

# Sensor/Actuator cable - SAC-3P- 3,0-116/A-1L-Z - 1453384

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Sensor/Actuator cable, 3-position, PUR/PVC, Black RAL 9005, Free cable end, on Valve connector A, with 1 LED, Cable length: 3 m

## Key commercial data

package_quantity	1
GTIN	4046356552943

## Technical data

### Dimensions

Length of cable	3 m
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### Ambient conditions

Degree of protection	IP65
Degree of protection	IP67

### General

Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Status display	1 LED
Protective circuit/component	Z diode
Surge voltage category	III
Pollution degree	3

### Material

Inflammability class according to UL 94	V0
Valve plug contact material	CuSn
Valve plug contact surface material	Sn
Valve plug contact insert material	PA 66
Material housing valve plug	TPU
Sealing material	TPU (Seal molded)

### Cable

Cable type	PUR/PVC, 0.75 mm <sup>2</sup> , black
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### Technical data

#### Cable

<b>Cable type (abbreviation)</b>	116
<b>Cable abbreviation</b>	LiYY11Y
<b>UL AWM style</b>	20549
<b>Conductor cross section</b>	3x 0.75 mm <sup>2</sup> (signal line)
<b>AWG signal line</b>	18
<b>Conductor structure signal line</b>	24x 0.20 mm
<b>Core diameter including insulation</b>	1.7 mm ±0.05 mm
<b>Wire colors</b>	black 1, black 2, green/yellow
<b>Overall twist</b>	3 wires, twisted
<b>External sheath, color</b>	Black RAL 9005
<b>External cable diameter</b>	5.80 mm
<b>Smallest bending radius, fixed installation</b>	58 mm
<b>Number of bending cycles</b>	1000000
<b>Bending radius</b>	58 mm
<b>Traversing path</b>	10 m
<b>Traversing rate</b>	2 m/s
<b>Acceleration</b>	2.5 m/s <sup>2</sup>
<b>Outer sheath, material</b>	PUR
<b>Material, inner sheath</b>	PVC
<b>Material conductor insulation</b>	PVC
<b>Conductor material</b>	Bare Cu litz wires
<b>Insulation resistance</b>	≥ 20 MΩ*km
<b>Conductor resistance</b>	26 Ω/km (at 20 °C)
<b>Nominal voltage, cable</b>	300 V
<b>Test voltage, cable</b>	1200 V
<b>Special properties</b>	Flexible cable conduit capable
<b>Special properties</b>	Silicone-free
<b>Special properties</b>	Free of substances which would hinder coating with paint or varnish
<b>Flame resistance</b>	DIN VDE 0482
<b>Flame resistance</b>	DIN EN 50265-2-1
<b>Flame resistance</b>	In accordance with UL FT-2
<b>Other resistance</b>	Highly resistant to acids, alkaline solutions and solvents
<b>Other resistance</b>	hydrolysis and microbe resistant
<b>Ambient temperature (operation)</b>	-40 °C ... 80 °C (cable, fixed installation)
<b>Ambient temperature (operation)</b>	-5 °C ... 80 °C (cable, flexible installation)

