

Sensor/actuator cable - SAC-3P- 5,0-PUO/A-1L-Z OD - 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
- ✓ Robust valve connector with Zener diode as protective circuit
- ✓ Corrosion protection for all exposed metal parts, thanks to the use of stainless steel type 1.4404
- ✓ 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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 774079
GTIN	4046356774079

Technical data

Dimensions

Length of cable	5 m
Central screw valve connector	M3 x 29

Ambient conditions

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

General

Rated current at 40°C	4 A
Rated voltage	24 V AC

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Technical data

General

	24 V DC
Number of positions	3
Color handle area	black
Insulation resistance	≥ 100 MΩ
Standards/regulations	Valve connector EN 175301-803
Status display	1 LED
Protective circuit/component	Z diode
Overvoltage category	III
Degree of pollution	3
Torque	0.6 Nm ... 0.8 Nm (Valve connector)
Tightening torque	0.8 Nm for IP66K

Material

Flammability rating according to UL 94	V0
Valve plug contact material	CuSn
Valve plug contact surface material	Sn
Valve plug contact insert material	PA 6.6
Material housing valve plug	TPU
Sealing material	TPU (Seal molded)
	Silicon (Seal snapped in)

Standards and Regulations

Standards/specifications	Valve connector EN 175301-803
Flammability rating according to UL 94	V0

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUO
Cable abbreviation	Li9Y11Y
Conductor cross section	3x 0.5 mm ²
AWG signal line	20
Conductor structure signal line	16x 0.20 mm
Core diameter including insulation	2 mm ±0.05 mm
Wire colors	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
External sheath, color	black RAL 9005
External cable diameter D	5.9 mm ±0.1 mm
Minimum bending radius, fixed installation	10 x D
Minimum bending radius, flexible installation	15 x D
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Tin-plated Cu litz wires

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Technical data

Cable

Insulation resistance	70 GΩ*km
Conductor resistance	≤ 40.1 Ω/km
Nominal voltage, cable	300 V
Test voltage Core/Core	3000 V (Spark test)
Halogen-free	in accordance with DIN VDE 0472 part 815
	According to 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
	Good resistance to aggressive media
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
	-15 °C ... 105 °C (cable, flexible installation)

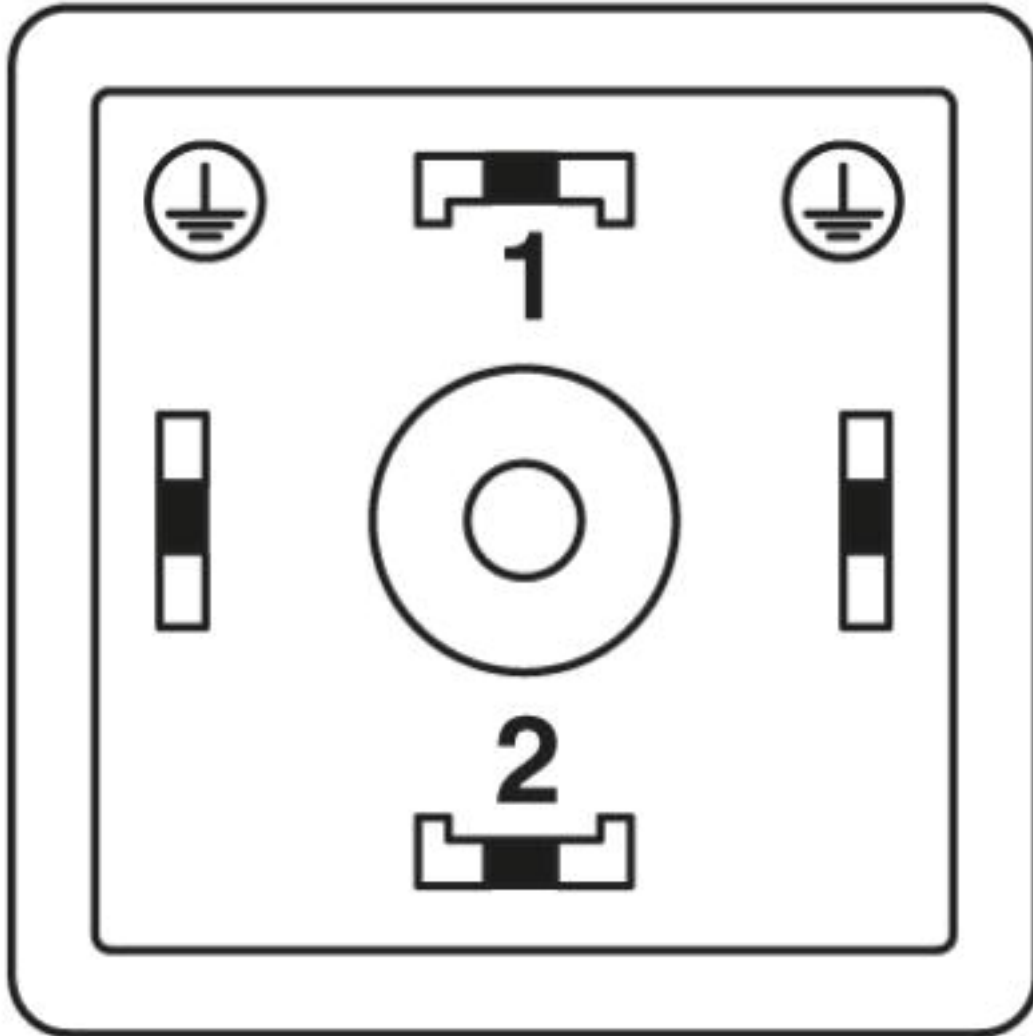
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Sensor/actuator cable - SAC-3P- 5,0-PUO/A-1L-Z OD - 1407289

