# SAC-3P-10,0-PUR/A-1L-Z 110V - Sensor/actuator cable

1440685

https://www.phoenixcontact.com/us/products/1440685

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The figure shows the 24 V version.

Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 10 m

## Commercial data

| | |
|---|---|
| Item number | 1440685 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF07 |
| Product key | AF1DAA |
| GTIN | 4046356505437 |
| Weight per piece (including packing) | 326.1 g |
| Weight per piece (excluding packing) | 313.2 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable with valve connector |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |

### Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Seal material | TPU (Seal molded) |
| Material housing valve plug | TPU |
| Contact material | CuSn |
| Valve plug contact insert material | PA 6.6 |
| Contact surface material | Sn |

## Electrical properties

| | |
|---|---|
| Nominal voltage $U_N$ | 110 V AC |
| | 110 V DC |
| Nominal current $I_N$ | 1 A |

## Signaling

| | |
|---|---|
| Status display | 1 LED |
| Status display present | yes |

## Connector

### Connection 1

| | |
|---|---|
| Type | free cable end |

### Connection 2

| | |
|---|---|
| Type | Valve connector A |
| Material | CuSn (Contact) |
| | Sn (Contact surface) |
| | PA 6.6 (Contact carrier) |
| | TPU (Housing) |
| Protective circuit | Z diode |

## Cable/line

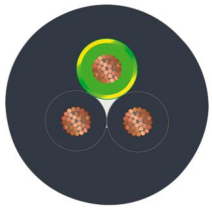
| | |
|---|---|
| Cable length | 10 m |

PUR halogen-free black [PUR]

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| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 30 kg/km |
| UL AWM Style | 20549 |
| Number of positions | 3 |
| Shielded | no |
| Cable type | PUR halogen-free black [PUR] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor cross-section | 3x 0.5 mm² |
| Wire diameter incl. insulation | 1.5 mm ±0.05 mm (Signal line) |
| External cable diameter | 4.50 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | black-gray RAL 7021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | black 1, black 2, green/yellow |
| Overall twist | 3 wires, twisted |
| Max. conductor resistance | 39 Ω/km (at 20 °C) |
| Insulation resistance | min. 20 MΩ*km |
| Nominal voltage, cable | ≤ 300 V |
| Test voltage | ≥ 1200 V |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 22.5 mm |
| Smallest bending radius, movable installation | 45 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s² |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Flame resistance | according to DIN VDE 0482 |
| | According to DIN EN 50265-2-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | largely oil-resistant |
| | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

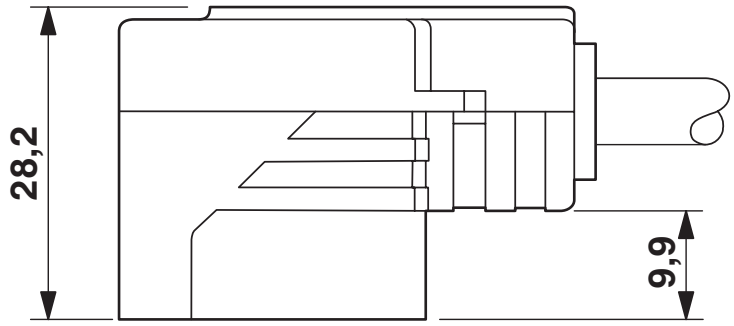
| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -20 °C ... 85 °C (Valve connector) |

## Standards and regulations

| | |
|---|---|
| Standard designation | Valve connector |
| Standards/specifications | EN 175301-803 |