### classifications

#### eCl@ss

<b>eCl@ss 4.0</b>	27060306
<b>eCl@ss 4.1</b>	27060306

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### classifications

#### eCl@ss

eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

#### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

#### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

### accessories

#### Mounting material

SAC-V-SCREW-M3-29 KNURL - 1403779

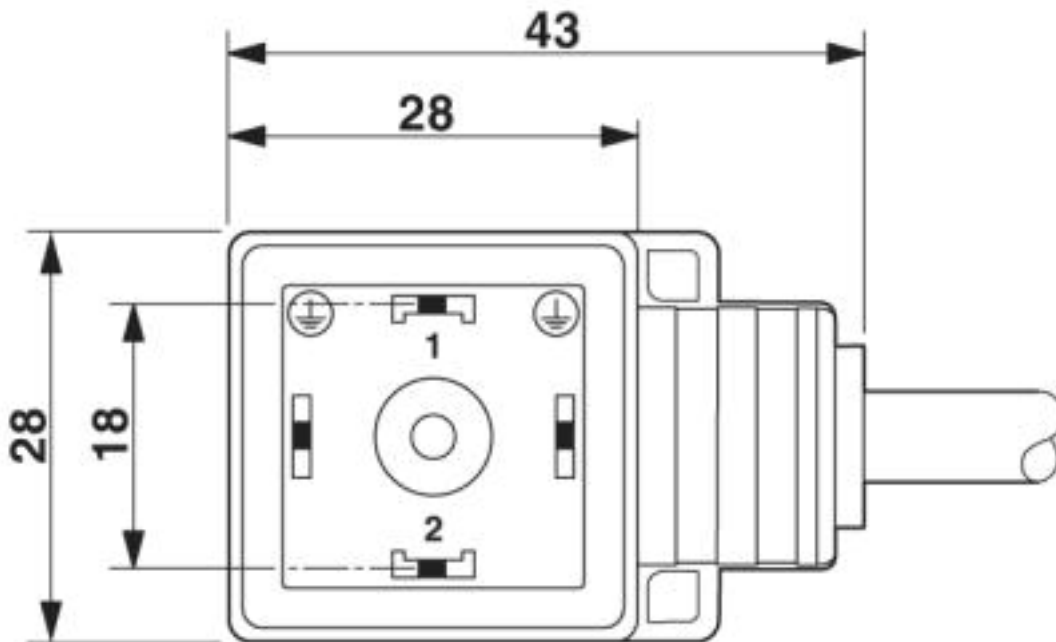


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### Drawings

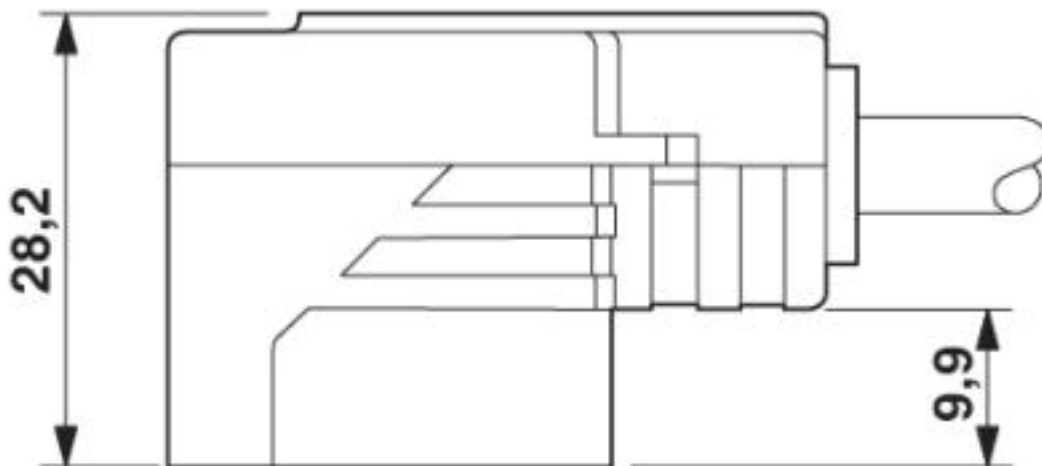
# Sensor/Actuator cable - SAC-3P- 3,0-116/A-1L-Z - 1453384