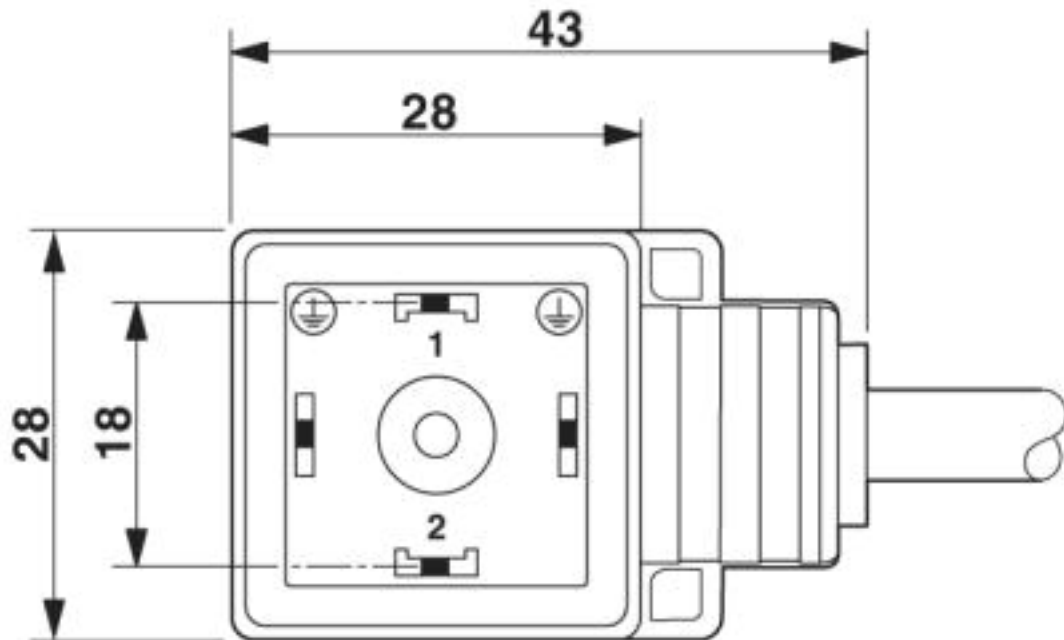
Schematic diagram



Valve connector pin assignment, type A

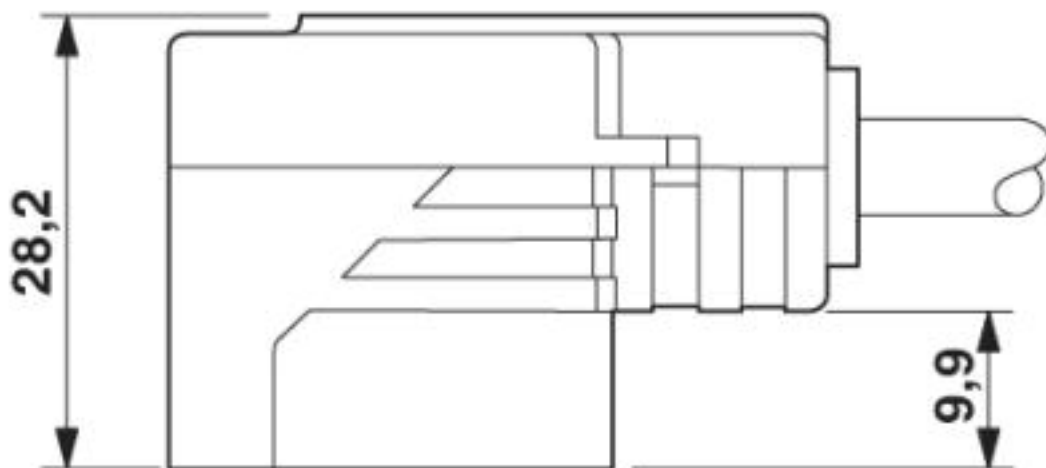
Sensor/actuator cable - SAC-3P- 5,0-PUO/A-1L-Z OD - 1407289

