

1438846

<https://www.phoenixcontact.com/us/products/1438846>

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, PUR halogen-free, black-gray RAL 7021, free cable end, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode, cable length: 5 m

Commercial data

Item number	1438846
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	BF1DDA
GTIN	4046356496711
Weight per piece (including packing)	173.7 g
Weight per piece (excluding packing)	163.4 g
Customs tariff number	85444290
Country of origin	PL

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



1438846

<https://www.phoenixcontact.com/us/products/1438846>

Technical data

Product properties

Product type	Sensor/actuator cable with valve connector
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
Outer sheath, material	PVC

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

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 carriers)
	TPU (Housing)

Cable/line

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

PUR halogen-free black [PUR]

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



1438846

<https://www.phoenixcontact.com/us/products/1438846>

Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross section	3x 0.5 mm²
Wire diameter incl. insulation	1.5 mm ±0.05 mm (Signal line)
External cable diameter	4.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
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	min. 20 MΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 1200 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	22.5 mm
Smallest bending radius, movable installation	45 mm
Max. bending cycles	15000000
Bending radius	50 mm
Traversing path	0.9 m
Traversing rate	5 m/s
Acceleration	30 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	according to DIN VDE 0482
	According to DIN EN 50265-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
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)

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



1438846

<https://www.phoenixcontact.com/us/products/1438846>

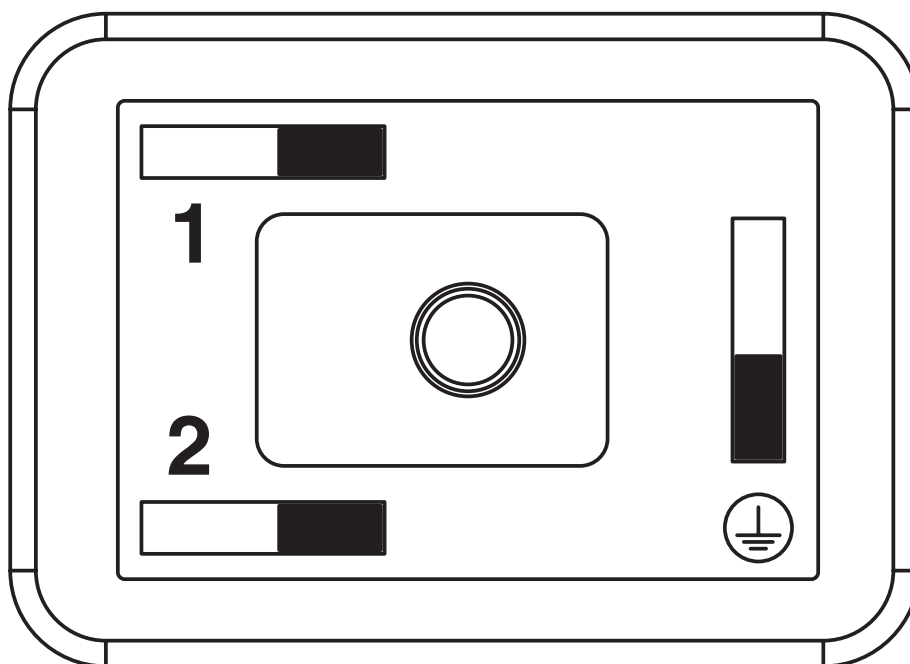
	-20 °C ... 80 °C (Cable, flexible installation)
--	---

Environmental and real-life conditions

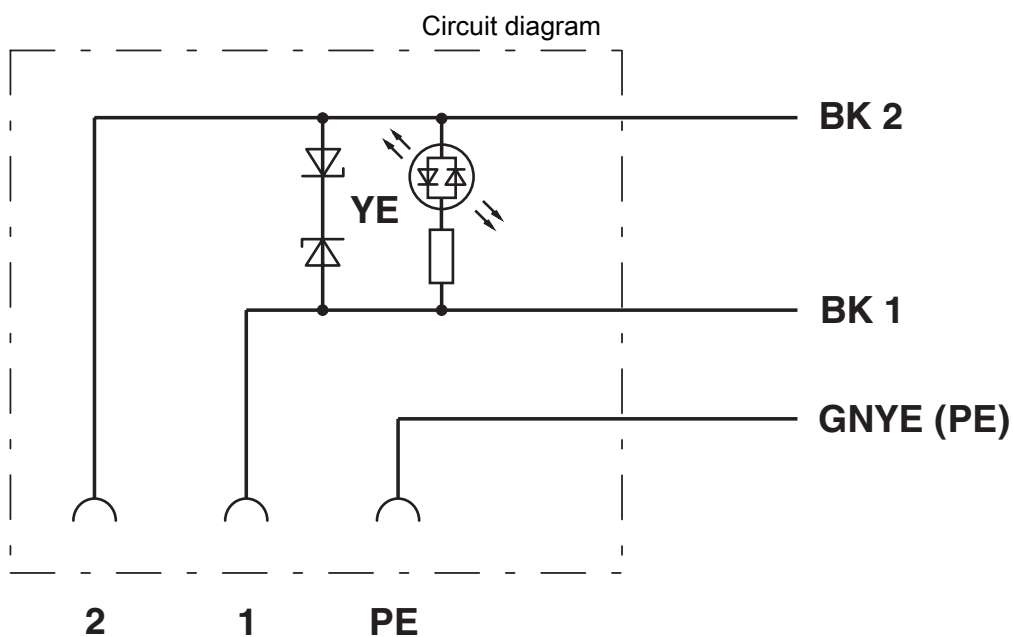
Ambient conditions	
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-20 °C ... 85 °C (valve plug)
	-40 °C ... 80 °C (cable, fixed installation)
	-15 °C ... 80 °C (Cable, flexible installation)

