

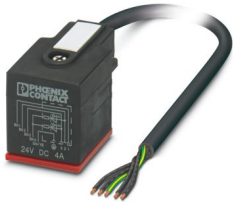
# SAC-5P- 1,5-PUO/AD-2L OD - Sensor/actuator cable



1407291

<https://www.phoenixcontact.com/us/products/1407291>

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Sensor/actuator cable, 5-position, PUR halogen-free, black RAL 9005, free cable end, on Valve connector AD (pressure switch), with 2 LEDs, Wiring: unwired, cable length: 1.5 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 ... +85 °C

## Commercial data

Item number	1407291
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF07
Product key	AF1DBA
GTIN	4046356774093
Weight per piece (including packing)	134.4 g
Weight per piece (excluding packing)	134.4 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
Application	External areas
Number of positions	5
No. of cable outlets	1
Shielded	no

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

#### Conductor connection

Tightening torque	0.6 Nm ... 0.8 Nm (0.8 Nm for IP66K)
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### 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
Contact surface material	Sn

### Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	24 V DC
Nominal current $I_N$	4 A

#### Valve connector characteristics

Fixing screws	M3 x 29
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### Signaling

Status display	2 LEDs
Status display present	yes

### Connector

#### Connection 1

Type	free cable end
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#### Connection 2

Type	Valve connector AD (pressure switch)
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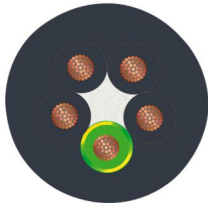
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Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6 (Contact carrier)
	TPU (Housing)
Protective circuit	unwired

## Cable/line

Cable length	1.5 m
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PUR halogen-free black [PUO]

Dimensional drawing	
Number of positions	5
Shielded	no
Cable type	PUR halogen-free black [PUO]
Conductor structure signal line	16x 0.20 mm
AWG signal line	20
Conductor cross-section	5x 0.5 mm <sup>2</sup>
Wire diameter incl. insulation	2 mm ±0.05 mm
External cable diameter	6.90 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, black 3, black 4, green/yellow
Overall twist	5 cores, 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	69 mm
Smallest bending radius, movable installation	104 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

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Other resistance	UV resistant
	hydrolysis and microbe resistant
	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) (Valve connector)	-40 °C ... 85 °C (Valve connector)

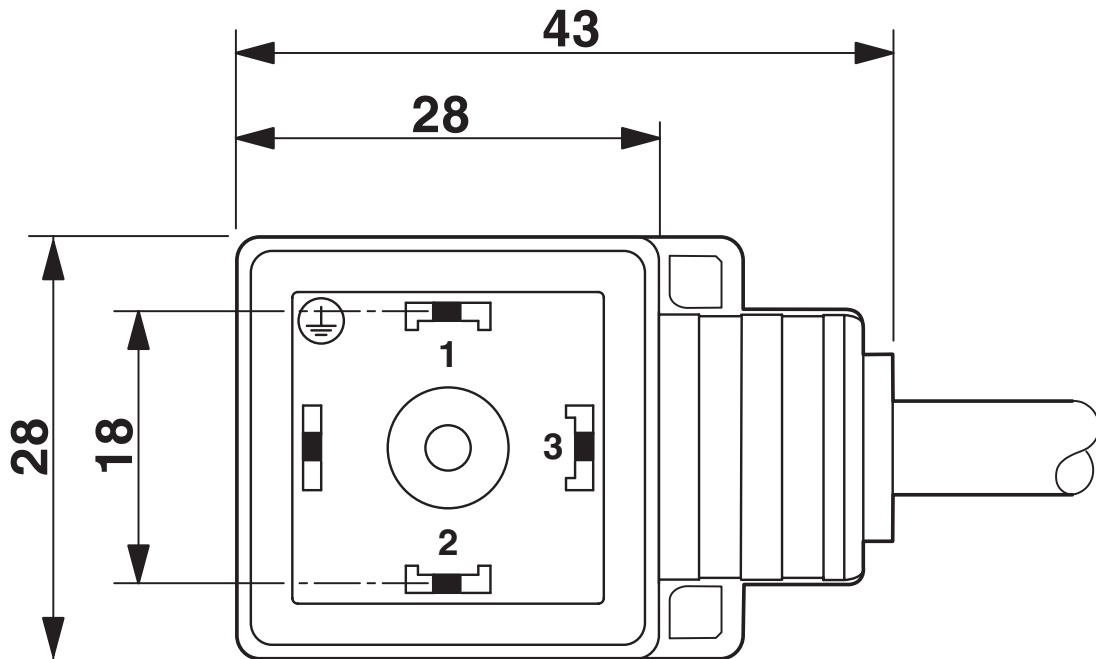
## Standards and regulations

### Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

Drawings

Dimensional drawing



Valve connector, type AD

Dimensional drawing



Valve connector, type AD, side view

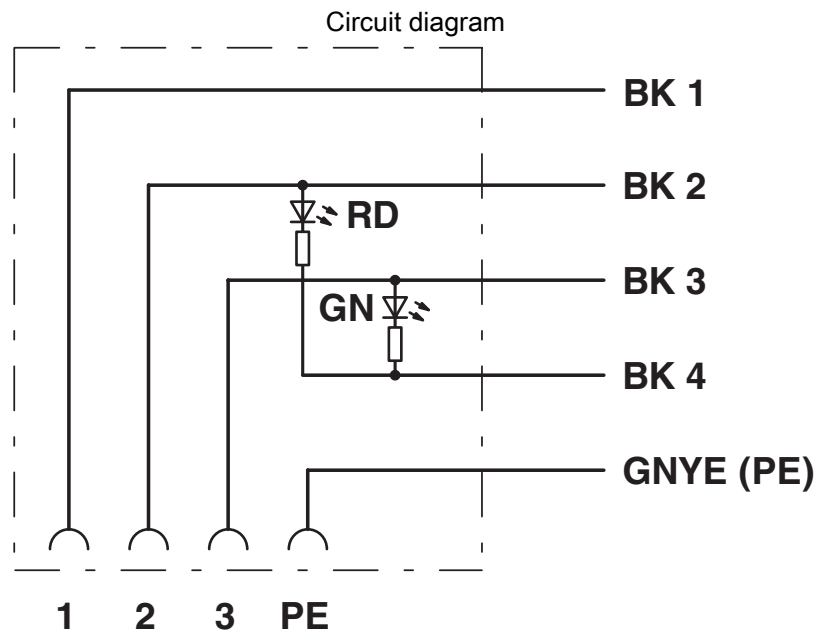
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Schematic diagram



Valve plug connector pin assignment, type AD



Contact assignment of the valve plug

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## Classifications

### ECLASS

ECLASS-13.0	27060312
ECLASS-15.0	27060312

### UNSPSC

UNSPSC 21.0	31251501
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## Environmental product compliance

### 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%
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