

1415909

<https://www.phoenixcontact.com/pc/products/1415909>

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Sensor/actuator cable, 3-position, PVC, black RAL 9005, free cable end, on Valve connector A, with 1 LED, Wiring: Varistor, cable length: 3 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	1415909
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF1DAA
Catalog page	Page 231 (C-2-2019)
GTIN	4055626054742
Weight per piece (including packing)	137.1 g
Weight per piece (excluding packing)	133 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P- 3,0-PVC/A-1L-V - 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	24 V AC
	24 V DC
Nominal current I_N	4 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 A
Number of positions	3
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carriers)
	TPU (Housing)

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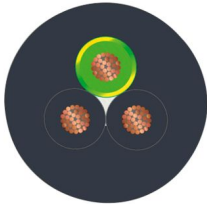
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Cable/line

Cable length	3 m
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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

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

Standards and regulations

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

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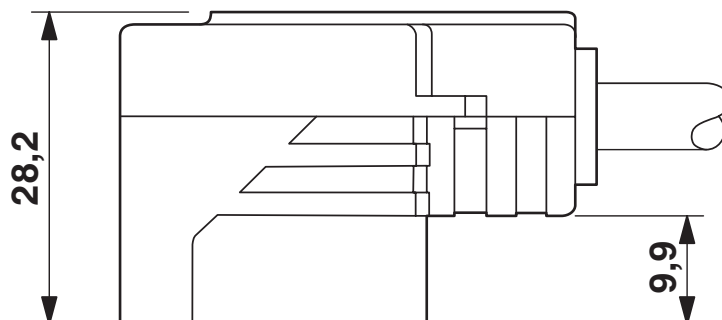
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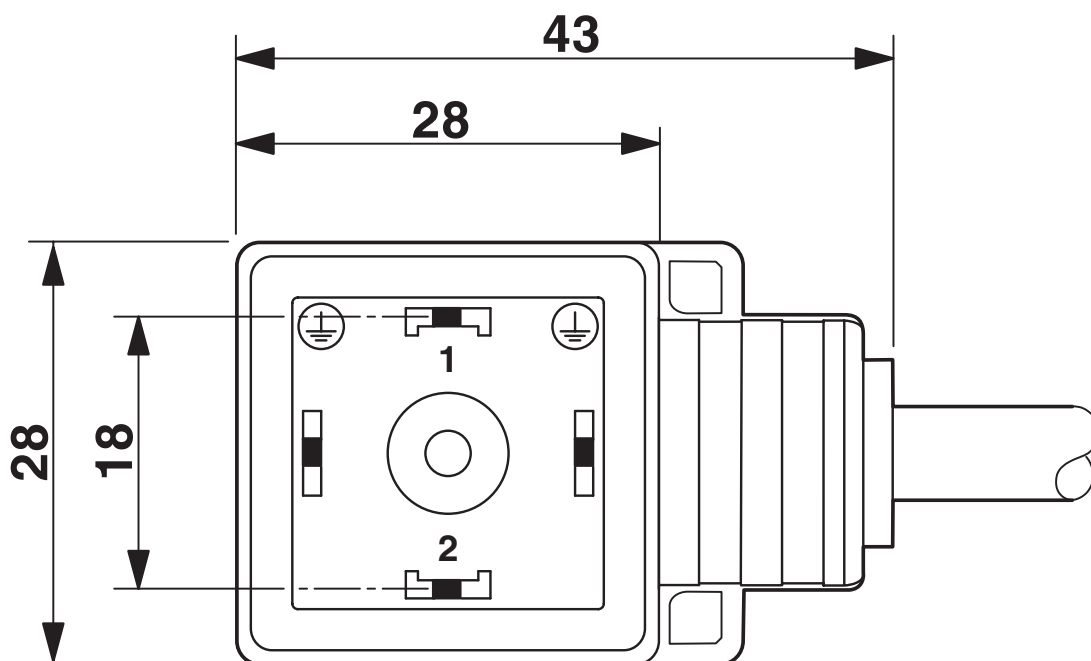
Drawings