Drawings

Schematic diagram



Valve connector pin assignment, type BI

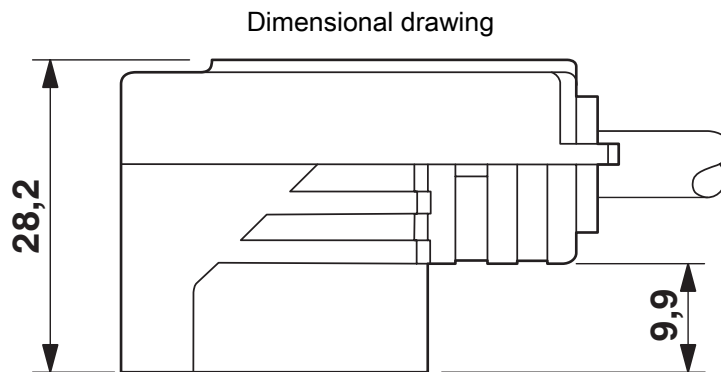


SAC-3P- 5,0-PUR/BI-1L-Z 180 - Sensor/actuator cable

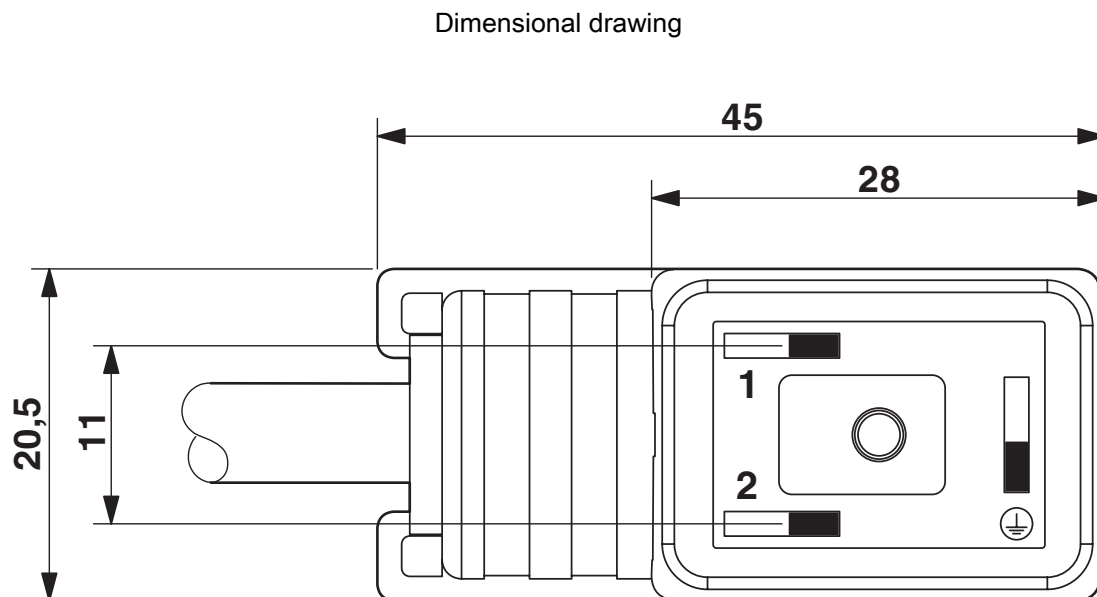


1438846

<https://www.phoenixcontact.com/us/products/1438846>



Valve connector, type BI, side view



Valve connector, type BI

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



1438846

<https://www.phoenixcontact.com/us/products/1438846>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1438846>



EAC-RoHS
Approval ID: RU D-DE.HB35.B.00387

	CSAus Approval ID: 13631			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	24 V	6 A	-	-

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



1438846

<https://www.phoenixcontact.com/us/products/1438846>

Classifications

ECLASS

ECLASS-11.0	27060312
ECLASS-12.0	27060312
ECLASS-13.0	27060312

ETIM

ETIM 8.0	EC001855
----------	----------

UNSPSC

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

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

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%
-------------------------------------	----------------------------

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



1438846

<https://www.phoenixcontact.com/us/products/1438846>

Accessories

SAC-V-SCREW-M3-29 KNURL - Screw

1403779

<https://www.phoenixcontact.com/us/products/1403779>

Fillister head screw with plastic knurl, M3 x 40



Phoenix Contact 2024 © - 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