

# SAC-3P- 5,0-PUR/BI-1L-V - Sensor/actuator cable



1443200

<https://www.phoenixcontact.com/us/products/1443200>

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Valve connector BI (11 mm), with 1 LED, Wiring: Varistor, cable length: 5 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Our standard: robust halogen-free PUR cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1443200       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF07          |
| Product key                          | AF1DDA        |
| GTIN                                 | 4046356531016 |
| Weight per piece (including packing) | 177.2 g       |
| Weight per piece (excluding packing) | 157.6 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## 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   |

### Insulation characteristics

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

### Connection data

#### Conductor connection

|                   |                          |
|-------------------|--------------------------|
| Tightening torque | 0.6 Nm (Valve connector) |
|-------------------|--------------------------|

### Material specifications

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

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 24 V AC                    |
|                       | 24 V DC                    |
| Nominal current $I_N$ | 4 A                        |

### Valve connector characteristics

|               |         |
|---------------|---------|
| Fixing screws | M3 x 29 |
|---------------|---------|

### Signaling

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

### Connector

#### Connection 1

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

#### Connection 2

|      |                            |
|------|----------------------------|
| Type | Valve connector BI (11 mm) |
|------|----------------------------|

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|                     |                          |
|---------------------|--------------------------|
| Number of positions | 3                        |
| Material            | CuSn (Contact)           |
|                     | Sn (Contact surface)     |
|                     | PA 6.6 (Contact carrier) |
|                     | TPU (Housing)            |
| Protective circuit  | Varistor                 |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 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 mm <sup>2</sup>  |
| 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,                               |

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|                                 |   |
|---------------------------------|---|
|                                 | Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s <sup>2</sup>               |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815  |
| Flame resistance                | according to DIN VDE 0482<br>According to DIN EN 50265-2-1                                      |
| Resistance to oil               | in accordance with DIN EN 60811-2-1   |
| Other resistance                | largely oil-resistant<br>partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)           |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)<br>-20 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Degree of protection   | IP65<br>IP67                                    |
| Ambient temperature (operation) (Valve connector)              | -20 °C ... 85 °C (Valve connector)              |
| Ambient temperature (operation) (Cable, fixed installation)    | -40 °C ... 80 °C (cable, fixed installation)    |
| Ambient temperature (operation) (Cable, flexible installation) | -15 °C ... 80 °C (Cable, flexible installation) |

## Standards and regulations

### Valve connector

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

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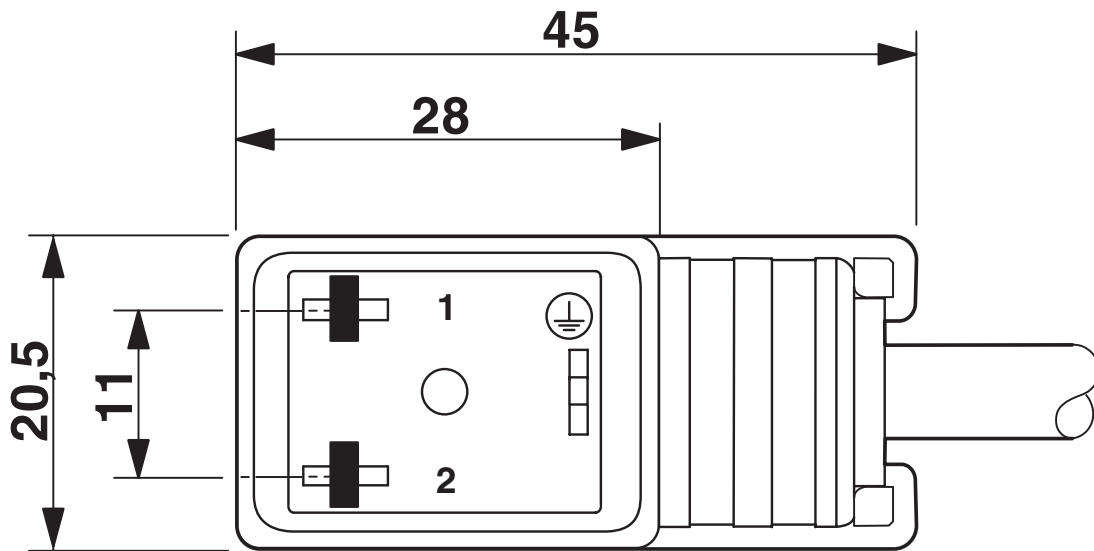


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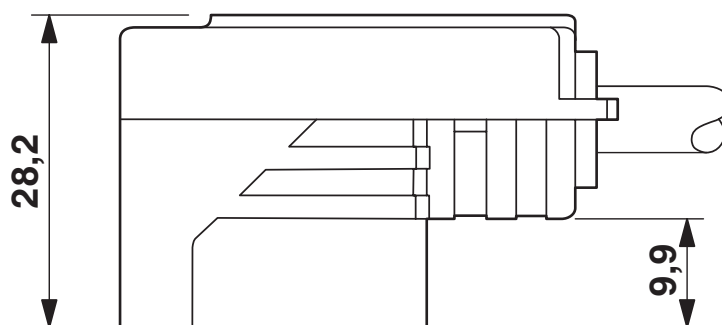
## Drawings

Dimensional drawing



Valve connector, type BI

Dimensional drawing



Valve connector, type BI, side view

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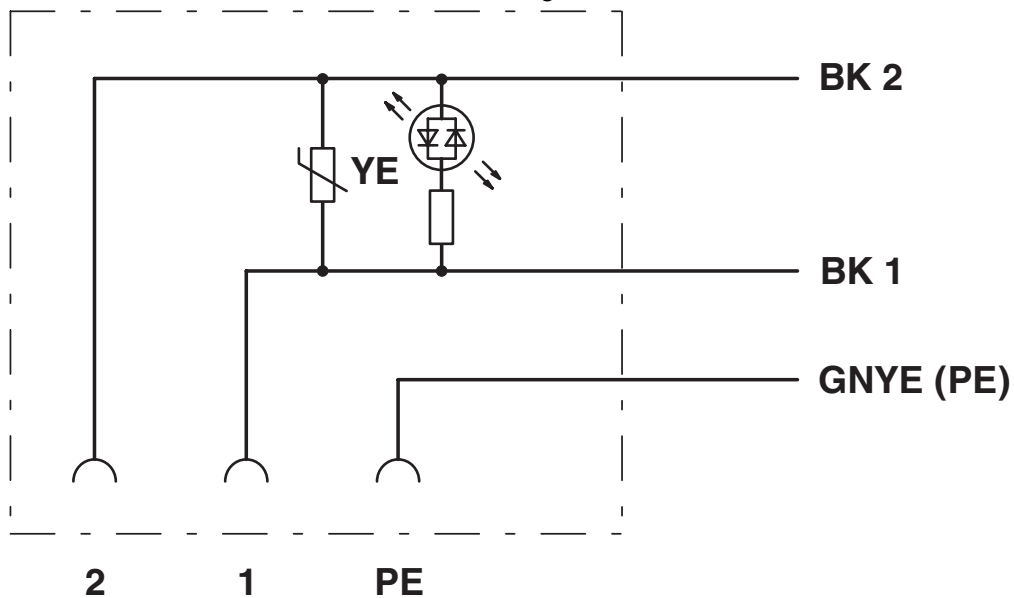
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Schematic diagram



Valve connector pin assignment, type BI

Circuit diagram



Contact assignment of the valve plug

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1443200>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387



**CSAus**

Approval ID: 13631

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 24 V                  | 6 A                   | -                 | -                           |

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.702 kg CO2e |
|---------|---------------|

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