Dimensional drawing



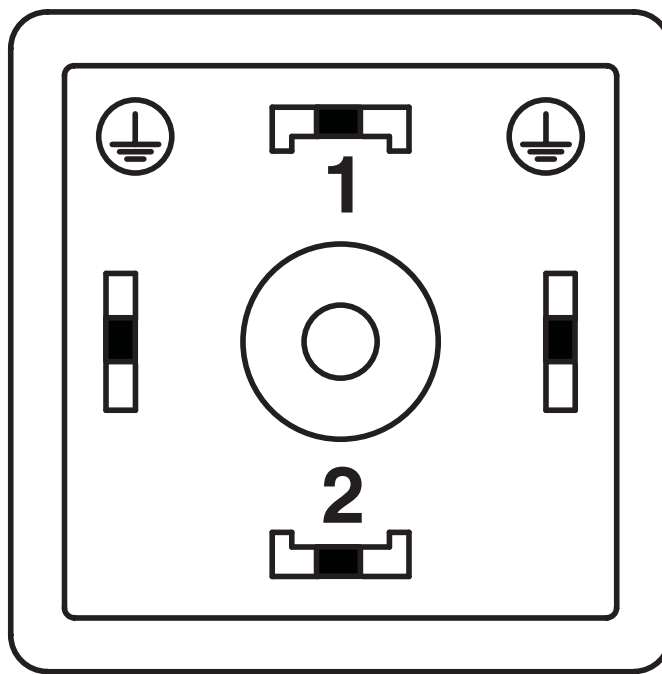
Valve connector, type A, side view

Dimensional drawing

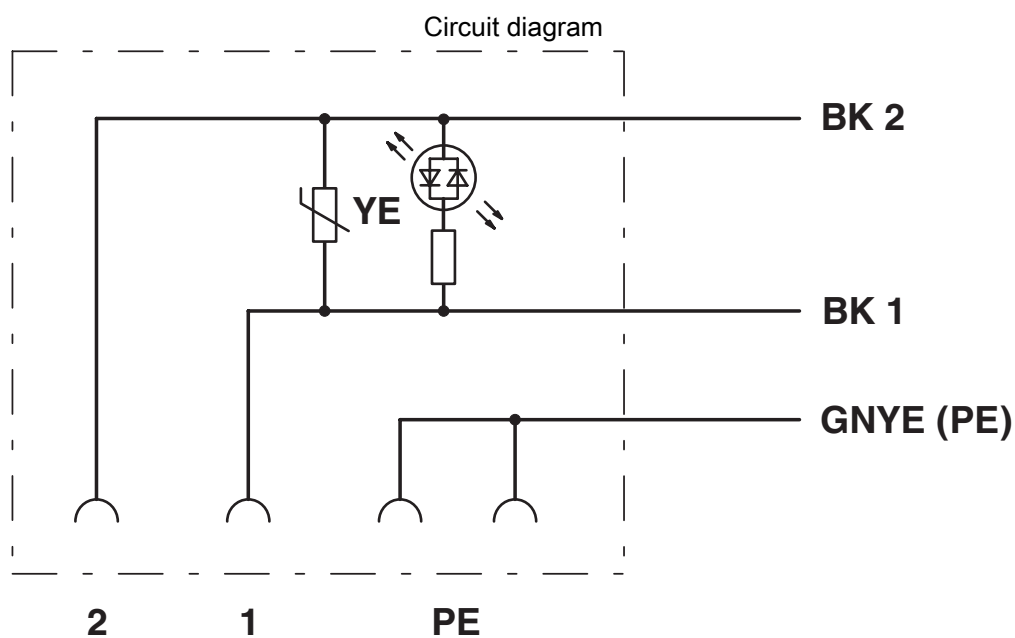


Valve connector, type A

Schematic diagram



Valve connector pin assignment, type A



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Approvals

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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	4 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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