

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable



1415921

<https://www.phoenixcontact.com/pc/products/1415921>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1415921             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | BF1DAA              |
| Catalog page                         | Page 239 (C-2-2019) |
| GTIN                                 | 4055626054865       |
| Weight per piece (including packing) | 141 g               |
| Weight per piece (excluding packing) | 139.2 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable



1415921

<https://www.phoenixcontact.com/pc/products/1415921>

## Technical data

### Product properties

|                      |                                            |
|----------------------|--------------------------------------------|
| Product type         | Sensor/actuator cable with valve connector |
| Application          | Standard                                   |
| Number of positions  | 3                                          |
| No. of cable outlets | 1                                          |
| Shielded             | no                                         |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Material specifications

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

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 230 V AC                   |
|                       | 230 V DC                   |
| Nominal current $I_N$ | 6 A                        |

### Valve connector characteristics

|               |         |
|---------------|---------|
| Fixing screws | M3 x 29 |
|---------------|---------|

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | No |

### Connector

#### Connection 1

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

#### Connection 2

|          |                           |
|----------|---------------------------|
| Type     | Valve connector A         |
| