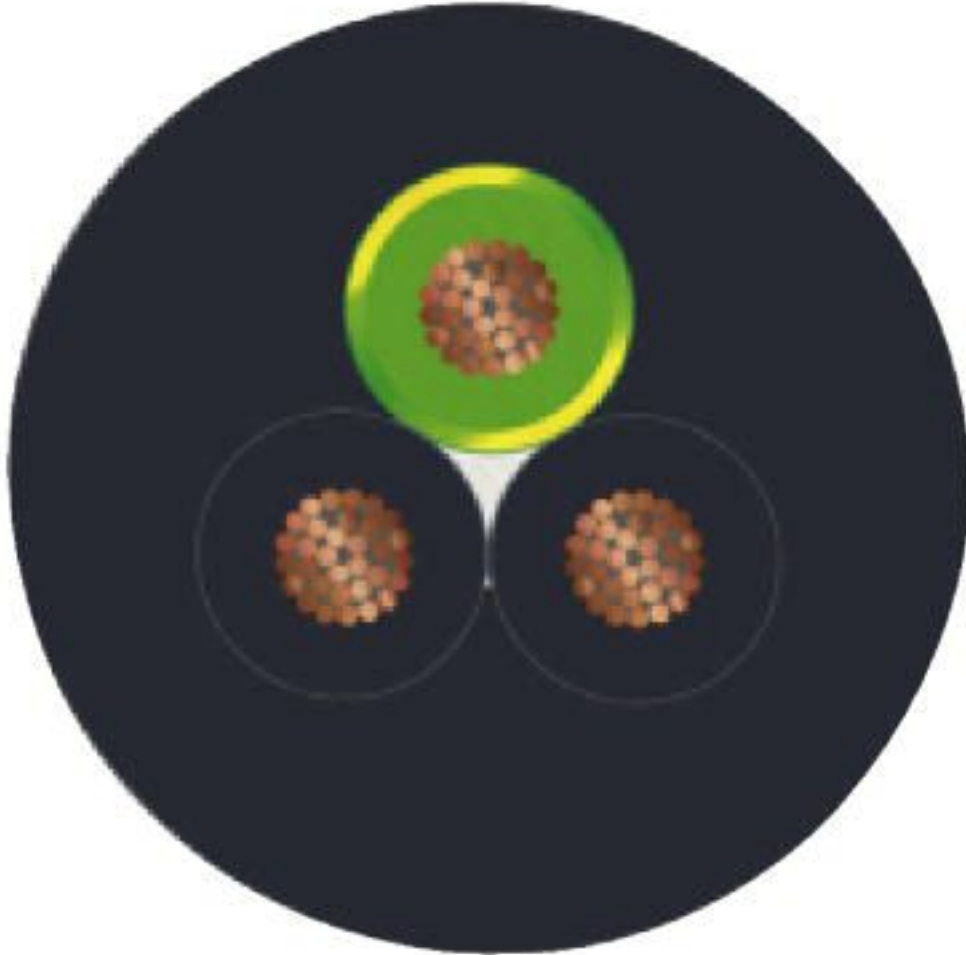
Circuit diagram



Contact assignment of the valve plug

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Cable cross section



PUR halogen-free black [PUO]

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27060312 |
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060312 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |
| UNSPSC 20.0 | 31251501 |
| UNSPSC 21.0 | 31251501 |

Approvals


Approvals

Approvals

CSAus / EAC-RoHS / EAC

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|-------|
| CSAus |  | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
| Nominal voltage UN | 24 V | | |
| Nominal current IN | 4 A | | |

| | | |
|----------|---|--------------------------|
| EAC-RoHS |  | RU D- DE.HB35.B.00387 |
|----------|---|--------------------------|

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Approvals

EAC



RU C-
DE.BL08.B.00286

Accessories

Accessories

Seal

Seal - SAC-VP-SEAL-SIL/RD OD - 1410695



Seal set for valve connectors A and AD, for outdoor applications, consisting of silicone seal and latching

Torque tool

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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