**PHŒNIX CONTACT**

# Sensor/actuator cable - SAC-3P-10,0-PVC/CI-1L-V - 1415944

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Sensor/actuator cable, 3-position, PVC, black RAL 9005, free cable end, on Valve connector CI (9.4 mm), with 1 LED, connected with Varistor, cable length: 10 m

## Your advantages

☑ 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

**RoHS**

## Key Commercial Data

| Packing unit | 1 pc |
|---|---|
| GTIN | |
| GTIN | 4055626055190 |
| Weight per Piece (excluding packing) | 359.100 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

## Technical data

### Dimensions

| Length of cable | 10 m |
|---|---|
| Central screw valve connector | M3 x 29 |

### 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 AC |

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## Technical data

### General

|  | 24 V DC |
|---|---|
| Number of positions | 3 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Status display | 1 LED |
| Protective circuit/component | Varistor |
| Overvoltage category | III |
| Degree of pollution | 3 |

### Material

| Flammability rating according to UL 94 | V0 |
|---|---|
| Valve plug contact material | CuSn |
| Valve plug contact surface material | Sn |
| Valve plug contact insert material | PA 6.6 |
| Material housing valve plug | TPU |
| Sealing material | TPU (Seal molded) |

### Standards and Regulations

| Flammability rating according to UL 94 | V0 |
|---|---|

### Cable

| Cable type | PVC black |
|---|---|
| Cable type (abbreviation) | PVC |
| Cable abbreviation | LiYY |
| UL AWM style | 2464 |
| Conductor cross section | 3x 0.5 mm² |
| 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 |

# Sensor/actuator cable - SAC-3P-10,0-PVC/CI-1L-V - 1415944

## Technical data

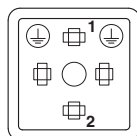### Cable

|  | DIN EN 50265-2-1 |
|---|---|
| Resistance to oil | largely oil-resistant |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
|  | -5 °C ... 80 °C (cable, flexible installation) |

### Environmental Product Compliance

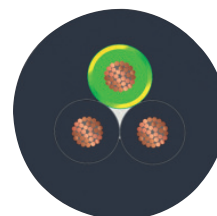| China RoHS | Environmentally Friendly Use Period = 50 |
|---|---|
|  | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings
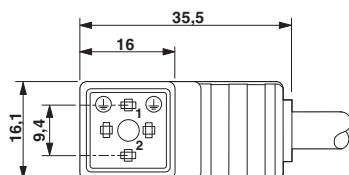
### Schematic diagram



Valve connector connector pin assignment, type CI
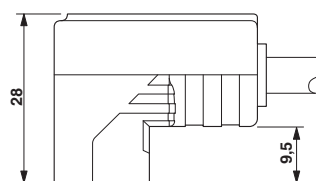
### Cable cross section



PVC black [PVC]
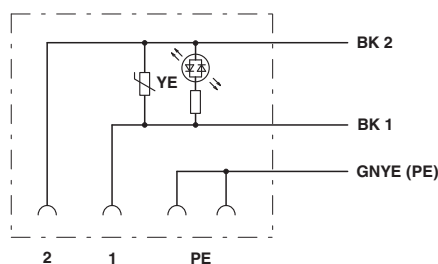
### Dimensional drawing



Valve connector, type CI

### Dimensional drawing



Valve connector, type CI, side view

### Circuit diagram



Contact assignment of the valve plug

# Sensor/actuator cable - SAC-3P-10,0-PVC/CI-1L-V - 1415944

## Classifications

### eCl@ss

| eCl@ss 5.1 | 27061800 |
|---|---|
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060312 |

### ETIM

| ETIM 5.0 | EC001855 |
|---|---|
| ETIM 6.0 | EC001855 |

### UNSPSC

| UNSPSC 13.2 | 31251501 |
|---|---|

## Approvals

### Approvals

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Approvals

CSAus

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Ex Approvals

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### Approval details

| CSAus | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
|---|---|---|---|
| Nominal voltage UN | | 24 V | |
| Nominal current IN | | 6 A | |

## Accessories

Accessories

Conductor marking

# Sensor/actuator cable - SAC-3P-10,0-PVC/CI-1L-V - 1415944

## Accessories

Insert label - PABA WH/23 - 1013779

Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 - 35 mm, lettering field size: 23 x 4 mm

Insert label - PABA YE/23 - 1013782

Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 - 35 mm, lettering field size: 23 x 4 mm

Insert label - PABA WH/15 - 1013151

Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

Insert label - PABA YE/15 - 1013698

Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

Insert label - PABA RD/15 - 1013944

Insert label, Strip, red, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

Corrugated pipe

# Sensor/actuator cable - SAC-3P-10,0-PVC/CI-1L-V - 1415944

## Accessories

Protective hose - WP-PA HF 13,0 BK - 3240681

Polyamide protective hose, inflammability class V0, UV resistant

Protective hose - WP-PA HF-HB 13,0 BK - 3240839

Polyamide protective hose, inflammability class HB, UV resistant

## Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207

Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

## Marker carrier cable

Conductor marker carrier - PATG 2/15 - 1013038

Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 2 - 4 mm, lettering field size: 15 x 4 mm

Conductor marker carrier - PATG 3/15 - 1013041

Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 4 - 7 mm, lettering field size: 15 x 4 mm

# Sensor/actuator cable - SAC-3P-10,0-PVC/CI-1L-V - 1415944

## Accessories

Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 6 - 10 mm, lettering field size: 15 x 4 mm

## Marker pen

Marker pen - B-STIFT - 1051993



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

## Mounting material

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



Fillister head screw with plastic knurl, M3 x 40

## Screwdriver tools

Screw insert - SF-BIT-PH 1-70 - 1212582



Screw bit, PH crosshead, E6.3-1/4" drive, size: PH 1 x 70 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

## Stripping tool

Stripping tool - WIREFOX SAC-1 - 1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 3.2 to 4.4 mm, any stripping length

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## 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 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

## Torque tool

Torque screwdriver - TSD-M 1,2NM - 1212224

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

Protective hose adapter - WP-CTA POM 13,0 BK - 1422884

Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel