

# Sensor/actuator cable - SAC-3P- 5,0-PUR/BI-1L-Z 180 - 1438846


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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: 5 m

RoHS

## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 496711
GTIN	4046356496711

## Technical data

### Dimensions

Length of cable	5 m
Stripping length of the free conductor end	50 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 85 °C (valve plug)
Degree of protection	IP65/IP67

### General

Rated current at 40°C	4 A
Rated voltage	24 V AC 24 V DC
Number of positions	3
Insulation resistance	≥ 100 MΩ
Status display	1 LED
Protective circuit/component	Z diode
Overvoltage category	III
Degree of pollution	3

### Material

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## Technical data

### 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)

### Standards and Regulations

Flammability rating according to UL 94	V0
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### Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549
Conductor cross section	3x 0.5 mm <sup>2</sup>
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	1.5 mm ±0.05 mm (Signal line)
Wire colors	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
External sheath, color	black-gray RAL 7021
External cable diameter D	4.5 mm ±0.2 mm
Smallest bending radius, fixed installation	22.5 mm
Number of bending cycles	15000000
Bending radius	50 mm
Traversing path	0.9 m
Traversing rate	5 m/s
Acceleration	30 m/s <sup>2</sup>
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	min. 20 MΩ*km
Conductor resistance	39 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 1200 V
Flame resistance	according to DIN VDE 0482
	According to DIN EN 50265-2-1
Halogen-free	in accordance with DIN VDE 0472 part 815
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)

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## Technical data

### Cable

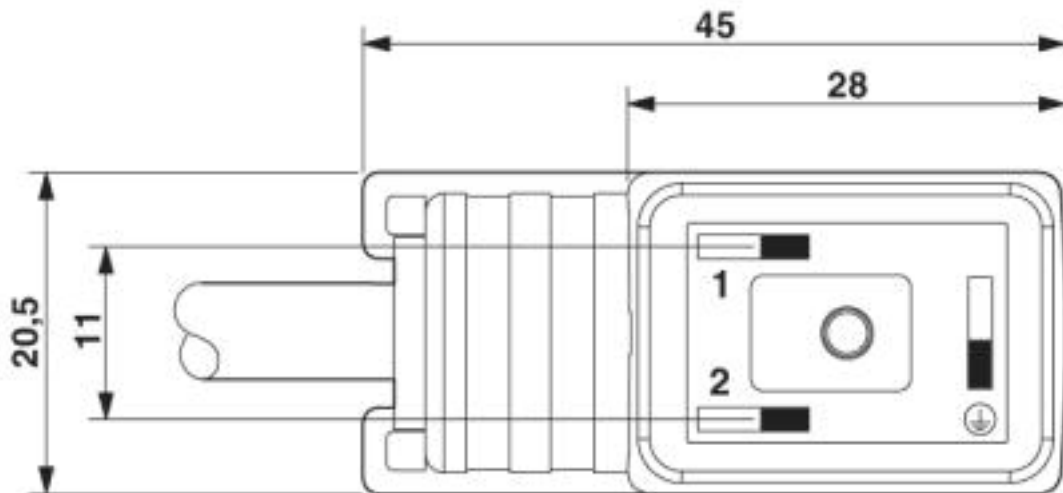
	-20 °C ... 80 °C (cable, flexible installation)
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### Environmental Product Compliance

