

## Sensor/Actuator cable - SAC-3P- 5,0-PVC/A-1L-V - 1415910

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Sensor/Actuator cable, 3-position, PVC, Black RAL 9005, free cable end, on Valve connector A, with 1 LED, connected with Varistor, Cable length: 10 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector with varistor as protective circuit
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 pc     |
| Custom tariff number | 85444290 |
| Country of origin    | Poland   |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 m |
|-----------------|------|

#### Ambient conditions

|                                 |                               |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -20 °C ... 85 °C (valve plug) |
| Degree of protection            | IP65                          |
|                                 | 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 |

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### Technical data

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Standards/regulations        | Valve connector EN 175301-803 |
| Status display               | 1 LED                         |
| Protective circuit/component | Varistor                      |
| 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                                 | PVC black                      |
| Cable type (abbreviation)                  | PVC                            |
| Cable abbreviation                         | LiYY                           |
| UL AWM style                               | 2464                           |
| Conductor cross section                    | 3x 0.5 mm <sup>2</sup>         |
| AWG signal line                            | 20                             |
| Conductor structure signal line            | 16x 0.20 mm                    |
| Core diameter including insulation         | 1.5 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                  | 4.8 mm ±0.2 mm                 |
| Minimum bending radius, fixed installation | 5 x D                          |
| Outer sheath, material                     | PVC                            |
| Material conductor insulation              | PVC                            |
| Conductor material                         | Bare Cu litz wires             |
| Insulation resistance                      | ≥ 20 MΩ*km                     |
| Conductor resistance                       | 39 Ω/km (at 20 °C)             |
| Nominal voltage, cable                     | 300 V                          |
| Test voltage, cable                        | 1200 V                         |
| Flame resistance                           | DIN VDE 0482                   |
|  | DIN EN 50265-2-1               |
| Resistance to oil                          | Almost oil-resistant           |

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## Technical data

### Cable

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (cable, flexible installation) |

## Classifications

### eCl@ss

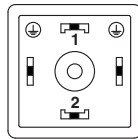
|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

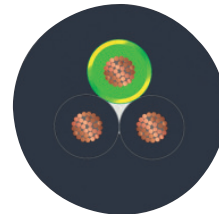
## Drawings

Schematic diagram



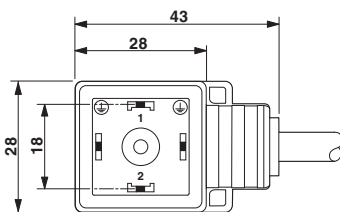
Valve connector pin assignment, type A

Cable cross section



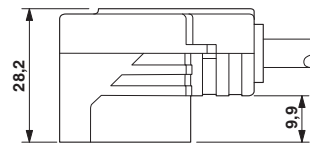
PVC black [PVC]

Dimensional drawing



Valve connector, type A

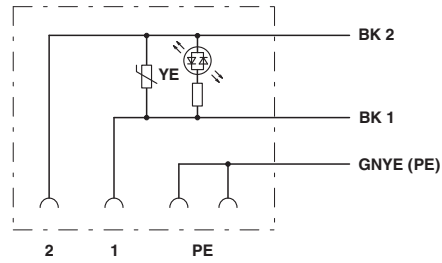
Dimensional drawing



Valve connector, type A, side view

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Circuit diagram



Contact assignment of the valve plug