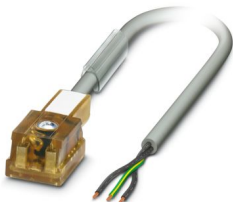


1669961

<https://www.phoenixcontact.com/pc/products/1669961>

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Sensor/actuator cable, 3-position, PUR/PVC, gray RAL 7001, free cable end, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode, 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
- Compact: flat design for applications where space is at a premium

Commercial data

Item number	1669961
Packing unit	5 pc
Minimum order quantity	150 pc
Sales key	02
Product key	BF1DWA
Catalog page	Page 108 (PC-2002)
GTIN	4017918134860
Weight per piece (including packing)	301.83 g
Weight per piece (excluding packing)	301.83 g
Customs tariff number	85444290
Country of origin	DE

SAC-3P- 5,0-PUR/BI-1L-S F - Sensor/actuator cable



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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	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Seal material	TPU
Material housing valve plug	PBT
Contact material	CuSn
Valve plug contact insert material	PBT
Contact surface material	Ag
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	24 V AC
	24 V DC
Nominal current I_N	3 A

Valve connector characteristics

Fixing screws	M3 x 29
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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
Material	CuSn (Contact)
	Ag (Contact surface)

SAC-3P- 5,0-PUR/BI-1L-S F - Sensor/actuator cable



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	PBT (Contact carriers)
	PBT (Housing)

Cable/line

Cable length	5 m
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PUR/PVC gray [100]

Number of positions	3
Shielded	no
Cable type	PUR/PVC gray [100]
Conductor structure signal line	24x 0.20 mm
AWG signal line	18
Conductor cross section	3x 0.75 mm² (Signal line)
Wire diameter incl. insulation	approx. 1.8 mm (Signal line)
External cable diameter	5.20 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, green/yellow
Thickness, insulation	approx. 0.34 mm (Core insulation)
	approx. 0.30 mm (Inner sheath)
	approx. 0.35 mm (Outer cable sheath)
Overall twist	3 concentrically twisted wires
Length of twist, overall twist	83 mm
Insulation resistance	≥ 1 MΩ*km
Nominal voltage, cable	240 V
Test voltage	2000 V
Smallest bending radius, fixed installation	63 mm
Smallest bending radius, movable installation	63 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 63 mm, Traversing path: 5 m, Traversing rate: 3 m/s
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-20 °C ... 80 °C (valve plug)
	-30 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 70 °C (Cable, flexible installation)

SAC-3P- 5,0-PUR/BI-1L-S F - Sensor/actuator cable

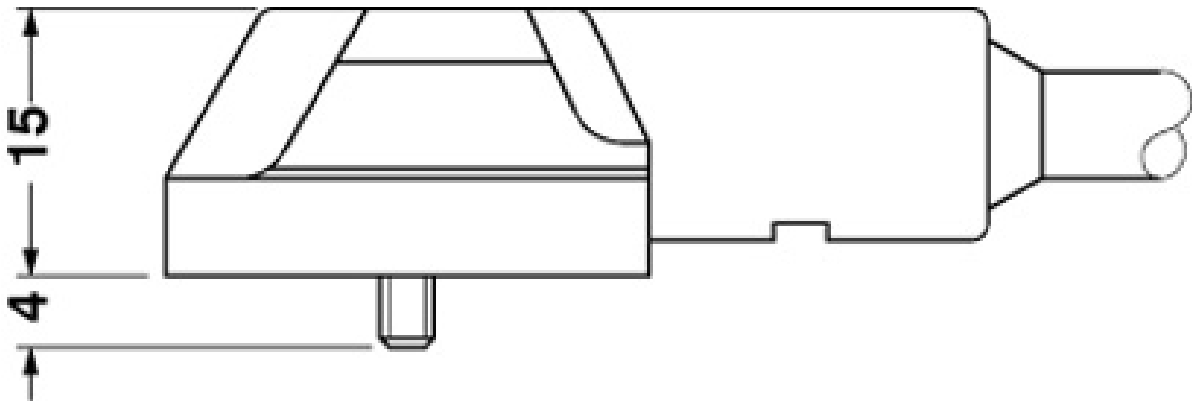


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Drawings

Dimensional drawing



Valve connector, type BI, flat

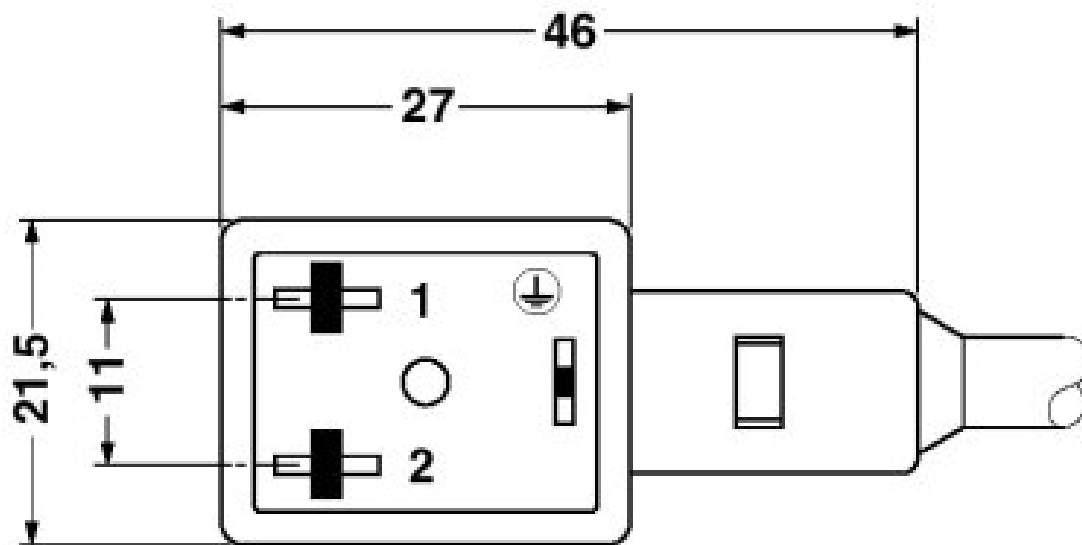
SAC-3P- 5,0-PUR/BI-1L-S F - Sensor/actuator cable



