# SAC-3P-10,0-PUR/B-1L-R-ES - Sensor/actuator cable

1401339

https://www.phoenixcontact.com/us/products/1401339

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Valve connector B (10 mm), with 1 LED, Wiring: Freewheeling diode with holding current limiting device, cable length: 10 m, with holding current limiting device for energy reduction

## Commercial data

| | |
|---|---|
| Item number | 1401339 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF07 |
| Product key | AF1DCA |
| GTIN | 4046356924580 |
| Weight per piece (including packing) | 311.4 g |
| Weight per piece (excluding packing) | 311.4 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

# Technical data

## Product properties

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

## Material specifications

| | |
|---|---|
| Seal material | TPU (Seal molded) |
| Material housing valve plug | TPU |
| Contact material | CuSn |
| Valve plug contact insert material | PA 6.6 |
| Contact surface material | Ag |

## Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 24 V DC ±20 % |
| Nominal current $I_N$ | 1 A |

### Valve connector characteristics

| | |
|---|---|
| Switch-over time | approx. 200 ms (Initial operating time) |
| Clock frequency | approx. 2500 Hz (Holding current limiting device) |
| Switching frequency | max. 5 Hz (Connected valve) |
| Fixing screws | M3 x 28 |

## Signaling

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

## Connector

### Connection 1

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

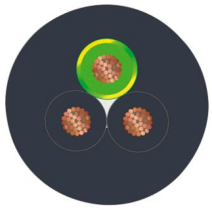
### Connection 2

| | |
|---|---|
| Type | Valve connector B (10 mm) |
| Number of positions | 3 |
| Material | CuSn (Contact) |
| | Ag (Contact surface) |
| | PBT (Contact carrier) |
| | TPU (Housing) |
| Protective circuit | Freewheeling diode with holding current limiting device |

## Cable/line

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

PUR halogen-free black [PUR]

| | |
|---|---|
| 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 | IP67 |
| Ambient temperature (operation) (Valve connector) | -25 °C ... 80 °C (Valve connector) |

