

Sensor/Actuator cable - SAC-3P- 3,0-PUR/BI-1L-S F - 1669958

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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, connected with Z diode, Cable length: 3 m

Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector with Zener diode as protective circuit
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ Compact: flat design for applications where space is at a premium

Key commercial data

package_quantity	5
GTIN	4017918134853

Technical data

Dimensions

Length of cable	3 m
Stripping length of the free conductor end	50 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 80 °C (valve plug)
Degree of protection	IP65
Degree of protection	IP67
Degree of protection	IP68

General

Rated current at 40°C	3 A
Rated voltage	24 V
Number of positions	3
Contact resistance	≤ 15 mΩ
Insulation resistance	≥ 100 MΩ
Status display	1 LED
Protective circuit/component	Z diode
Surge voltage category	II
Pollution degree	3

Material

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Technical data

Material

Inflammability class according to UL 94	V0
Valve plug contact material	CuSn
Valve plug contact surface material	Ag
Valve plug contact insert material	PBT
Material housing valve plug	PBT
Sealing material	TPU (Flat gasket valve plug)

Cable

Cable type	PUR/PVC gray
Cable type (abbreviation)	100
Cable abbreviation	LiYY11Y-JZ
Conductor cross section	0.75 mm ²
AWG signal line	18
Conductor structure signal line	24x 0.20 mm
Core diameter including insulation	approx. 1.8 mm
Thickness, insulation	approx. 0.34 mm (Core insulation)
Thickness, insulation	approx. 0.35 mm (Outer cable sheath)
Thickness, insulation	approx. 0.3 mm (Inner sheath)
Wire colors	black 1, black 2, green/yellow
Overall twist	3 concentrically twisted wires
Length of twist, overall twist	83 mm
External sheath, color	Gray RAL 7001
External cable diameter	5.20 mm
Smallest bending radius, movable installation	62 mm
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 1 MΩ*km
Nominal voltage, cable	240 V
Test voltage, cable	2000 V
Ambient temperature (operation)	-30 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation)	-5 °C ... 70 °C (cable, flexible installation)

classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801

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classifications

eCl@ss

eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

approvals

UL Listed / cUL Listed / cULus Listed /

Approval details

UL Listed 	
Nominal voltage UN	24 V
Nominal current IN	4 A
mm²/AWG/kcmil	

cUL Listed 	
Nominal voltage UN	24 V
Nominal current IN	4 A
mm²/AWG/kcmil	

cULus Listed 	
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accessories

Conductor marking

PABA WH/15 - 1013151



PABA YE/15 - 1013698



PABA RD/15 - 1013944



Marker carrier cable

PATG 2/15 - 1013038



PATG 3/15 - 1013041



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accessories

PATG 4/15 - 1013054



Marker pen

B-STIFT - 1051993



Cutting tools

CUTFOX-S VDE - 1212207



Stripping tool

WIREFOX SAC - 1212623



WIREFOX 10 - 1212150



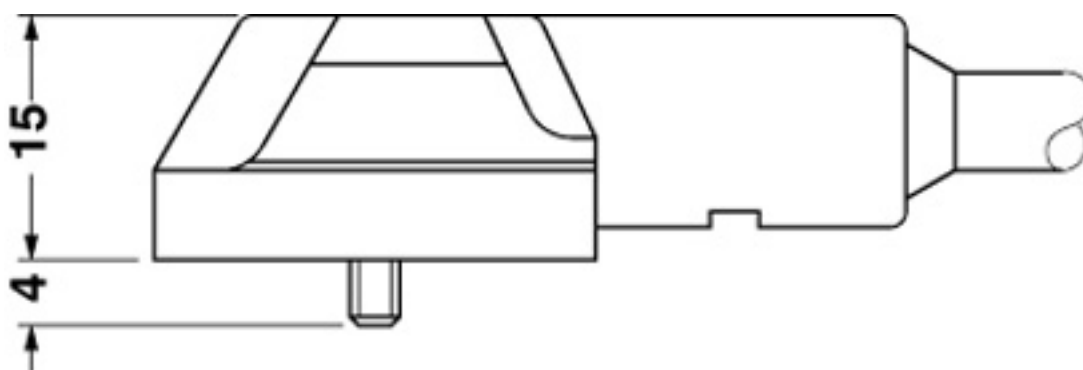
Sensor/Actuator cable - SAC-3P- 3,0-PUR/BI-1L-S F - 1669958

accessories

WIREFOX SAC-1 - 1212757

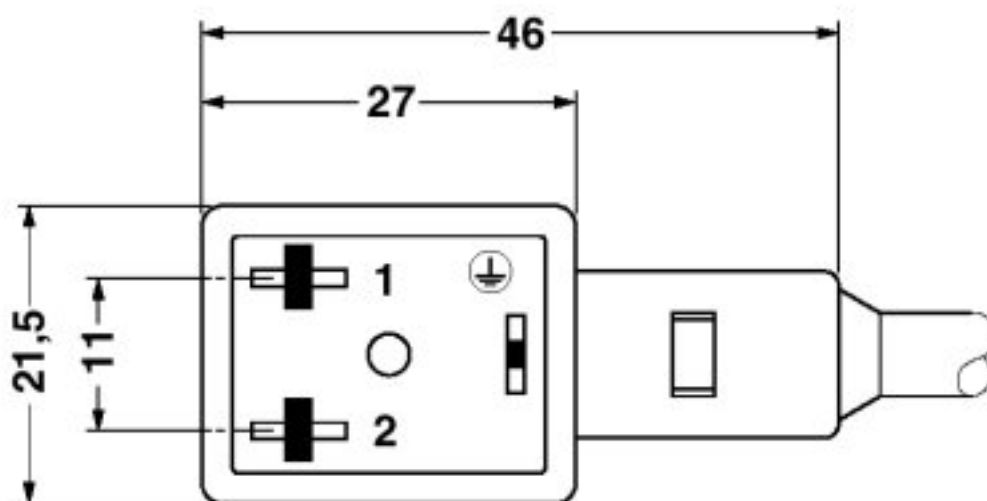
Drawings

Dimensioned drawing



Valve connector, type BI, flat

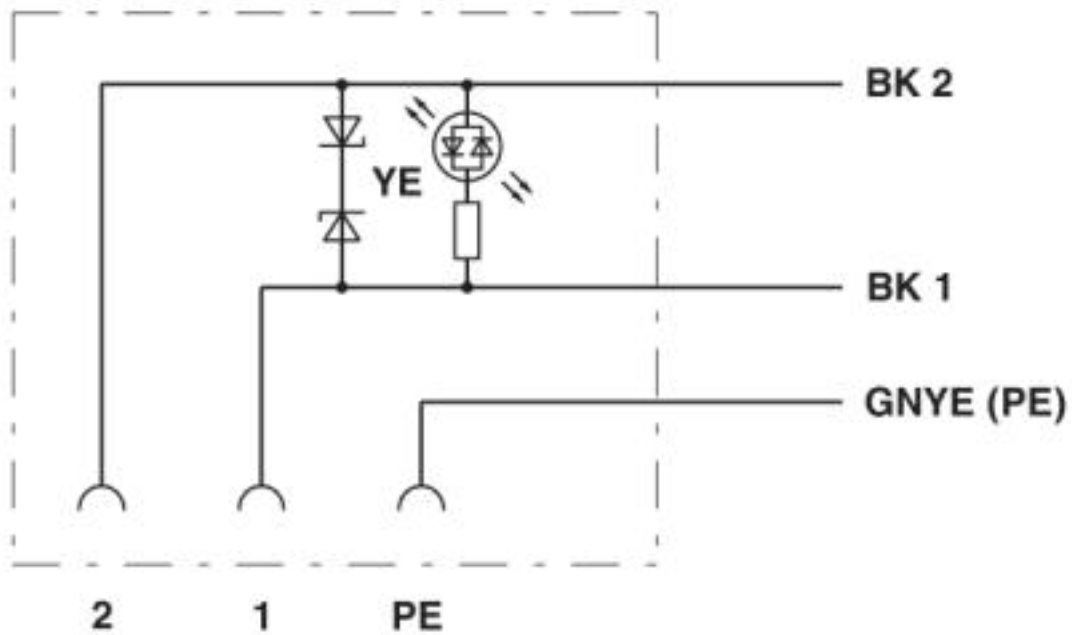
Dimensioned drawing



Valve connector, type BI, flat

Sensor/Actuator cable - SAC-3P- 3,0-PUR/BI-1L-S F - 1669958

