

SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

<https://www.phoenixcontact.com/us/products/1407290>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-position, PUR halogen-free, black RAL 9005, free cable end, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 10 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
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial data

Item number	1407290
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	BF1DAA
Catalog page	Page 180 (NTK-2014)
GTIN	4046356774086
Weight per piece (including packing)	461.9 g
Weight per piece (excluding packing)	461.9 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

<https://www.phoenixcontact.com/us/products/1407290>

Technical data

Product properties

Product type	Sensor/actuator cable with valve connector
Application	External areas
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
	Silicon
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
---------------	---------

Signaling

Status display	1 LED
Status display present	Yes

Connector

Connection 1

Type	free cable end
------	----------------

Connection 2

Type	Valve connector A
Number of positions	3
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carriers)

SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

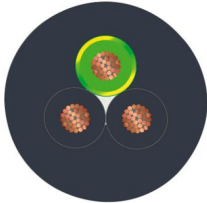
<https://www.phoenixcontact.com/us/products/1407290>

	TPU (Housing)
--	---------------

Cable/line

Cable length	10 m
--------------	------

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

SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

<https://www.phoenixcontact.com/us/products/1407290>

	-15 °C ... 105 °C (Cable, flexible installation)
--	--

Environmental and real-life conditions

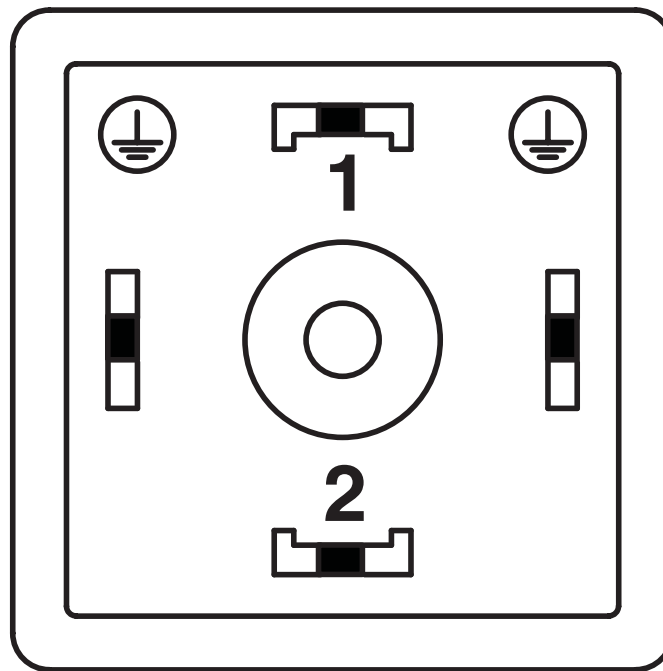
Ambient conditions	
Degree of protection	IP65
	IP66K (Observe tightening torque)
	IP67
	IP68
Ambient temperature (operation)	-40 °C ... 85 °C (valve plug)

