

Sensor/actuator cable - SAC-3P- 1,5-PVC/BI-1L-V - 1415931

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Sensor/actuator cable, 3-position, PVC, black RAL 9005, free cable end, on Valve connector BI (11 mm), with 1 LED, connected with Varistor, cable length: 1.5 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 |  4 055626 054964 |
| GTIN | 4055626054964 |

Technical data

Dimensions

| | |
|-------------------------------|---------|
| Length of cable | 1.5 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 |
| | 24 V DC |
| Number of positions | 3 |
| Color handle area | black |

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Technical data

General

| | |
|------------------------------|----------|
| 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 mm ² |
| 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 | largely oil-resistant |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |

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Technical data

Cable

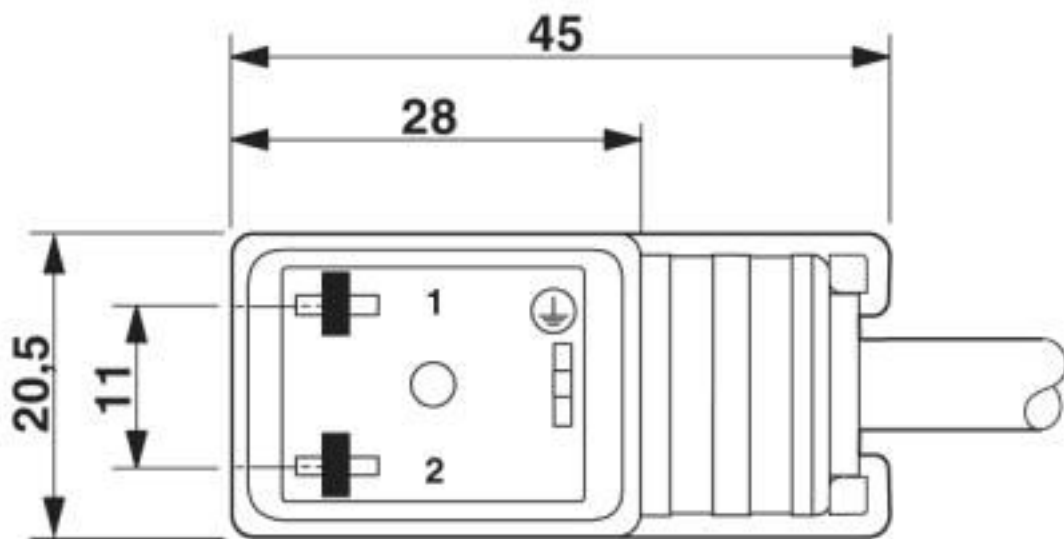
| | |
|--|--|
| | -5 °C ... 80 °C (cable, flexible installation) |
|--|--|

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

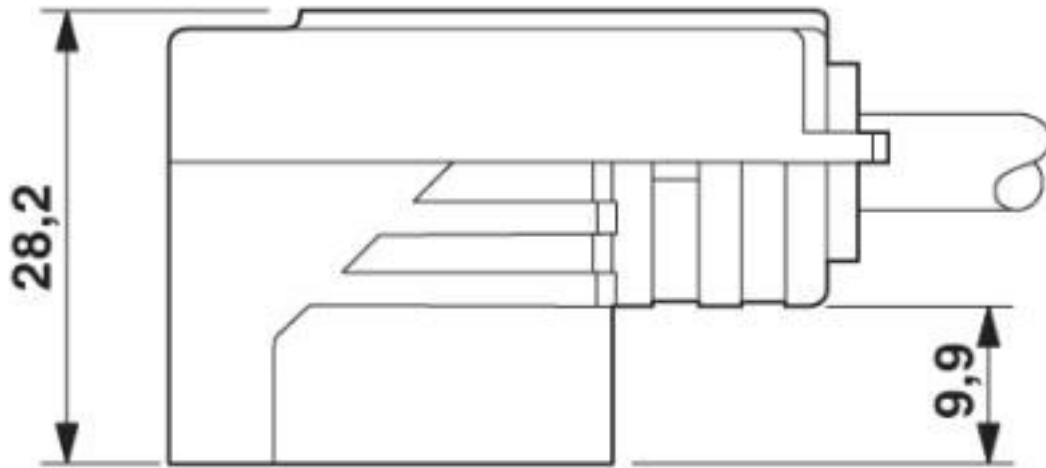
Dimensional drawing



Valve connector, type BI

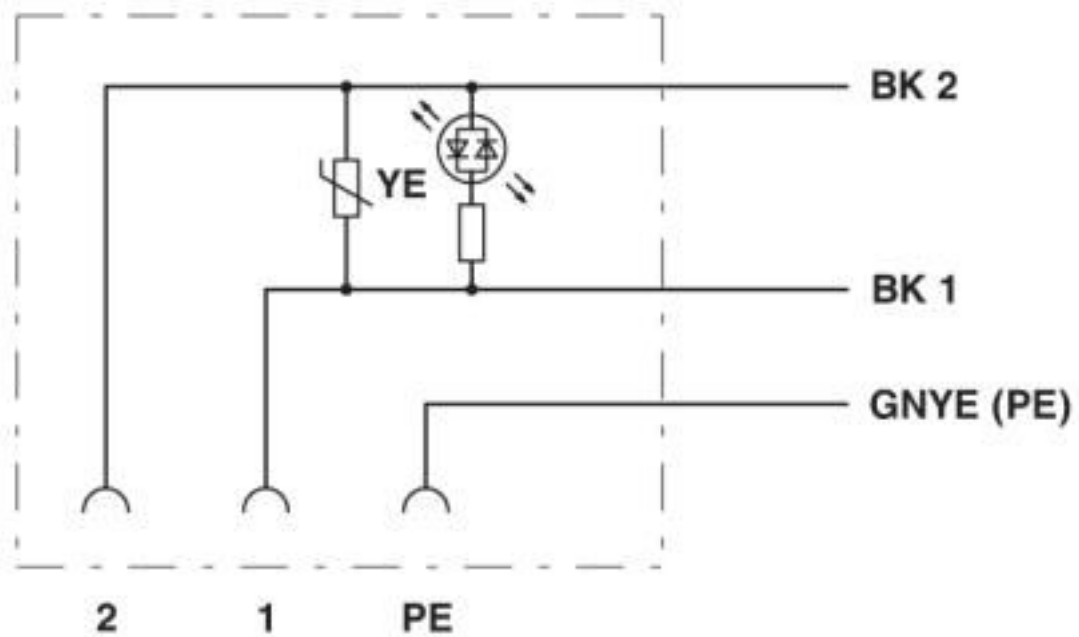
Sensor/actuator cable - SAC-3P- 1,5-PVC/BI-1L-V - 1415931

Dimensional drawing



Valve connector, type BI, side view

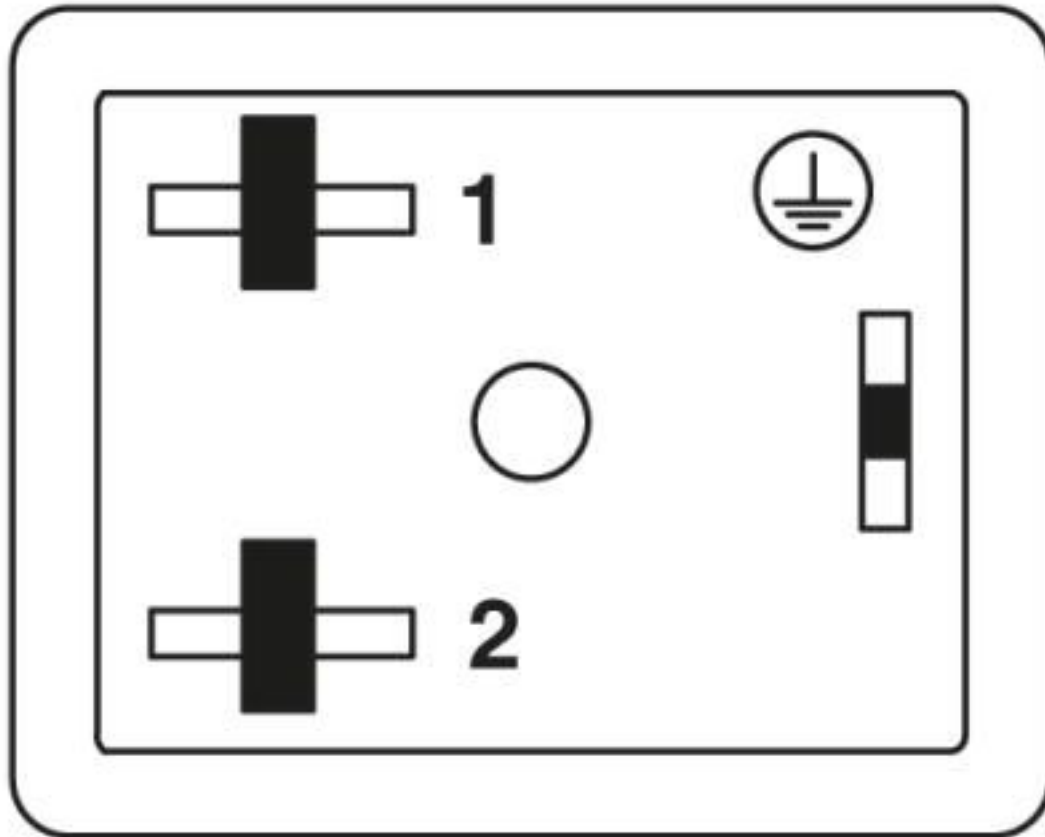
Circuit diagram



Contact assignment of the valve plug

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Schematic diagram



Valve connector pin assignment, type BI

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Cable cross section



PVC black [PVC]

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27060312 |
| eCl@ss 4.0 | 27060300 |
| eCl@ss 4.1 | 27060300 |
| eCl@ss 5.0 | 27061800 |
| 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 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |
| UNSPSC 20.0 | 31251501 |
| UNSPSC 21.0 | 31251501 |

Approvals

Approvals

Approvals

CSAus / EAC-RoHS

Ex Approvals

Approval details

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

| | | |
|----------|--|--------------------------|
| EAC-RoHS | | RU D- DE.HB35.B.00387 |
|----------|--|--------------------------|

Accessories

Accessories

Conductor marking

Sensor/actuator cable - SAC-3P- 1,5-PVC/BI-1L-V - 1415931

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, Number of individual labels: 20

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, Number of individual labels: 20

Corrugated pipe

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 pen

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Accessories

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

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

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Accessories

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

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