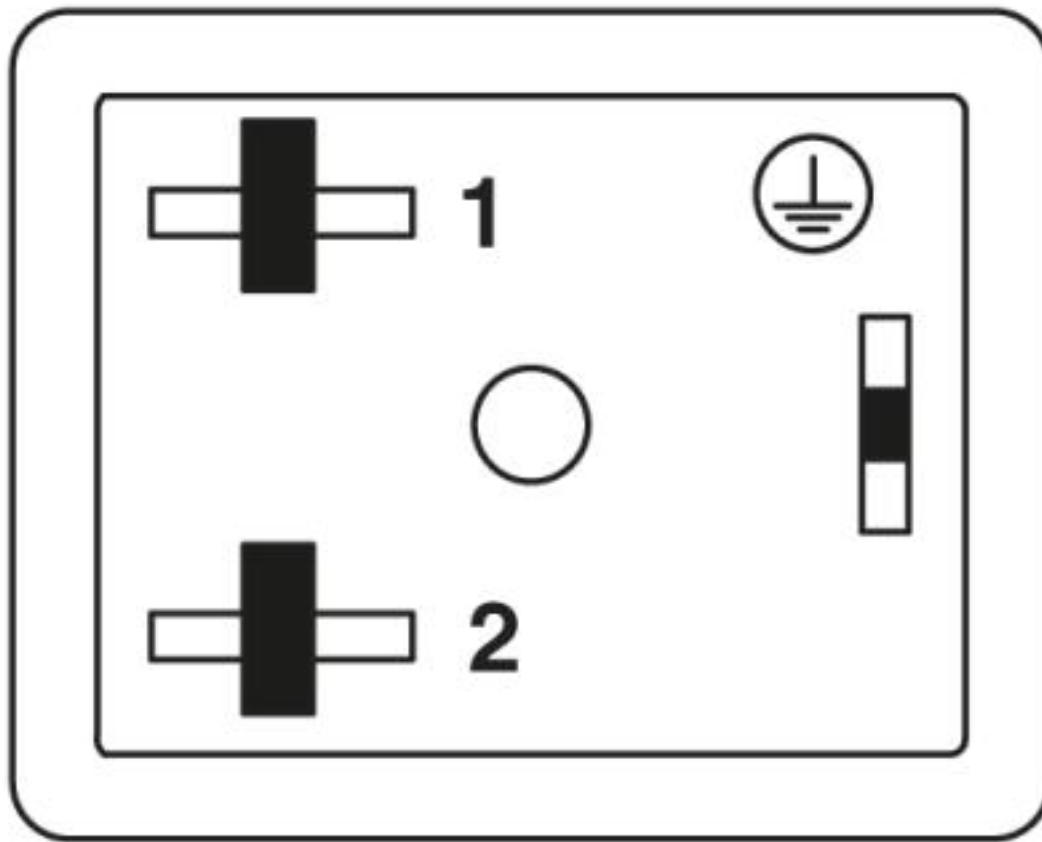
Circuit diagram



Contact assignment of the valve plug

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Schematic diagram



Valve connector pin assignment, type BI

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