

## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

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Sensor/actuator cable, 3-position, PVC, black RAL 9005, free cable end, on Valve connector A, cable length: 1.5 m

### Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector without protective circuit

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 055626 054858 |
| GTIN         | 4055626054858                                                                                           |

### 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 | 6 A      |
| Rated voltage         | 230 V AC |
|                       | 230 V DC |
| Number of positions   | 3        |
| Color handle area     | black    |
| Insulation resistance | ≥ 100 MΩ |

## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

### Technical data

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Standards/regulations        | Valve connector EN 175301-803 |
| Status display               | No                            |
| Protective circuit/component | unwired                       |
| Overvoltage category         | III                           |
| Degree of pollution          | 3                             |
| Torque                       | 0.6 Nm                        |

#### 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

|                                        |                               |
|----------------------------------------|-------------------------------|
| Standards/specifications               | Valve connector EN 175301-803 |
| 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 <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               |

## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

### Technical data

#### Cable

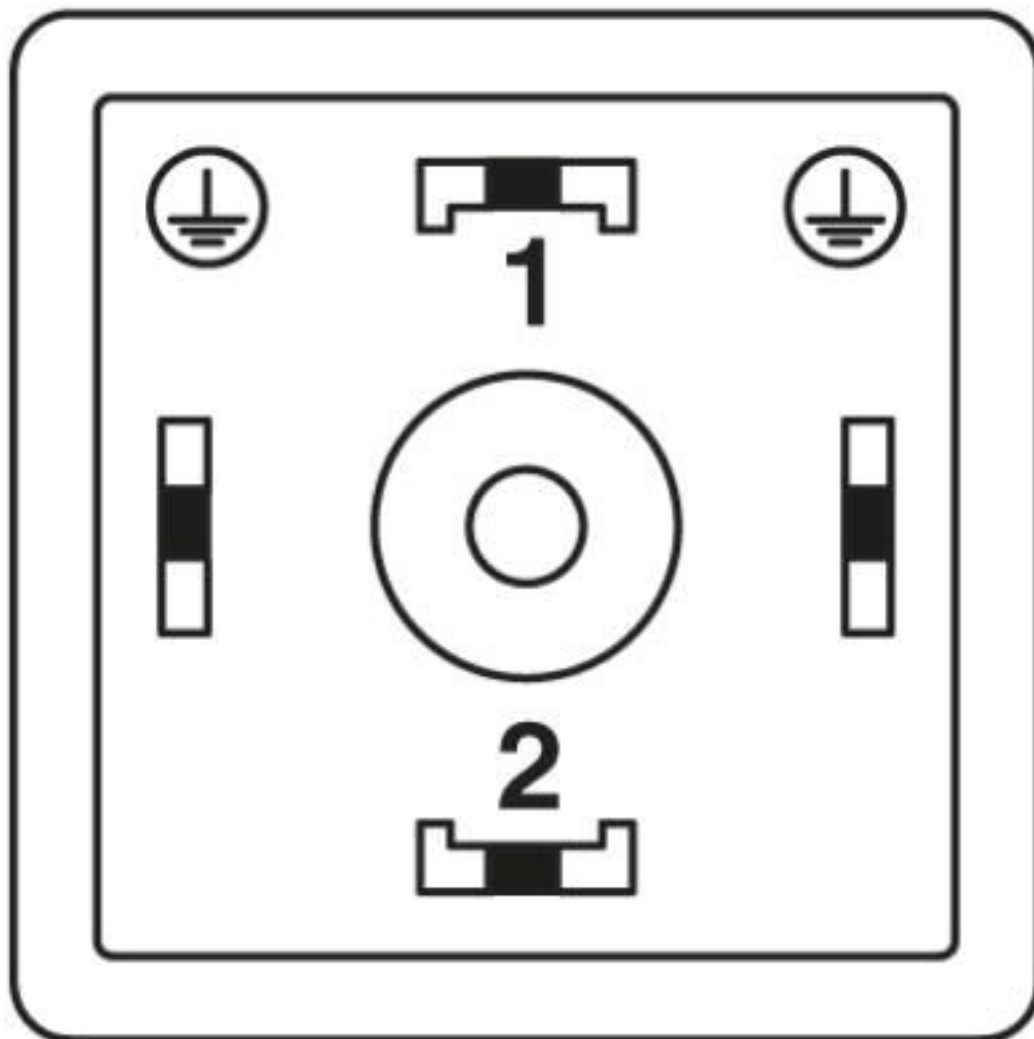
|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Resistance to oil               | largely oil-resistant                          |
| Ambient temperature (operation) | -40 °C ...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

#### Environmental Product Compliance

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

### Drawings

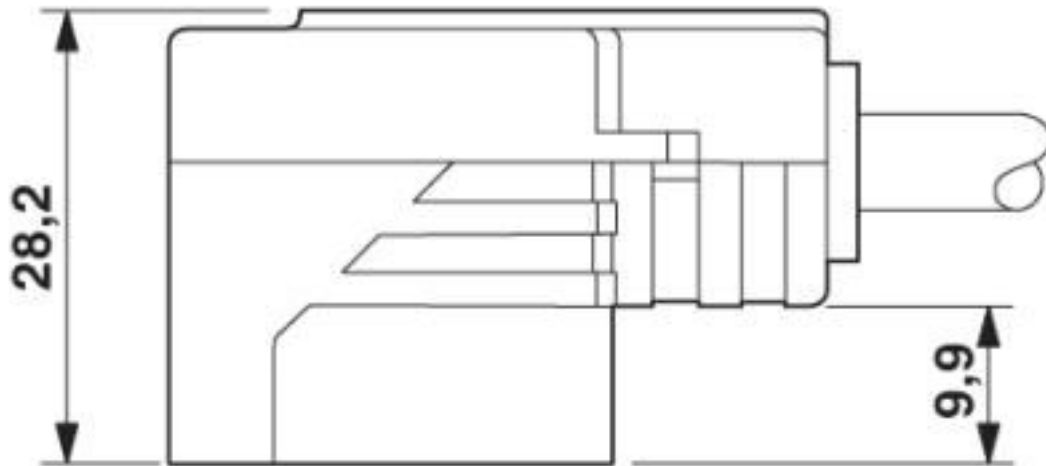
Schematic diagram



Valve connector pin assignment, type A

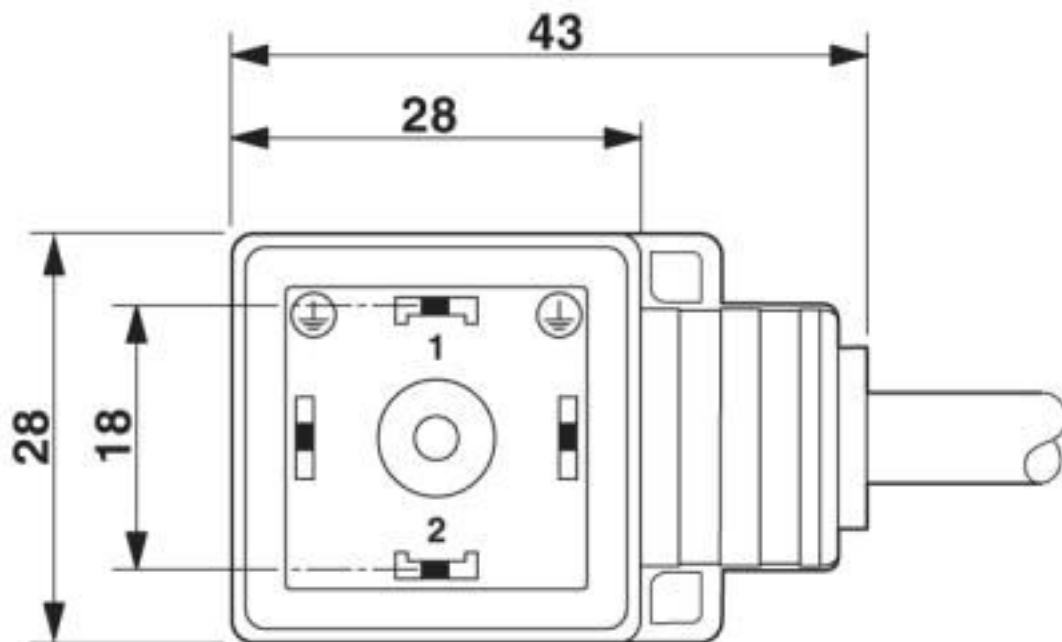
## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