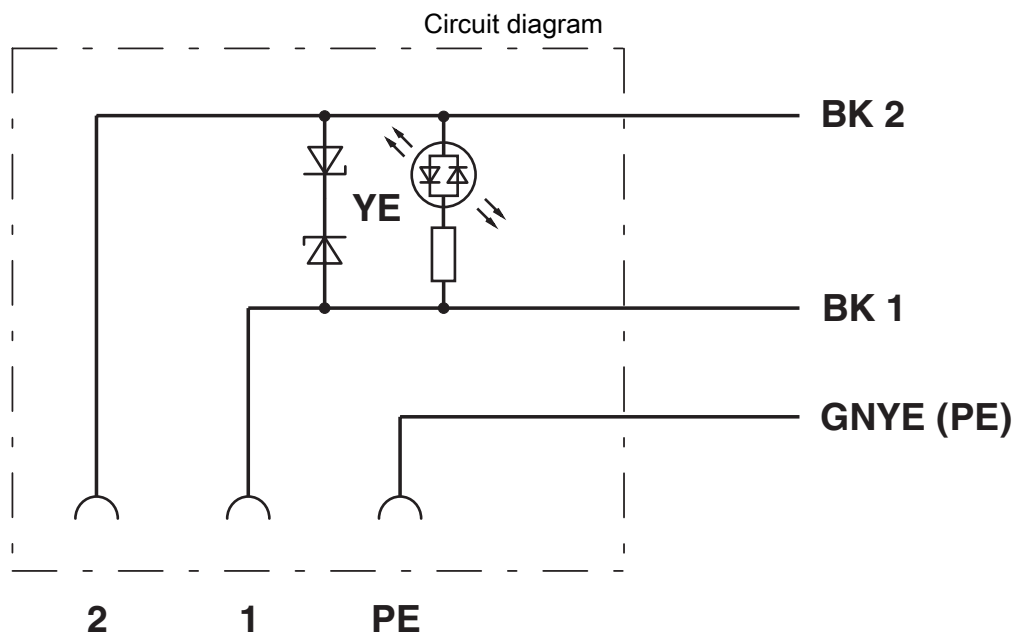
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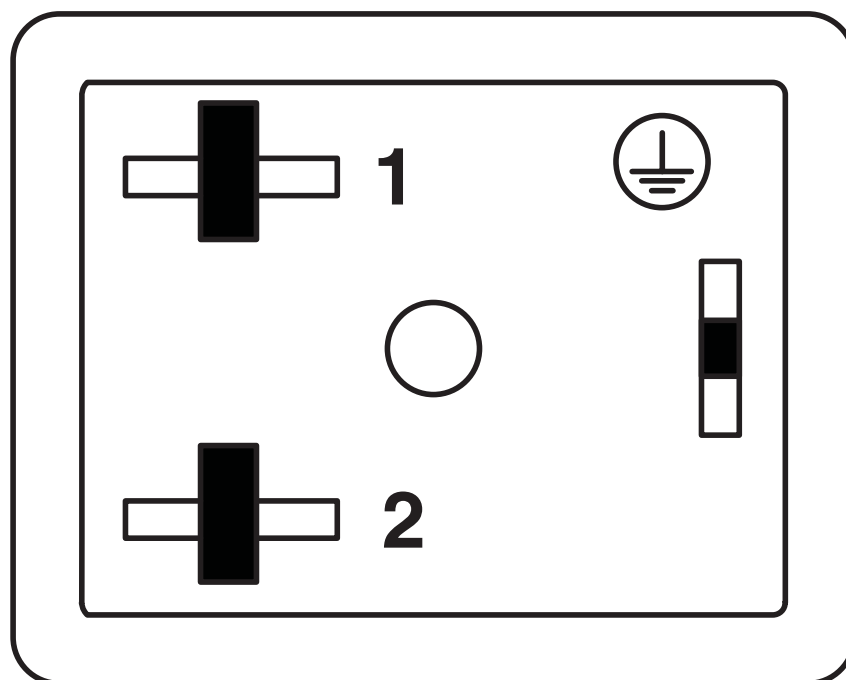
Dimensional drawing



Valve connector, type BI, flat



Schematic diagram



Valve connector pin assignment, type BI

SAC-3P- 5,0-PUR/BI-1L-S F - Sensor/actuator cable



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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-13.0	27060311

Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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