

1435690

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Valve connector CI (9.4 mm), with 1 LED, Wiring: Z diode, 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
- · Our standard: robust halogen-free PUR cable

#### Commercial data

Item number	1435690
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	AF1DFA
GTIN	4046356413930
Weight per piece (including packing)	109.5 g
Weight per piece (excluding packing)	99.9 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	Standard	
Number of positions	3	
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 (Valve connector)

### 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	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	24 V AC
	24 V DC
Nominal current I <sub>N</sub>	4 A

### Valve connector characteristics

Fixing screws	M3 x 29
Pulse power	40 W (at 100 μs square-wave pulse)
Terminal voltage	70 V (at 2 mA constant current)
Reverse voltage	50 V

## Signaling

Status display	1 LED
Status display present	yes

### Connector

#### Connection 1

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Type	free cable end
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#### Connection 2

Туре	Valve connector CI (9.4 mm)
Number of positions	3
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carrier)
	TPU (Housing)
Protective circuit	Z diode

### Cable/line

Cable length	3 m
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### PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	30 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross section	3x 0.5 mm²
Wire diameter incl. insulation	1.5 mm ±0.05 mm (Signal line)
External cable diameter	4.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
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	min. 20 MΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 1200 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	22.5 mm



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Smallest bending radius, movable installation	45 mm
Dynamic load capacity (bending)	Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	according to DIN VDE 0482
	According to DIN EN 50265-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	largely oil-resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP65	
	IP67	
Ambient temperature (operation) (Valve connector)	-20 °C 85 °C (Valve connector)	

### Standards and regulations

#### Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

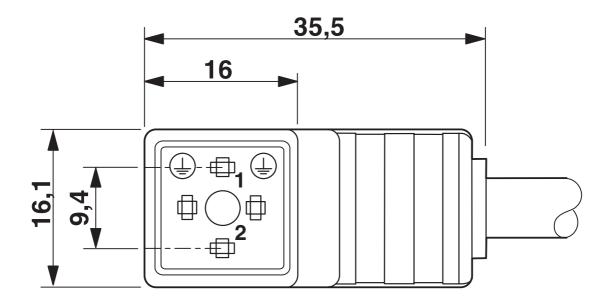


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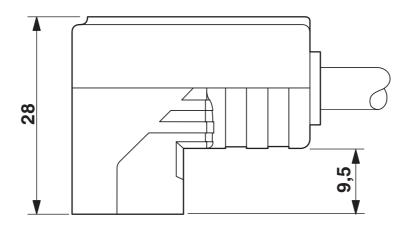
# Drawings

## Dimensional drawing



Valve connector, type CI

## Dimensional drawing



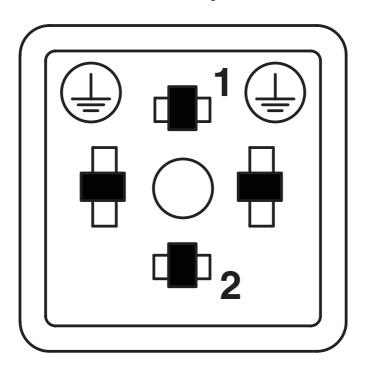
Valve connector, type CI, side view



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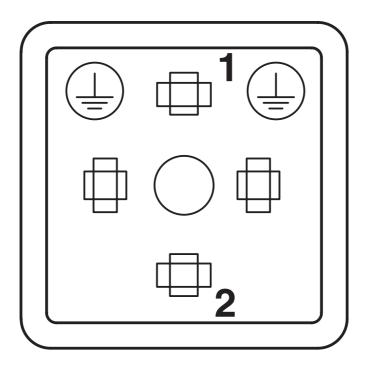
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## Schematic diagram



Valve connector connector pin assignment, type CI

Schematic diagram

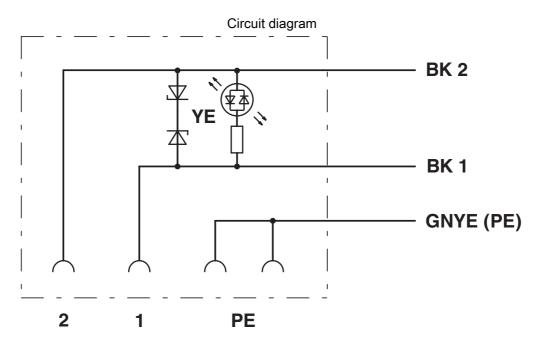


Valve connector connector pin assignment, type CI



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Contact assignment of the valve plug



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## **Approvals**

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CSAus Approval ID: 13631	CSAus Approval ID: 13631			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	24 V	6 A	-	-



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# Classifications

### **ECLASS**

	ECLASS-13.0	27060312		
	ECLASS-15.0	27060312		
ETIM				
ETIM				
	ETIM 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	31251500		



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# 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.	
EU REACH SVHC		
REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)	
	Lead monoxide (lead oxide)(CAS: 1317-36-8)	
EF3.0 Climate Change		
CO2e kg	1.057 kg CO2e	

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