

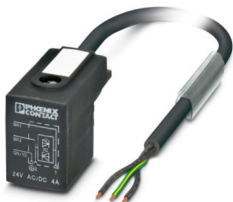
# SAC-3P- 3,0-PUR/BI-1L-Z - Sensor/actuator cable



1435247

<https://www.phoenixcontact.com/us/products/1435247>

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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, connected with Z diode, cable length: 3 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	1435247
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	BF1DDA
Catalog page	Page 228 (C-2-2019)
GTIN	4046356413572
Weight per piece (including packing)	113.1 g
Weight per piece (excluding packing)	105.8 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
Number of positions	3
Application	Standard
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
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
Protective circuit	Z diode

### Valve connector characteristics

Fixing screws	M3 x 29
Pulse power	40 W (at 100 $\mu$ s square-wave pulse)
Terminal voltage	70 V (at 2 mA constant current)
Reverse voltage	50 V

### Signaling

Status display	1 LED
Status display present	Yes

### Connector

#### Connection 1

Type	free cable end
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#### Connection 2

Type	Valve connector BI (11 mm)
Number of positions	3

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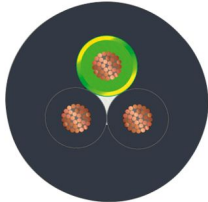
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Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carriers)
	TPU (Housing)

## Cable/line

Cable length	3 m
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### 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
Max. bending cycles	15000000
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	according to DIN VDE 0482

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	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 plug)