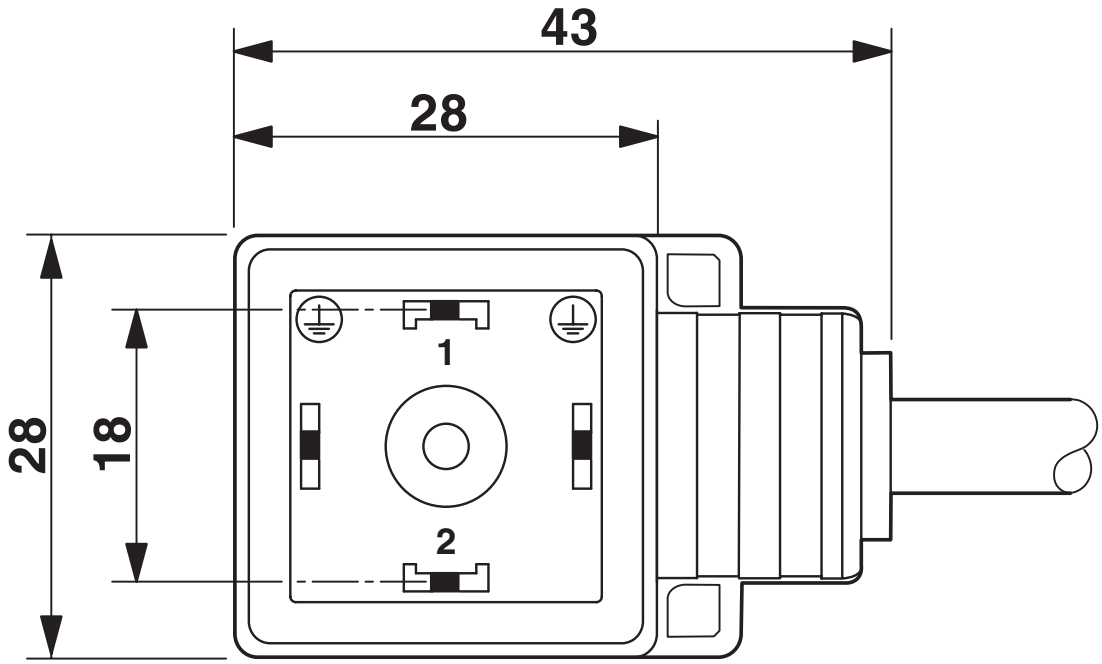
## Drawings

Dimensional drawing



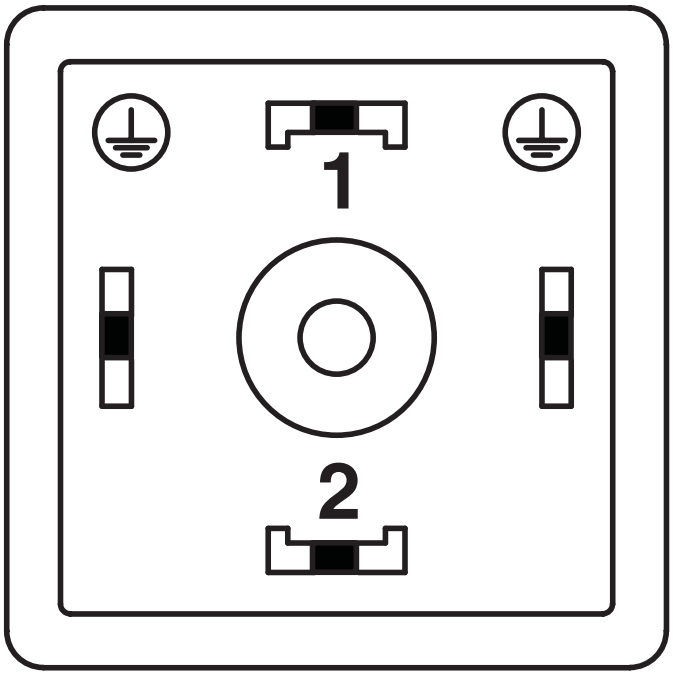

Valve connector, type A, side view

Dimensional drawing



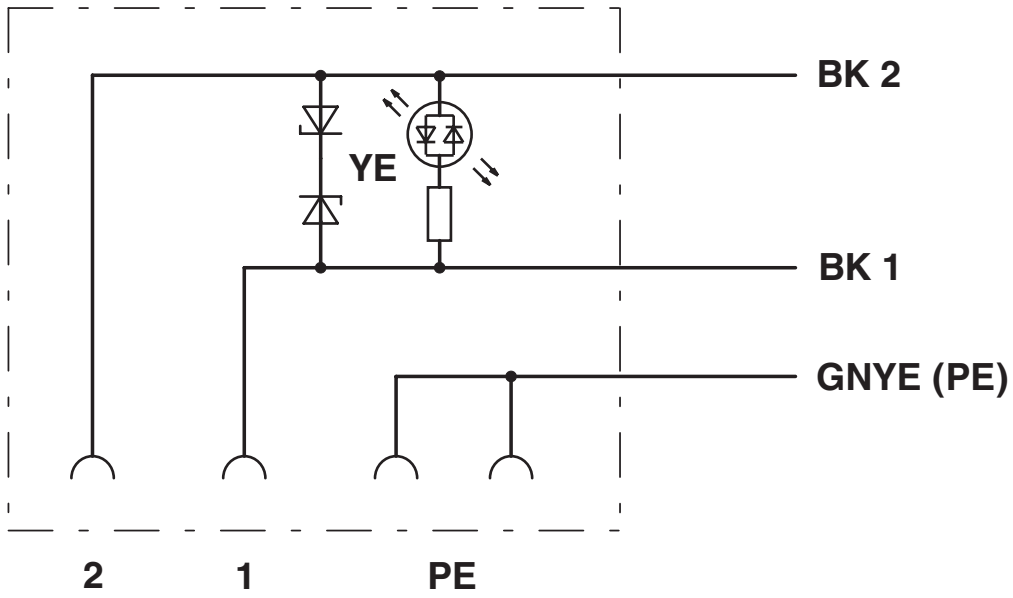

Valve connector, type A

Schematic diagram




Valve connector pin assignment, type A

Circuit diagram




Contact assignment of the valve plug

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1440685

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 110 V | 4 A | - | - |

**CSAus**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 110 V | 4 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27060312 |
| ECLASS-15.0 | 27060312 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001855 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 31251500 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | d85cfeb2-521c-4dd5-a43a-06b7d6995f60 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 6.817 kg CO2e |


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