

## Sensor/Actuator cable - SAC-3P- 1,5-PUR/BI-1L-V - 1443187

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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 Varistor, Cable length: 1.5 m

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector with varistor as protective circuit
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ Our standard: robust halogen-free PUR cable

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 530996
GTIN	4046356530996
Weight per Piece (excluding packing)	60.000 g
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	1.5 m
Central screw valve connector	M3 x 29

#### Ambient conditions

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

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## Technical data

### Ambient conditions

	IP67
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### General

Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Insulation resistance	≥ 100 MΩ
Status display	1 LED
Protective circuit/component	Varistor
Overvoltage category	III
Degree of pollution	3
Torque	0.6 Nm (Valve connector)

### 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 66
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	1500000

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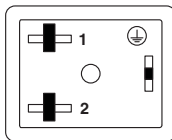
## Technical data

### Cable

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)
	-20 °C ... 80 °C (cable, flexible installation)

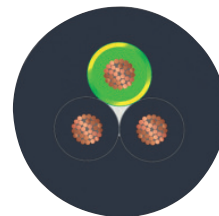
## Drawings

Schematic diagram



Valve connector pin assignment, type BI

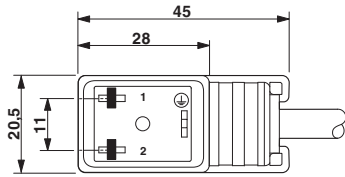
Cable cross section



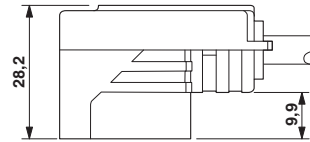
PUR halogen-free black [PUR]

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Dimensional drawing



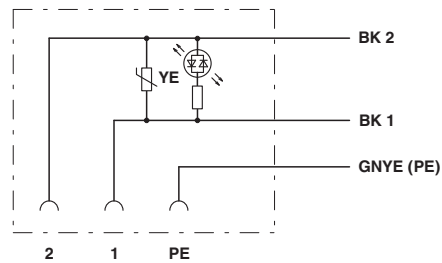
Dimensional drawing



Valve connector, type BI, side view

Valve connector, type BI

Circuit diagram



Contact assignment of the valve plug

## Approvals

Approvals

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Approvals

EAC / CSAus

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Ex Approvals


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Approval details

EAC		EAC-Zulassung
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### Approvals

CSAus		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	13631
Nominal current I <sub>N</sub>		6 A	
Nominal voltage U <sub>N</sub>		24 V	