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

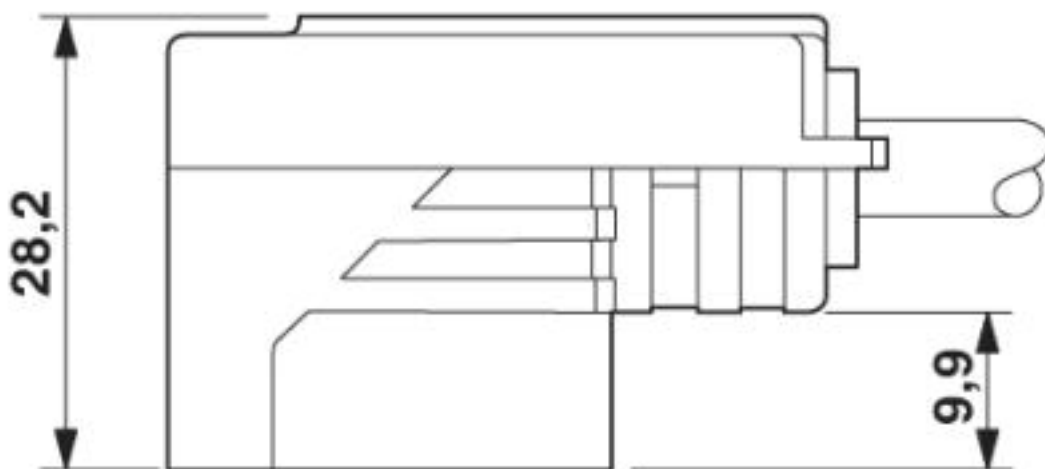
## Drawings

Dimensional drawing



Valve connector, type BI

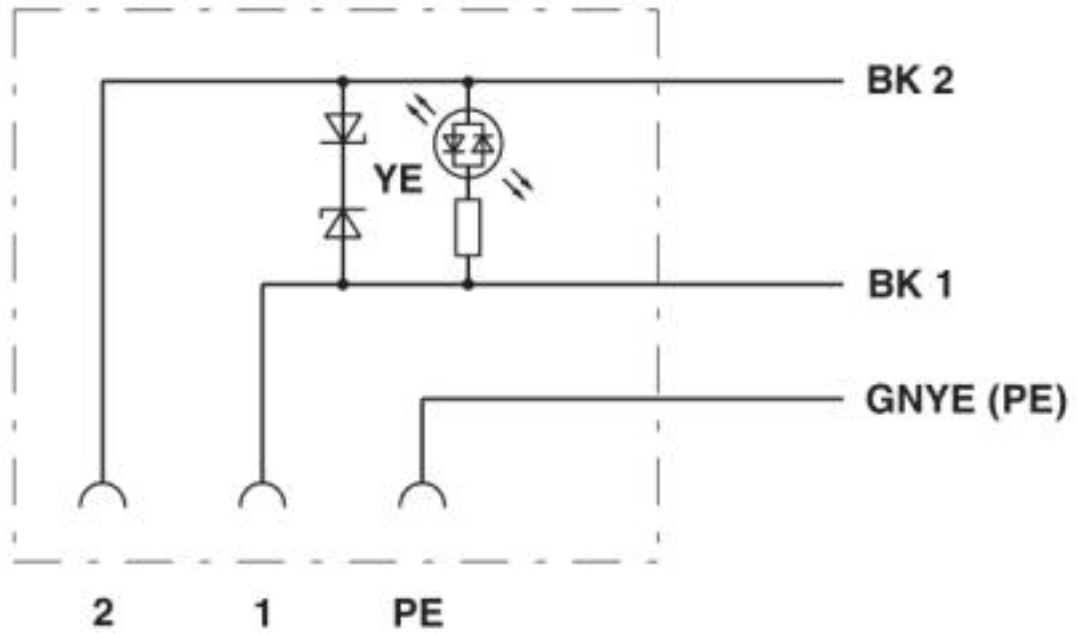
Dimensional drawing



Valve connector, type BI, side view

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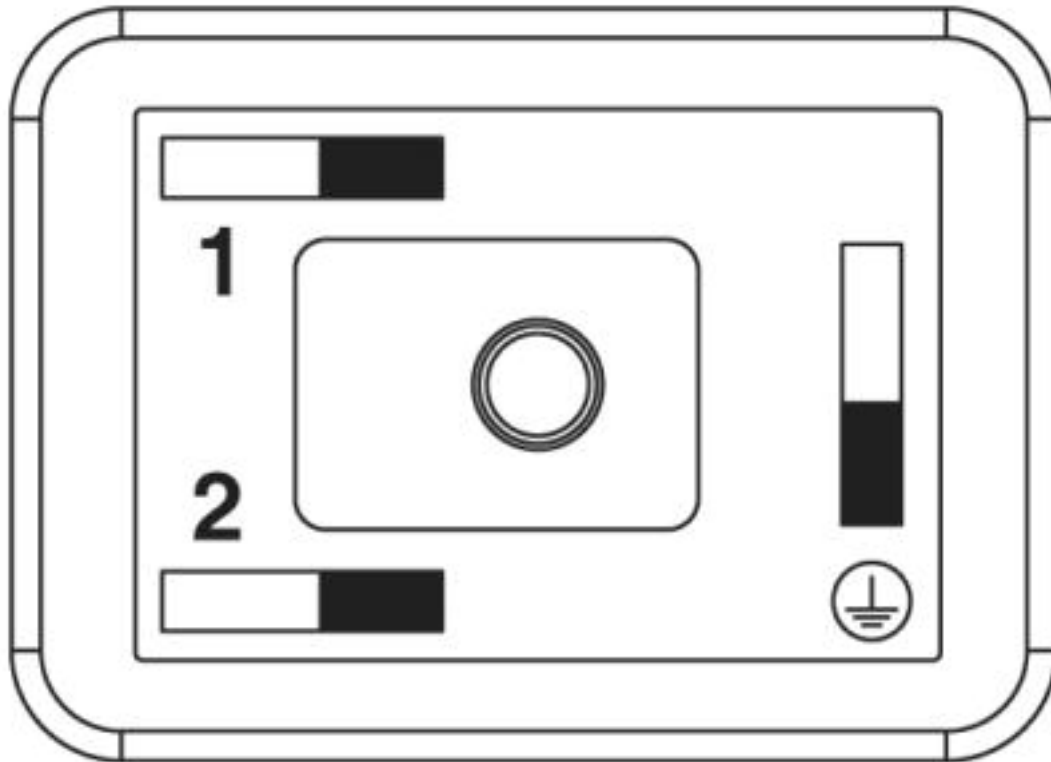
Circuit diagram