Dimensional drawing



Valve connector, type A

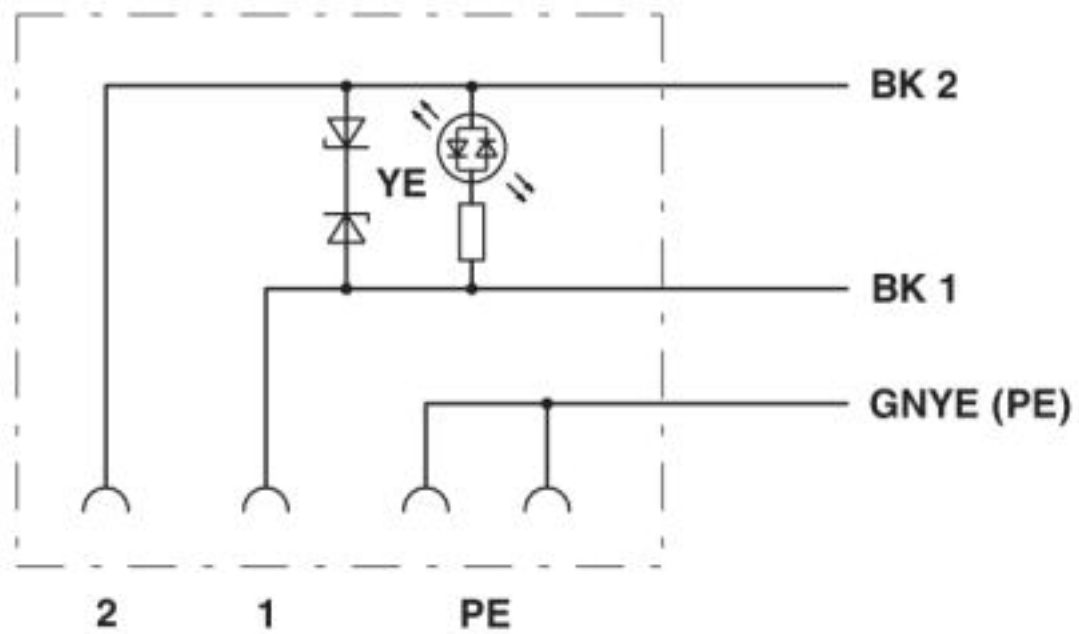
Dimensional drawing



Valve connector, type A, side view

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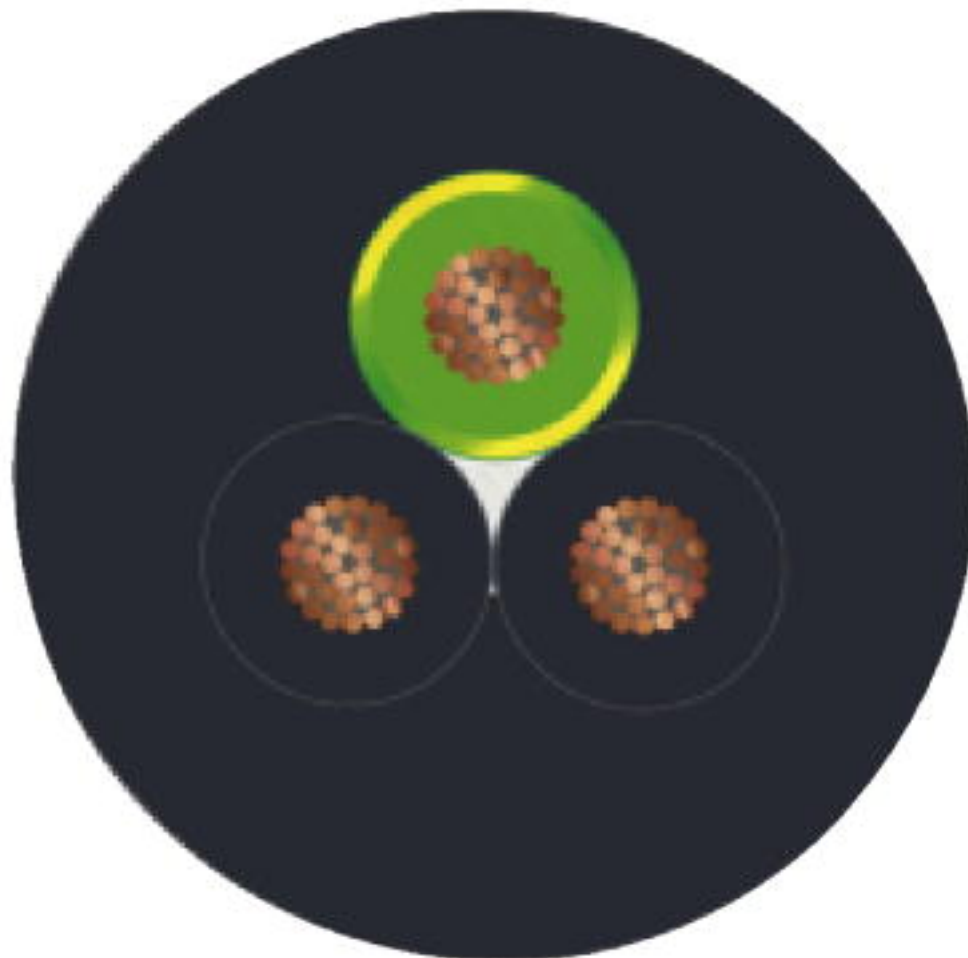
Circuit diagram



Contact assignment of the valve plug

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Cable cross section



PUR halogen-free black [PUO]

Classifications

eCl@ss

eCl@ss 10.0.1	27060312
eCl@ss 4.0	27060300
eCl@ss 4.1	27060300
eCl@ss 5.0	27061800
eCl@ss 5.1	27061800
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060312

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Classifications

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

Approvals

Approvals

Approvals

CSAus

Ex Approvals

Approval details

CSAus		http://www.csagroup.org/services-industries/product-listing/	13631
Nominal voltage UN		24 V	
Nominal current IN		4 A	

Accessories

Accessories

Seal

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Accessories

Seal - SAC-VP-SEAL-SIL/RD OD - 1410695



Seal set for valve connectors A and AD, for outdoor applications, consisting of silicone seal and latching

Torque tool

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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