

1439065

<https://www.phoenixcontact.com/pc/products/1439065>

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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), Wiring: unwired, cable length: 5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Our standard: robust halogen-free PUR cable

Commercial data

Item number	1439065
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	BF1DDA
Catalog page	Page 238 (C-2-2019)
GTIN	4046356496797
Weight per piece (including packing)	170.3 g
Weight per piece (excluding packing)	163.38 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P- 5,0-PUR/BI - 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	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	230 V AC
	230 V DC
Nominal current I_N	6 A

Valve connector characteristics

Fixing screws	M3 x 29
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Signaling

Status display	no
Status display present	No

Connector

Connection 1

Type	free cable end
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Connection 2

Type	Valve connector BI (11 mm)
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carriers)
	TPU (Housing)

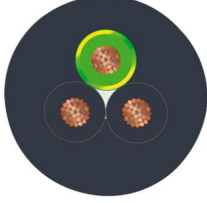
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Cable/line

Cable length	5 m
PUR halogen-free black [PUR]	
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 mm ²
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
Dynamic load capacity (bending)	Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s ²
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

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	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)

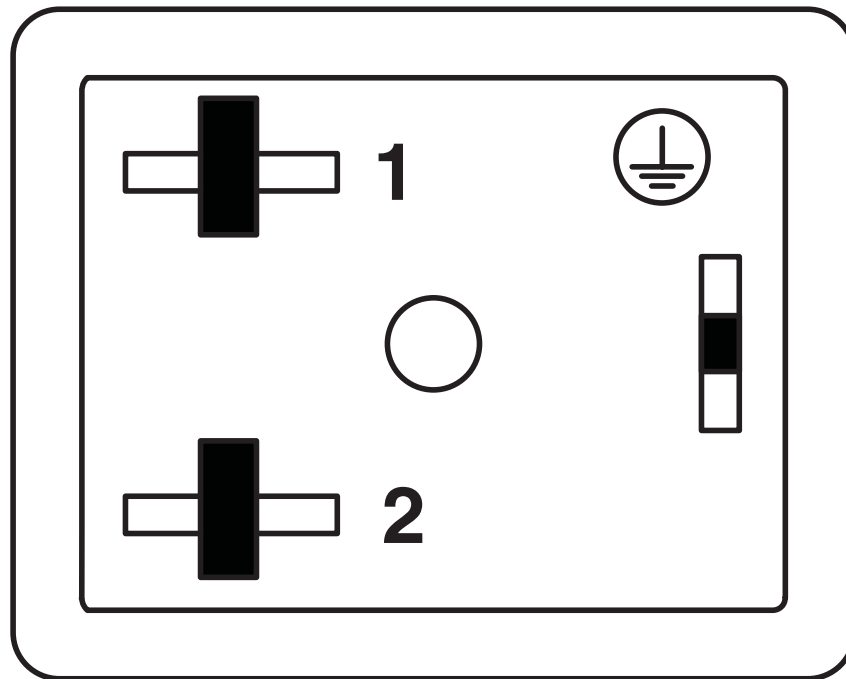
Environmental and real-life conditions

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

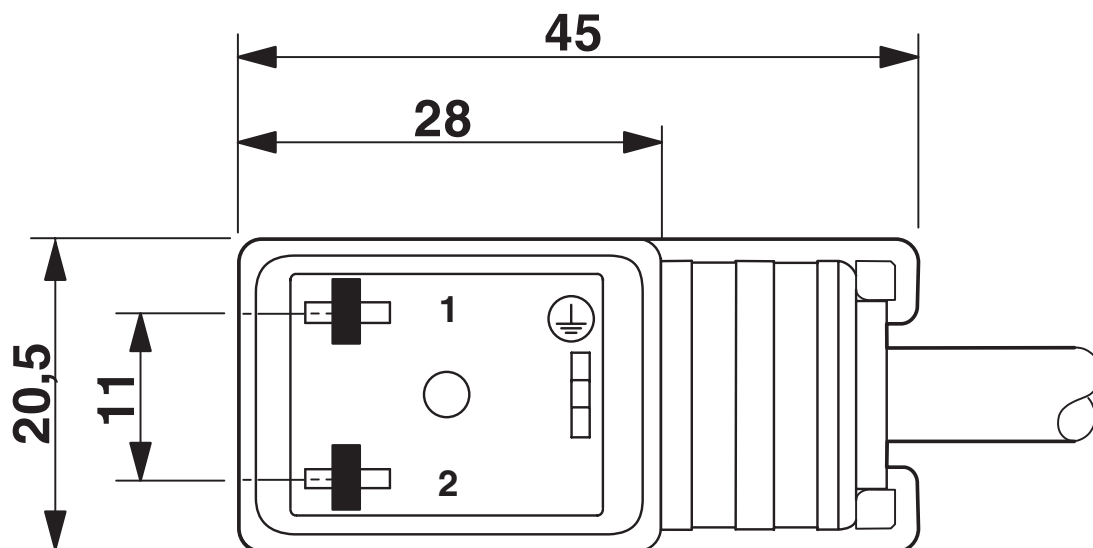
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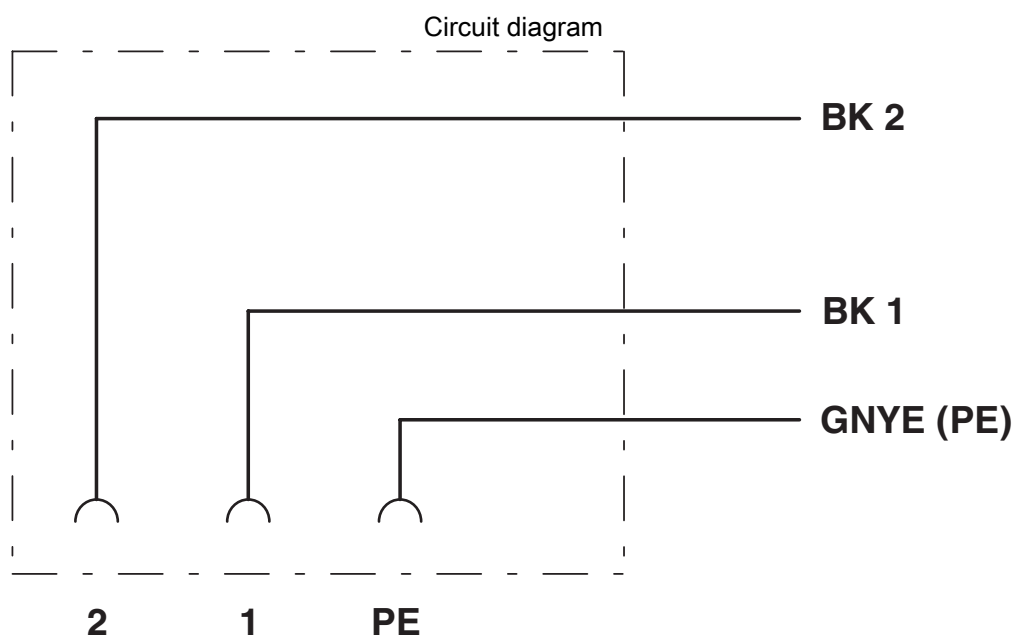
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Dimensional drawing



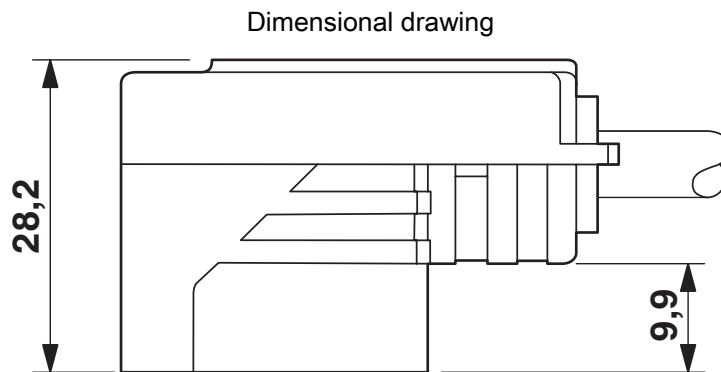
Valve connector, type BI



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Valve connector, type BI, side view

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1439065>



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
	230 V	6 A	-	-

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855
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UNSPSC

UNSPSC 21.0	31251500
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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%

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PHOENIX CONTACT GmbH & Co. KG
Flachmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com