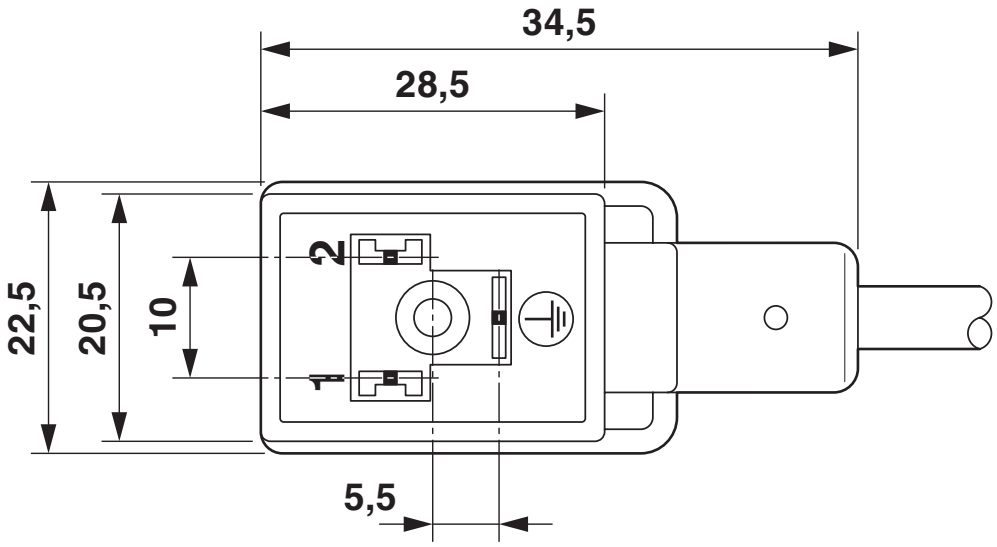
## Standards and regulations

Valve connector

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

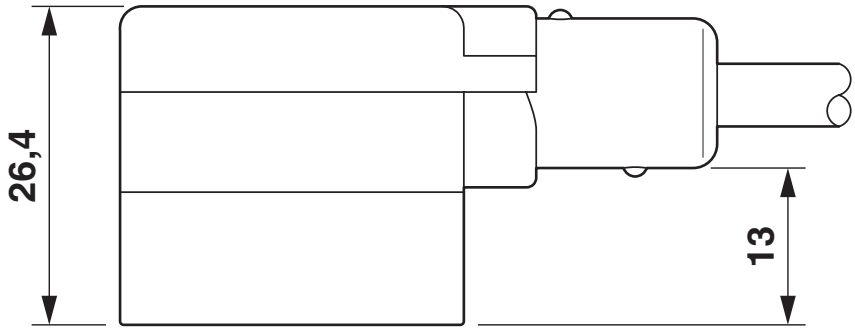
## Drawings

Dimensional drawing



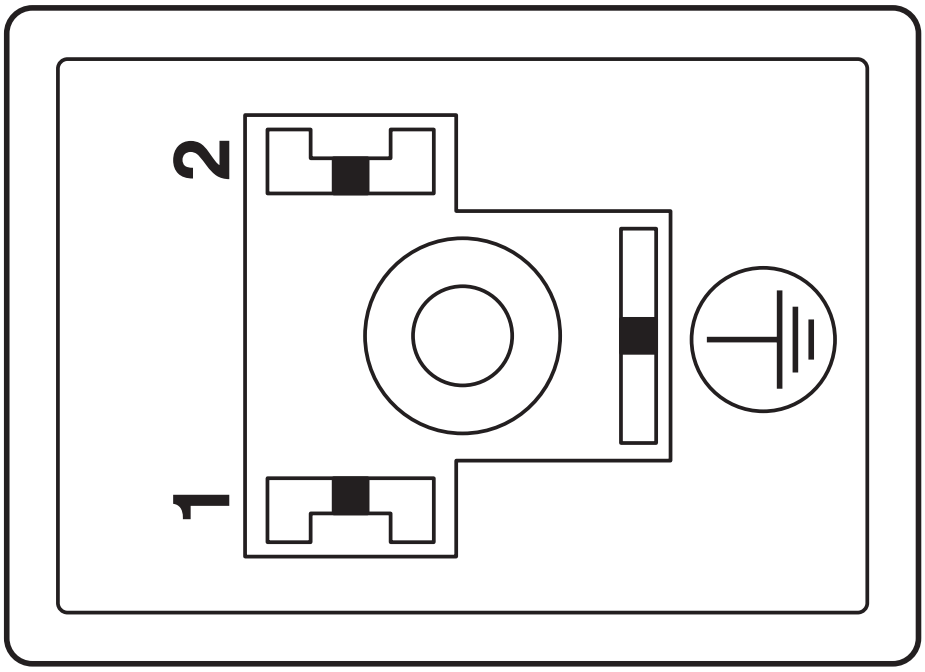

Valve connector, type B

Dimensional drawing



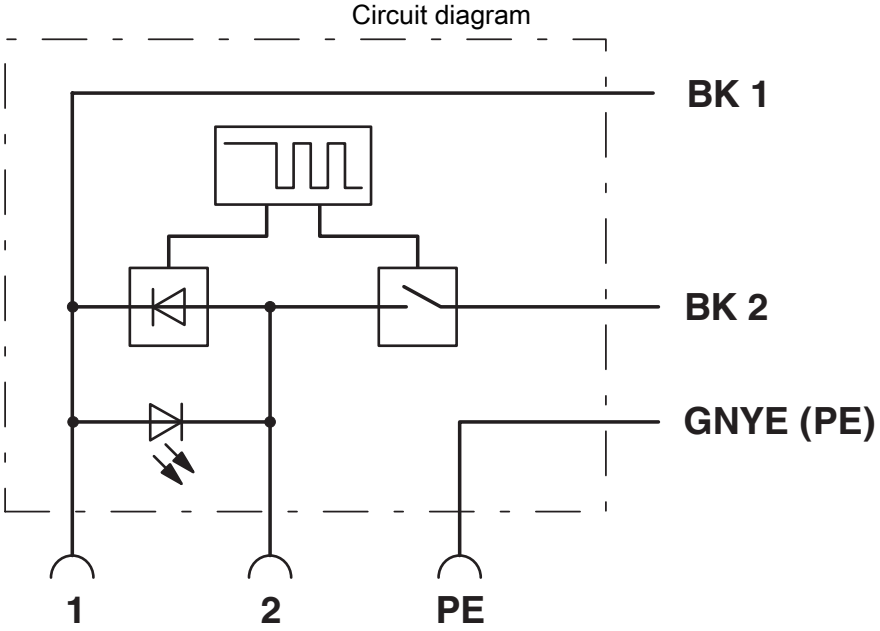

Valve connector, type B, side view

Schematic diagram




Valve connector pin assignment, type B

Circuit diagram




Contact assignment of the valve plug

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC001855 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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