Standards and regulations

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

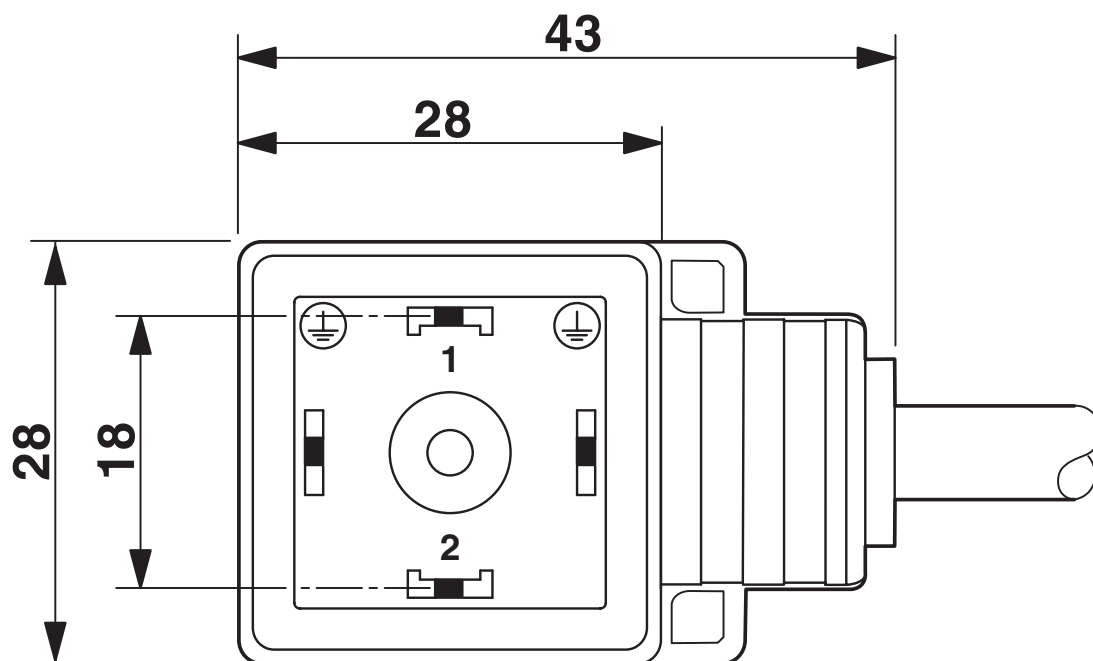
Drawings

Schematic diagram



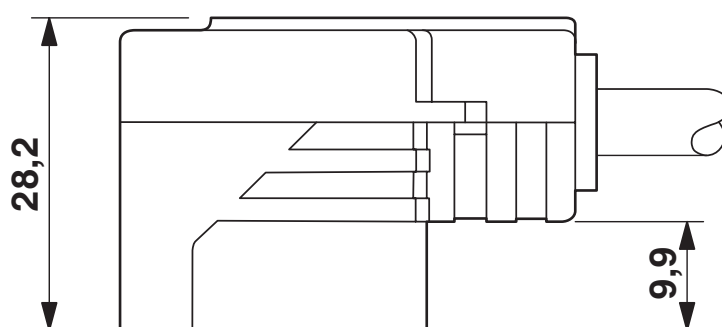
Valve connector pin assignment, type A

Dimensional drawing



Valve connector, type A

Dimensional drawing



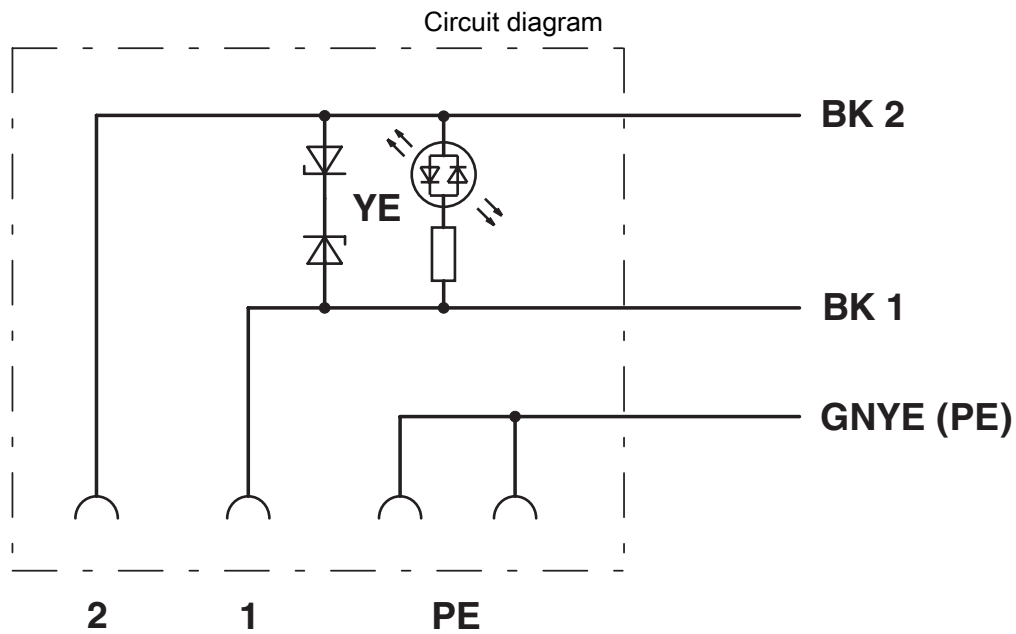
Valve connector, type A, side view

SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

<https://www.phoenixcontact.com/us/products/1407290>



SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

<https://www.phoenixcontact.com/us/products/1407290>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1407290>



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	-	-

SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

<https://www.phoenixcontact.com/us/products/1407290>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	31251500
-------------	----------

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I
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.

SAC-3P-10,0-PUO/A-1L-Z OD - Sensor/actuator cable



1407290

<https://www.phoenixcontact.com/us/products/1407290>

Accessories

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

1410695

<https://www.phoenixcontact.com/us/products/1410695>

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



TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>

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



Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com