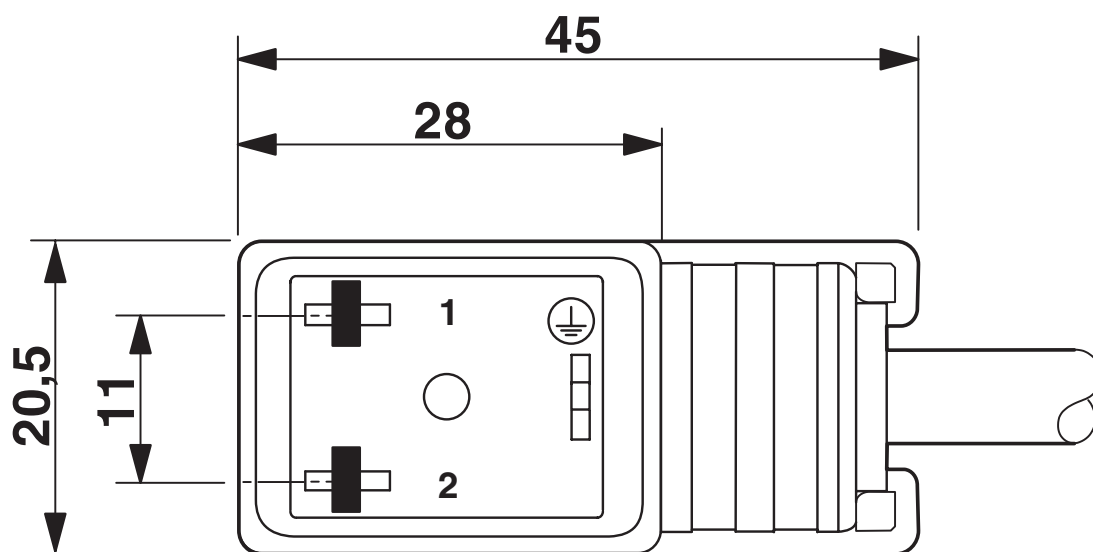
## Standards and regulations

### Valve connector

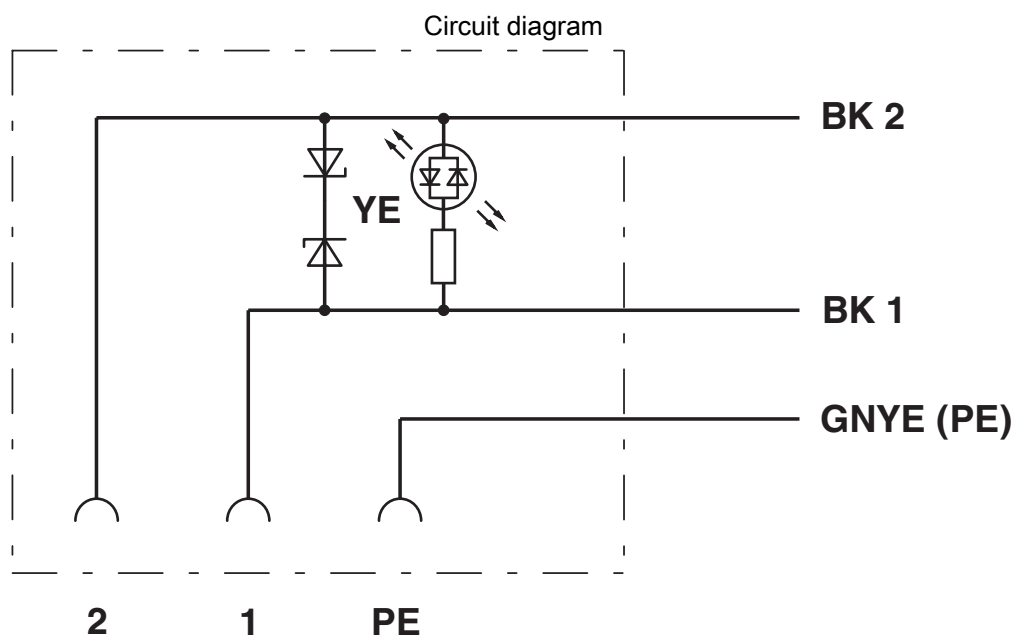
Standard designation	Valve connector
Standards/specifications	EN 175301-803

## Drawings

Dimensional drawing



Valve connector, type BI



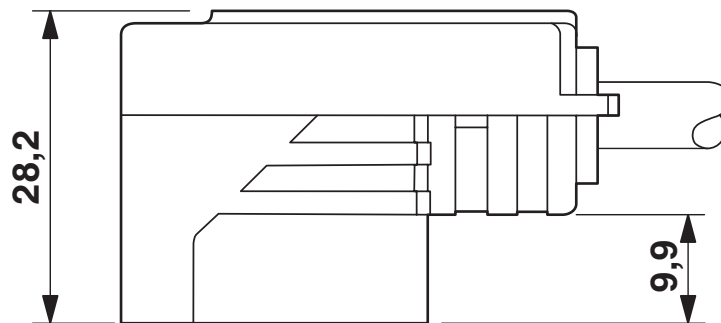
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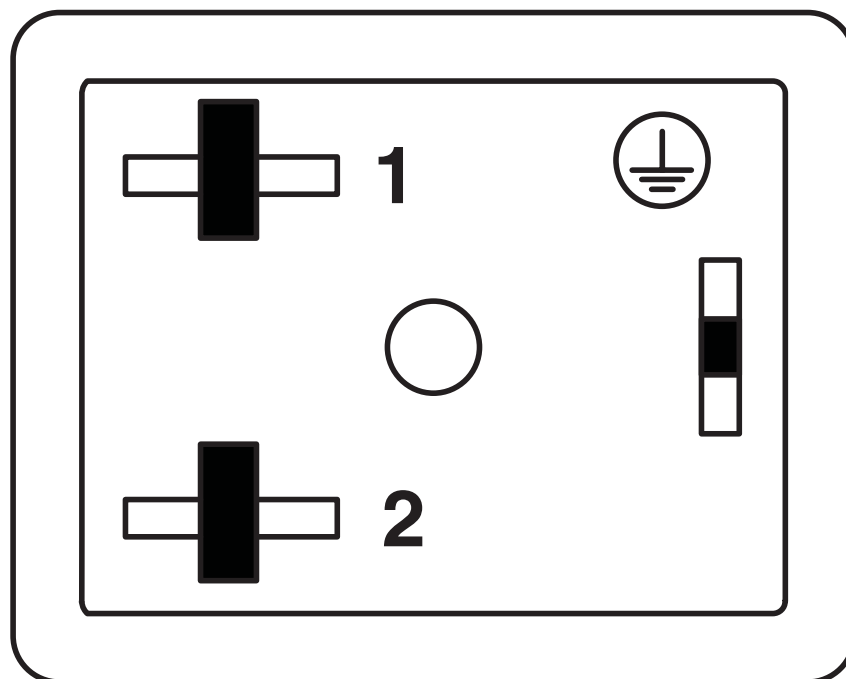


Dimensional drawing



Valve connector, type BI, side view

Schematic diagram



Valve connector pin assignment, type BI

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1435247>



**EAC-RoHS**  
Approval ID: RU D-DE.HB35.B.00387

	<b>CSAus</b> Approval ID: 13631			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	24 V	6 A	-	-

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## Classifications

### ECLASS

ECLASS-11.0	27060312
ECLASS-12.0	27060312
ECLASS-13.0	27060312

### ETIM

ETIM 9.0	EC001855
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### UNSPSC

UNSPSC 21.0	31251500
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## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)