

SAC-3P- 5,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407289

<https://www.phoenixcontact.com/ae/products/1407289>

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Sensor/actuator cable, 3-position, PUR halogen-free, black RAL 9005, free cable end, on Valve connector A, with 1 LED, connected with Z diode, cable length: 5 m, for outdoor applications, with stainless steel central screw and additional silicone seal (red)

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Stainless steel type 1.4404 used to provide corrosion protection for all exposed metal parts
- Robust throughout: resistant to oil, UV, and ozone, withstands temperatures from -20°C to +85°C
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial data

Item number	1407289
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1
Product key	BF1DAA
Catalog page	Page 180 (NTK-2014)
GTIN	4046356774079
Weight per piece (including packing)	255.433 g
Weight per piece (excluding packing)	255.433 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	3
Application	External areas
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
	Silicon
Material housing valve plug	TPU
Contact material	CuSn
Valve plug contact insert material	PA 6.6
Contact surface material	Sn

Electrical properties

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	24 V AC
	24 V DC
Nominal current I_N	4 A
Protective circuit	Z diode

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
	CuSn (Contact)

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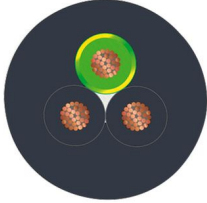
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Material	Sn (Contact surface)
	PA 6.6 (Contact carriers)
	TPU (Housing)

Cable/line

Cable length	5 m
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PUR halogen-free black [PUO]

Dimensional drawing	
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUO]
Conductor structure signal line	16x 0.20 mm
AWG signal line	20
Conductor cross section	3x 0.5 mm²
Wire diameter incl. insulation	2 mm ±0.05 mm
External cable diameter	5.90 mm ±0.1 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PP
Single wire, color	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
Max. conductor resistance	≤ 40.1 Ω/km
Insulation resistance	70 GΩ*km
Nominal voltage, cable	300 V
Test voltage Core/Core	3000 V (Spark test)
Minimum bending radius, fixed installation	10 x D
Minimum bending radius, flexible installation	15 x D
Smallest bending radius, fixed installation	59 mm
Smallest bending radius, movable installation	89 mm
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with EN 50267-2-1
Resistance to oil	According to DIN EN 50306
	According to DIN EN 60811-2-1, 138 h at 100°C
Other resistance	UV resistant
	hydrolysis and microbe resistant

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	Good resistance to aggressive media
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
	-15 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP66K (Observe tightening torque)
	IP67
	IP68
Ambient temperature (operation)	-40 °C ... 85 °C (valve plug)

