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Sensor/Actuator cable - SAC-3P- 1,5-PUR/BI-1L-R-ES - 1401340

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Sensor/Actuator cable, 3-position, PUR, black, free cable end, on Valve connector BI (11 mm), with 1 LED, connected with Damping diode, Cable length: 1.5 m, With holding current limiting device for energy reduction

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 924597

Technical data

Dimensions

Length of cable	1.5 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 80 °C (valve plug)
Degree of protection	IP67

General

Rated current at 40°C	1 A
Rated voltage	24 V DC ±20 %
Number of positions	3
Insulation resistance	≥ 100 MΩ
Status display	1 LED
Protective circuit/component	Freewheeling diode with holding current limiting device
Switch-over time	approx. 200 ms (Initial operating time)
Clock frequency	approx. 2500 Hz (Holding current limiting device)
Switching frequency	max. 5 Hz (Connected valve)

Material

Valve plug contact material	CuSn
Valve plug contact surface material	Ag
Valve plug contact insert material	PA 66
Material housing valve plug	TPU
Sealing material	TPU (Seal molded)

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Technical data

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549
Conductor cross section	3x 0.5 mm ²
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	1.5 mm ±0.05 mm (Signal line)
Wire colors	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
External sheath, color	black-gray RAL 7021
External cable diameter D	4.5 mm ±0.2 mm
Smallest bending radius, fixed installation	22.5 mm
Number of bending cycles	15000000
Bending radius	50 mm
Traversing path	0.9 m
Traversing rate	5 m/s
Acceleration	30 m/s ²
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	min. 20 MΩ*km
Conductor resistance	39 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 1200 V
Flame resistance	According to DIN VDE 0482
	According to DIN EN 50265-2-1
Halogen-free	in accordance with DIN VDE 0472 part 815
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)

Classifications

eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 8.0	27279218

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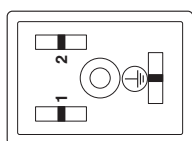
Classifications

ETIM

ETIM 4.0	EC001855
ETIM 5.0	EC001855

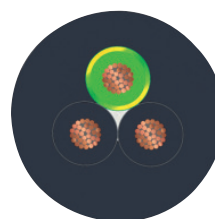
Drawings

Schematic diagram



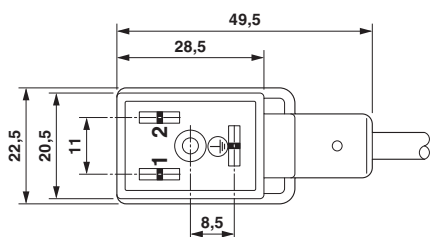
Valve connector pin assignment, type BI

Cable cross section



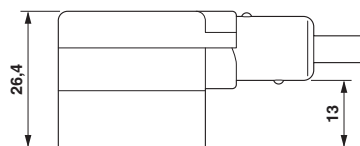
PUR halogen-free black [PUR]

Dimensional drawing



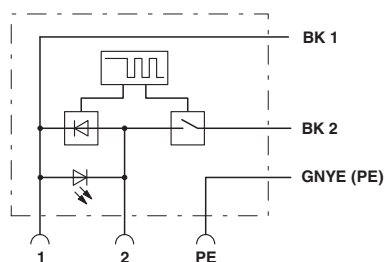
Valve connector, type BI

Dimensional drawing



Valve connector, type BI, side view

Circuit diagram



Contact assignment of the valve plug

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