

1415933

<https://www.phoenixcontact.com/us/products/1415933>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-position, PVC, black RAL 9005, free cable end, on Valve connector BI (11 mm), with 1 LED, Wiring: Varistor, 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

Commercial data

Item number	1415933
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	AF1DDA
Catalog page	Page 231 (C-2-2019)
GTIN	4055626054988
Weight per piece (including packing)	211.2 g
Weight per piece (excluding packing)	193.6 g
Customs tariff number	85444290
Country of origin	PL

# SAC-3P- 5,0-PVC/BI-1L-V - Sensor/actuator cable



1415933

<https://www.phoenixcontact.com/us/products/1415933>

## 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	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

### Valve connector characteristics

Fixing screws	M3 x 29
---------------	---------

### Signaling

Status display	1 LED
Status display present	yes

### Connector

#### Connection 1

Type	free cable end
------	----------------

#### Connection 2

Type	Valve connector BI (11 mm)
Number of positions	3
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carrier)
	TPU (Housing)

# SAC-3P- 5,0-PVC/BI-1L-V - Sensor/actuator cable



1415933

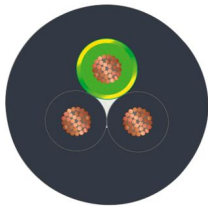
<https://www.phoenixcontact.com/us/products/1415933>

Protective circuit	Varistor
--------------------	----------

## Cable/line

Cable length	5 m
--------------	-----

## PVC black [PVC]

Dimensional drawing	
Cable weight	38.6 kg/km
UL AWM Style	2464
Number of positions	3
Shielded	no
Cable type	PVC black [PVC]
Conductor structure signal line	16x 0.20 mm
AWG signal line	20
Conductor cross section	3x 0.5 mm²
Wire diameter incl. insulation	1.5 mm ±0.05 mm
External cable diameter	4.80 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
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	≥ 20 MΩ*km
Nominal voltage, cable	300 V
Test voltage	1200 V
Minimum bending radius, fixed installation	5 x D
Smallest bending radius, fixed installation	24 mm
Flame resistance	DIN VDE 0482 DIN EN 50265-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

# SAC-3P- 5,0-PVC/BI-1L-V - Sensor/actuator cable



1415933

<https://www.phoenixcontact.com/us/products/1415933>

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-20 °C ... 85 °C (Valve connector)

## Standards and regulations

Valve connector	
Standard designation	Valve connector
Standards/specifications	EN 175301-803