Dimensional drawing



Valve connector, type A, side view

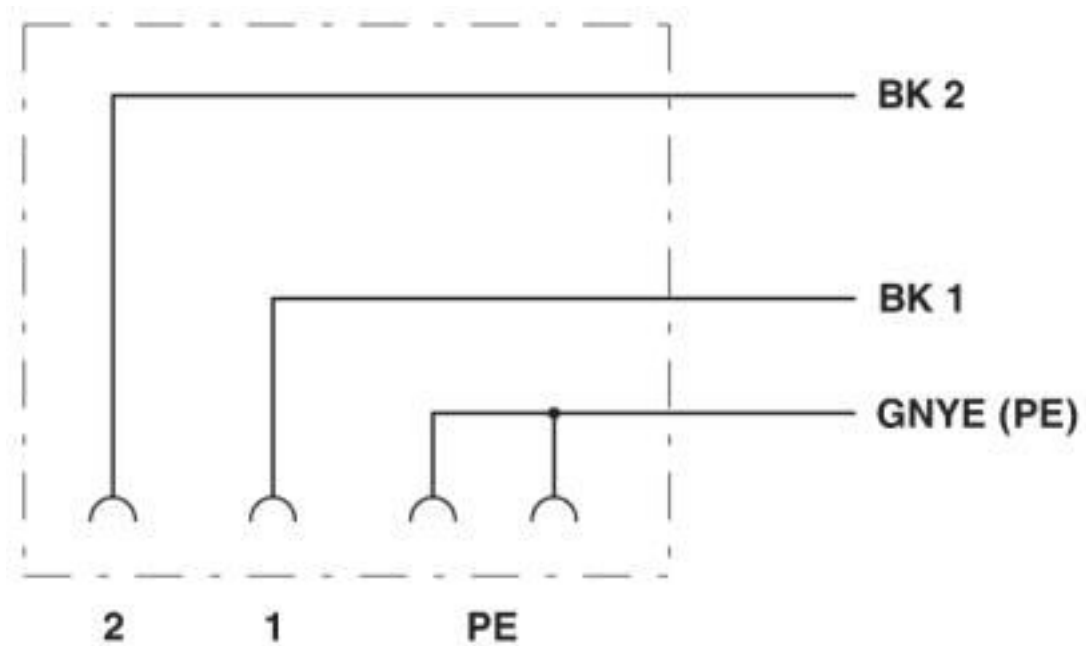
Dimensional drawing



Valve connector, type A

## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

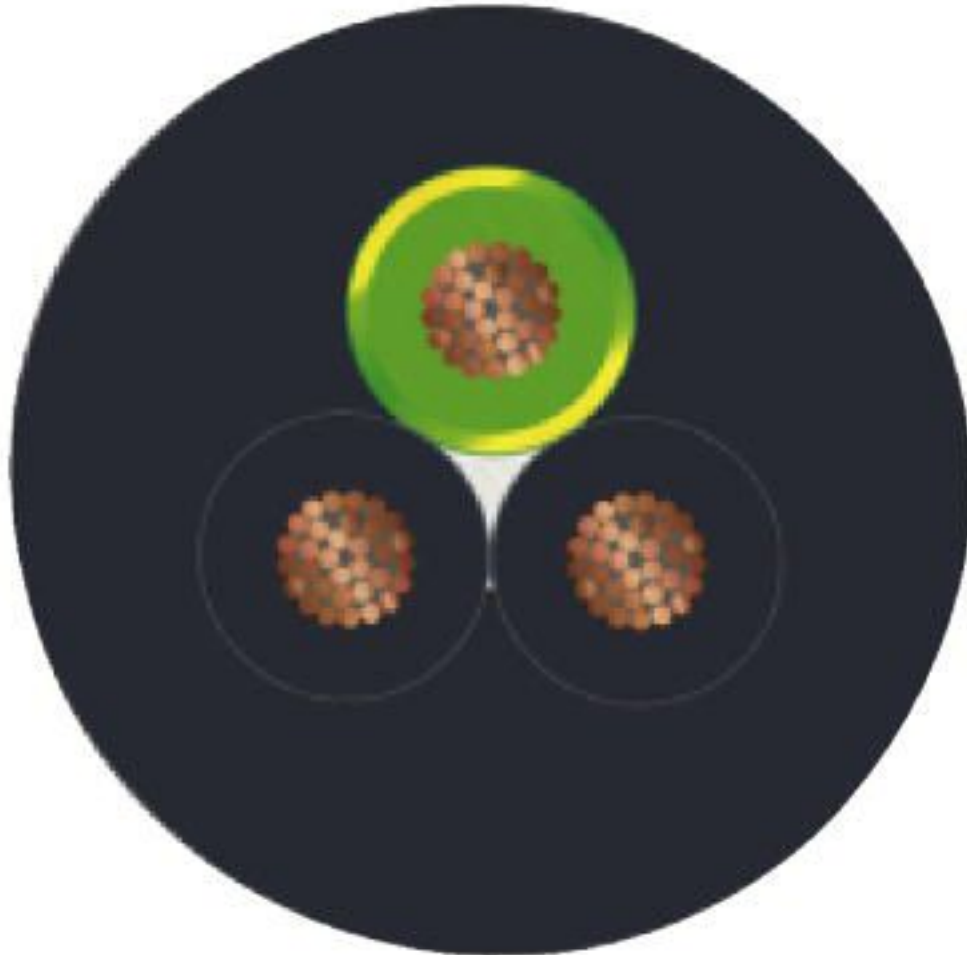
Circuit diagram



Contact assignment of the valve plug

## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

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 / EAC

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSAus              |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
| Nominal voltage UN | 230 V                                                                               |                                                                                                                                         |       |
| Nominal current IN | 6 A                                                                                 |                                                                                                                                         |       |

|          |                                                                                     |                          |
|----------|-------------------------------------------------------------------------------------|--------------------------|
| EAC-RoHS |  | RU D-<br>DE.HB35.B.00387 |
|----------|-------------------------------------------------------------------------------------|--------------------------|

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00286 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

## Accessories

### Accessories

### Conductor marking

## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

### 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

## Sensor/actuator cable - SAC-3P- 1,5-PVC/A - 1415920

### Accessories

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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### Mounting material

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



Fillister head screw with plastic knurl, M3 x 40

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### 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

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### 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 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

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### 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

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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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