Standards and regulations

Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

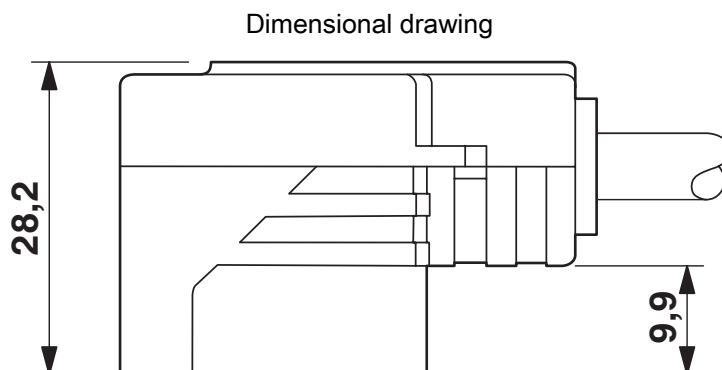
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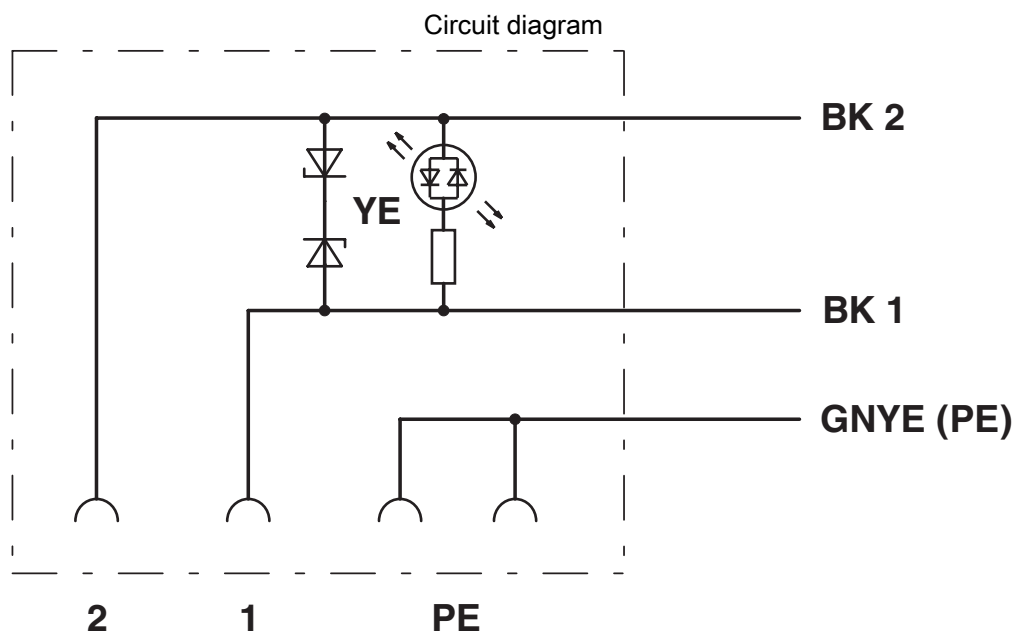
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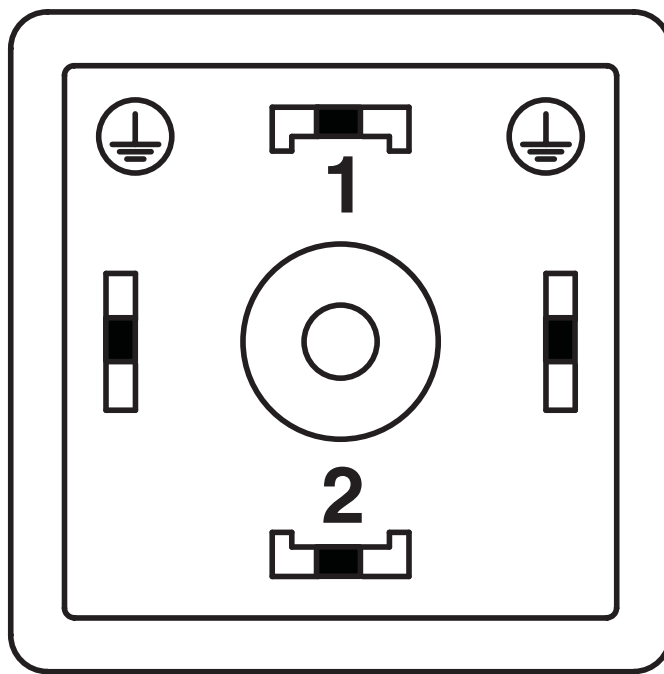
Drawings



Valve connector, type A, side view

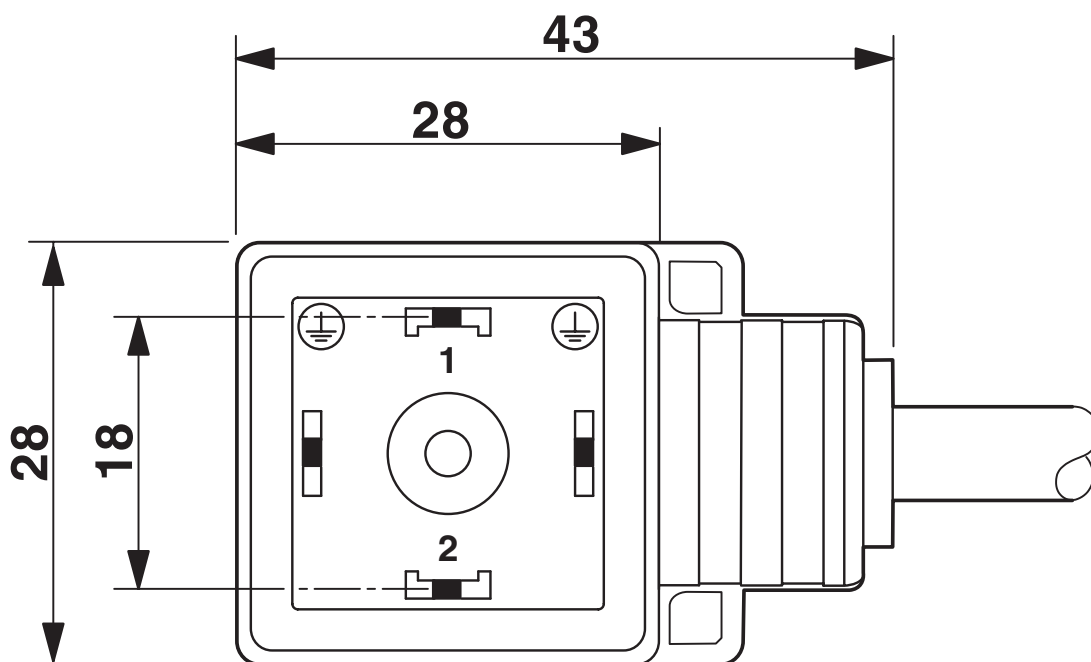


Schematic diagram



Valve connector pin assignment, type A

Dimensional drawing



Valve connector, 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

REACH SVHC	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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