# SAC-3P- 5,0-PVC/BI-1L-V - Sensor/actuator cable

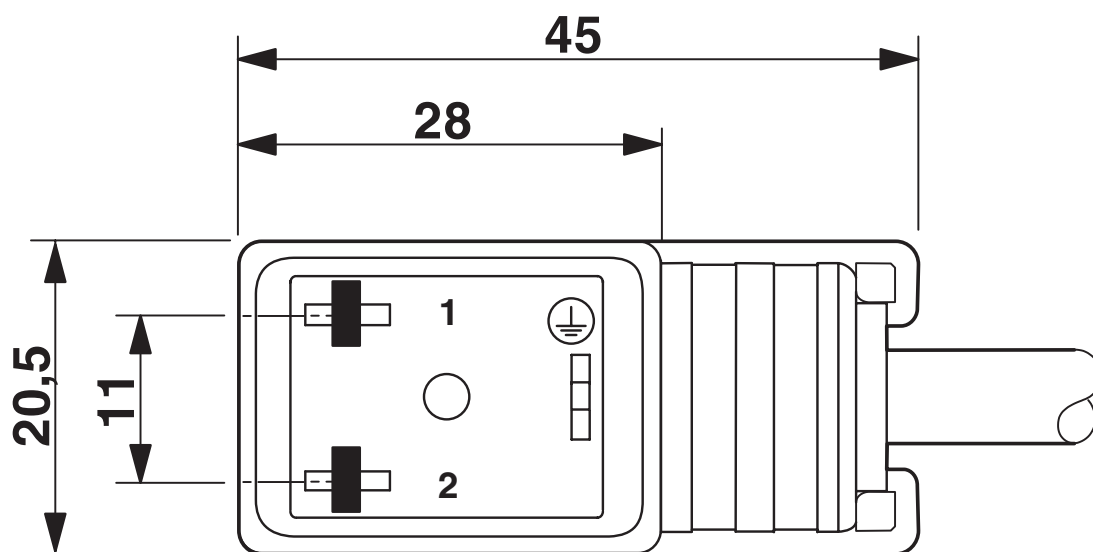


1415933

<https://www.phoenixcontact.com/us/products/1415933>

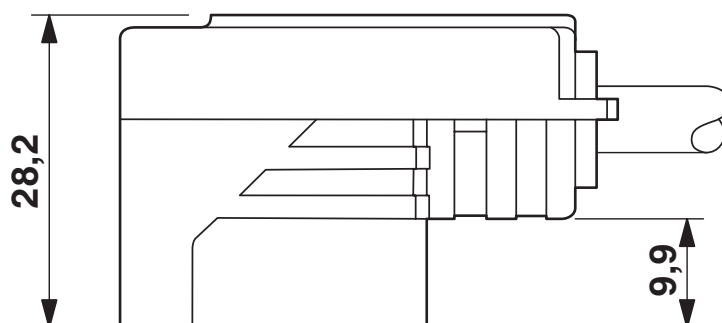
## Drawings

Dimensional drawing



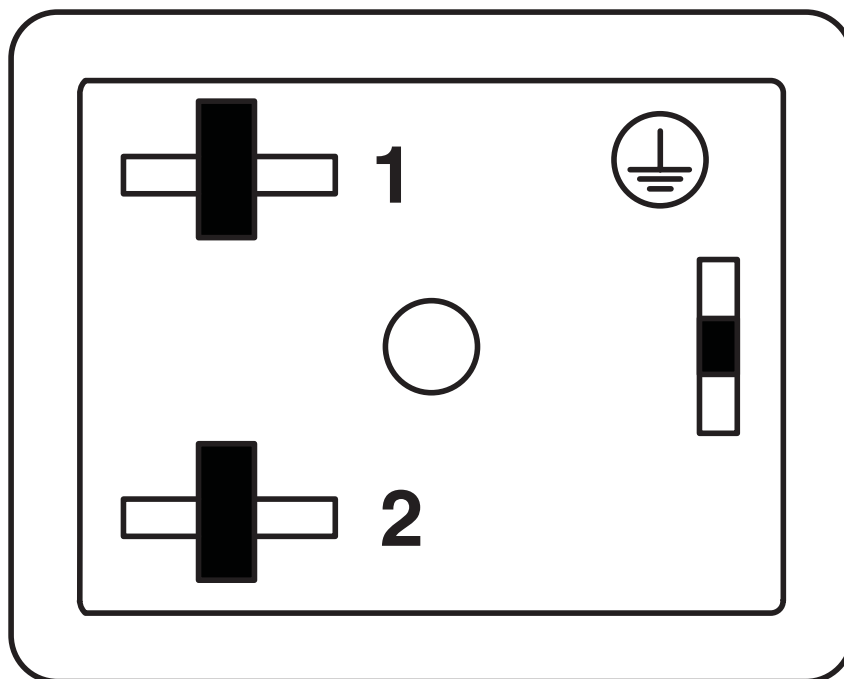
Valve connector, type BI

Dimensional drawing



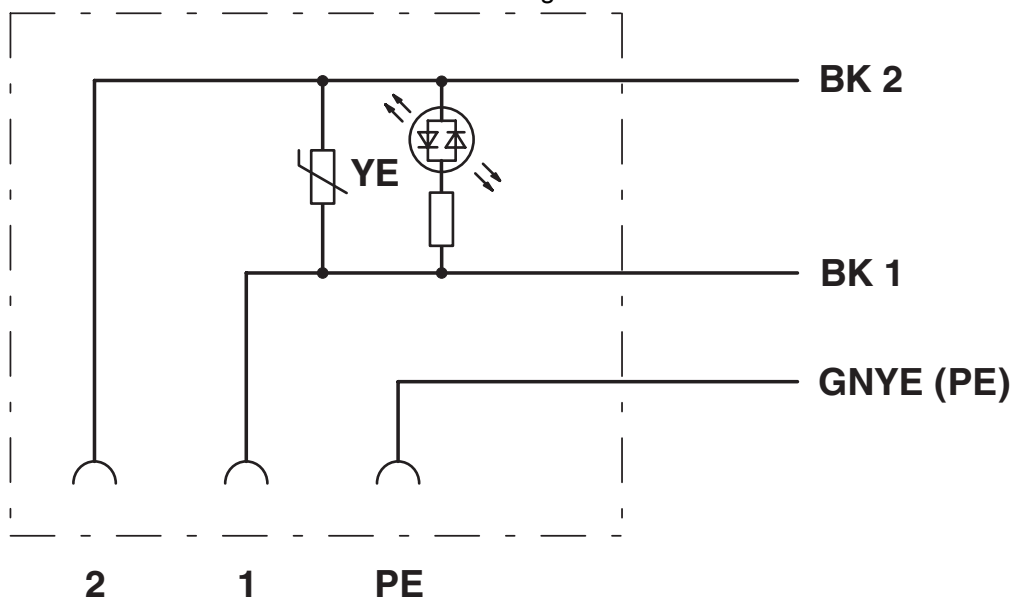
Valve connector, type BI, side view

Schematic diagram



Valve connector pin assignment, type BI

Circuit diagram



Contact assignment of the valve plug

# SAC-3P- 5,0-PVC/BI-1L-V - Sensor/actuator cable




1415933


<https://www.phoenixcontact.com/us/products/1415933>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1415933>



**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	-	-

# SAC-3P- 5,0-PVC/BI-1L-V - Sensor/actuator cable



1415933

<https://www.phoenixcontact.com/us/products/1415933>

## Classifications

### ECLASS

ECLASS-13.0	27060312
-------------	----------

### ETIM

ETIM 9.0	EC001855
----------	----------

### UNSPSC

UNSPSC 21.0	31251500
-------------	----------



# SAC-3P- 5,0-PVC/BI-1L-V - Sensor/actuator cable



1415933

<https://www.phoenixcontact.com/us/products/1415933>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
-----------------------------------------	--------------------

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

### EF3.0 Climate Change

CO2e kg	2.6 kg CO2e
---------	-------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

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