Dimensioned drawing



Valve connector, type A

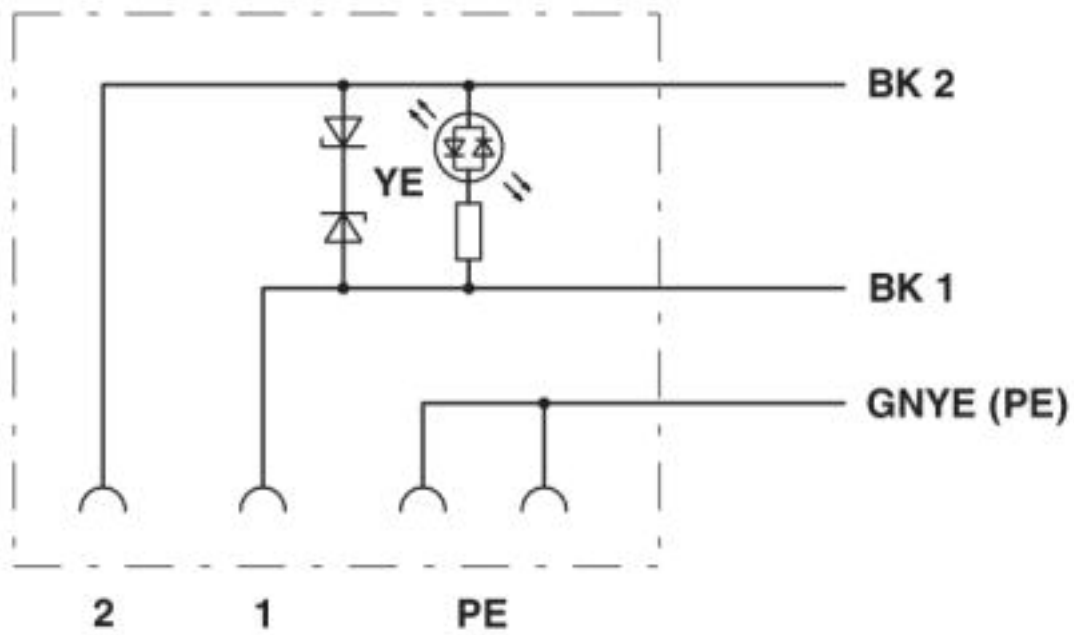
Dimensioned drawing



Valve connector, type A, side view

# Sensor/Actuator cable - SAC-3P- 3,0-116/A-1L-Z - 1453384

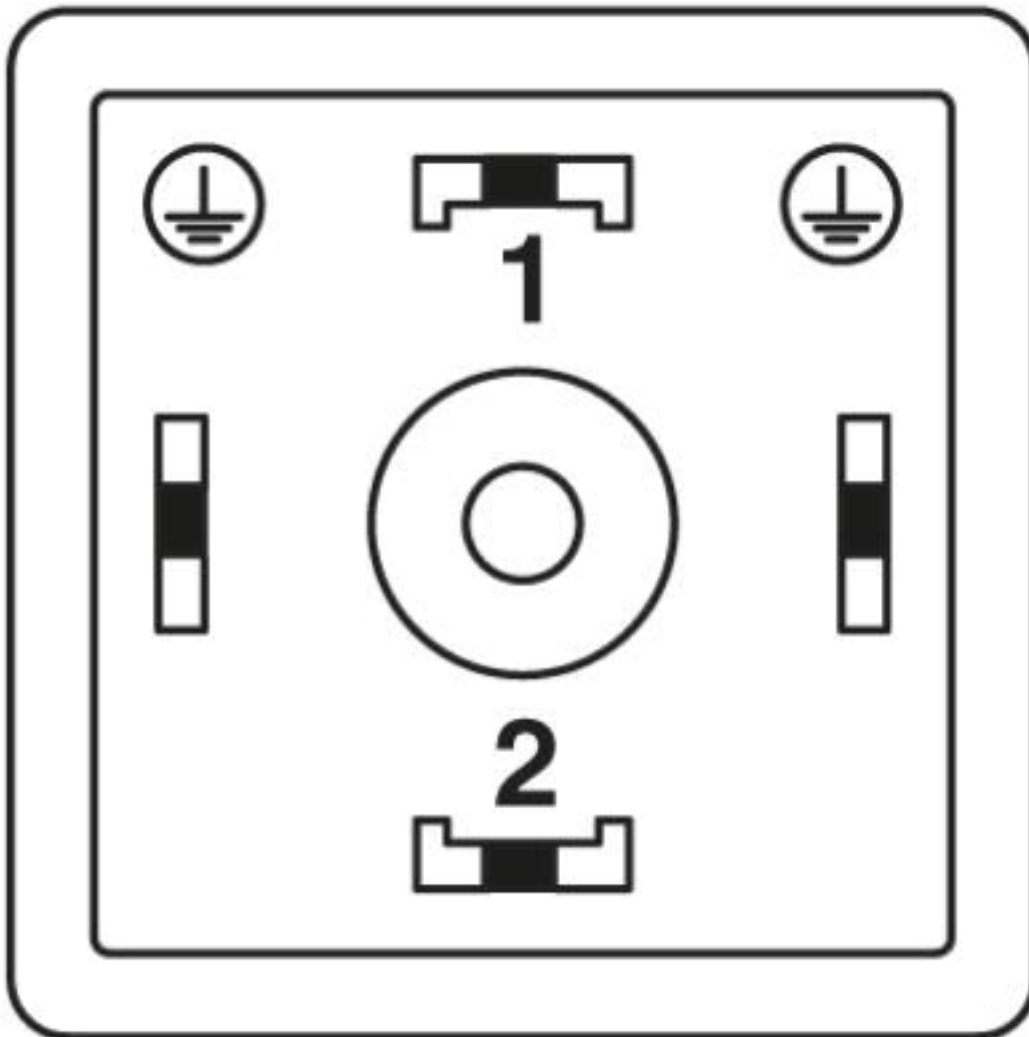
Circuit diagram



Contact assignment of the valve plug

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Schematic diagram



Valve connector pin assignment, type A

## Sensor/Actuator cable - SAC-3P- 3,0-116/A-1L-Z - 1453384

Cable cross section



PUR/PVC black [116]

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