Contact assignment of the valve plug

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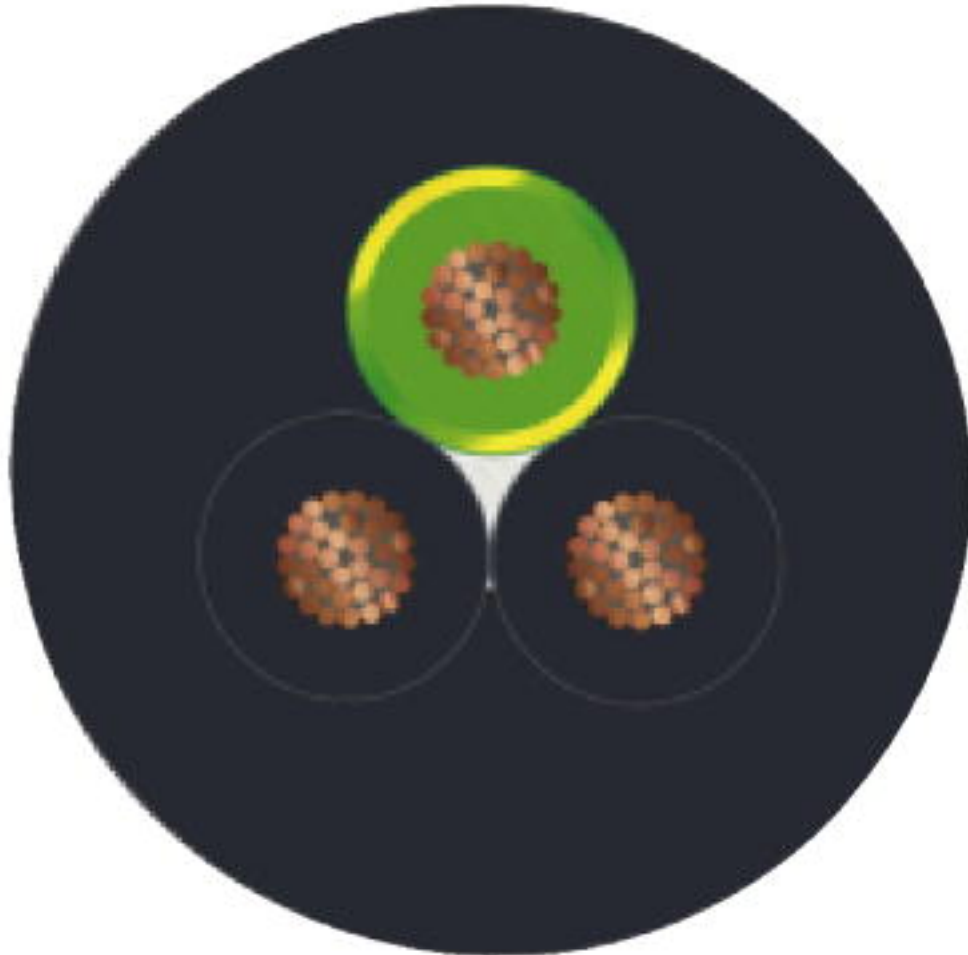
Schematic diagram



Valve connector pin assignment, type BI

# Sensor/actuator cable - SAC-3P- 5,0-PUR/BI-1L-Z 180 - 1438846

Cable cross section



PUR halogen-free black [PUR]

## Approvals

Approvals

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Approvals

CSAus

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Ex Approvals

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Approval details

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### Approvals

CSAus		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
Nominal voltage UN		24 V	
Nominal current IN		6 A	

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