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# Sensor/Actuator cable - SAC-3P- 2,0-PVC/CI-1L-Z B-L - 1404824

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Sensor/Actuator cable, 3-position, PVC, Black RAL 9005, Free cable end, on CI valve plug (9.4 mm), with 1 LED, connected with Z diode, Cable length: 2 m



## Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 0   |
| Minimum order quantity | 1   |
| GTIN                   | <br>4 046356 726542 |
| Custom tariff number   | 85444290  |
| Country of origin      | POLAND  |

## Technical data

### General data

|                                 |                               |
|---------------------------------|-------------------------------|
| Rated current at 40°C           | 4 A                           |
| Rated voltage                   | 24 V                          |
| Number of positions             | 3                             |
| Volume resistance               | ≤ 5 mΩ                        |
| Insulation resistance           | ≥ 100 MΩ                      |
| Length of cable                 | 2 m                           |
| Ambient temperature (operation) | -20 °C ... 85 °C (valve plug) |

### General characteristics

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Surge voltage category              | III                              |
| Pollution degree                    | 3                                |
| Degree of protection                | IP65/67                          |
| Torque                              | 0.6 Nm (Valve plug-in connector) |
| 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)                |
| Status display                      | 1 LED                            |

## Sensor/Actuator cable - SAC-3P- 2,0-PVC/CI-1L-Z B-L - 1404824

### Technical data

#### General characteristics

|                              |         |
|------------------------------|---------|
| Protective circuit/component | Z diode |
|------------------------------|---------|

#### Conductor data

|   |  |
|---|--|
| Cable type                                    | PVC black                                      |
| Cable type (abbreviation)                     | PVC  |
| Cable abbreviation                            | LiYY   |
| 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                                |
| Smallest bending radius, fixed installation   | 24 mm  |
| Smallest bending radius, movable installation | 48 mm  |
| Outer sheath, material                        | PVC  |
| Material conductor insulation                 | PVC  |
| Conductor material                            | Bare Cu litz wires                             |
| Insulation resistance                         | Min. 20 MΩ*km                                  |
| Conductor resistance                          | 39 Ω/km (at 20 °C)                             |
| Nominal voltage, conductor                    | 300 V  |
| Test voltage, conductor                       | 1200 V   |
| Flame resistance                              | DIN EN 50265-2-1                               |
| Resistance to oil                             | Almost oil-resistant                           |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)   |
| Ambient temperature (operation)               | -5 °C ... 80 °C (cable, flexible installation) |

### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |

# Sensor/Actuator cable - SAC-3P- 2,0-PVC/CI-1L-Z B-L - 1404824

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

## Accessories

Accessories

Assembly

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



Fillister head screw with plastic knurl, M3 x 40

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## Marking

Insert label - PABA WH/15 - 1013151



Insert label, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

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Insert label - PABA YE/15 - 1013698



Insert label, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

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Insert label - PABA RD/15 - 1013944



Insert label, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

## Sensor/Actuator cable - SAC-3P- 2,0-PVC/CI-1L-Z B-L - 1404824

### Accessories

Conductor marker carrier - PATG 2/23 - 1013850



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 23 mm

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Conductor marker carrier - PATG 3/23 - 1013863



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm

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Conductor marker carrier - PATG 4/23 - 0808011



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 23 mm

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Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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### Tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

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# Sensor/Actuator cable - SAC-3P- 2,0-PVC/CI-1L-Z B-L - 1404824

## Accessories

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

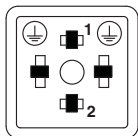
Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

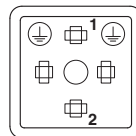
## Drawings

Schematic diagram



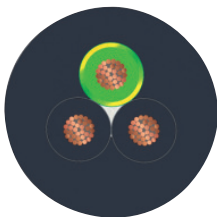
Valve connector connector pin assignment, type CI

Schematic diagram



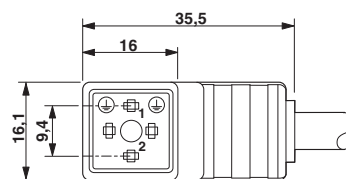
Valve connector connector pin assignment, type CI

Cable cross section



PVC black [PVC]

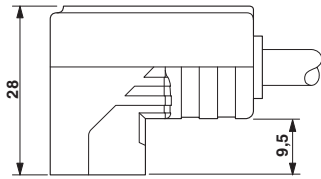
Dimensioned drawing



Valve connector, type CI

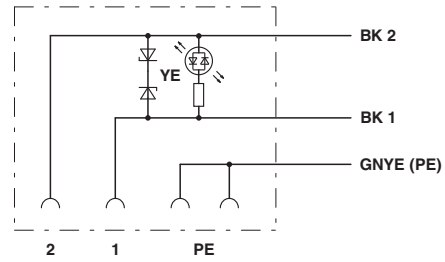
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Dimensioned drawing



Valve connector, type CI, side view

Circuit diagram



Contact assignment of the valve plug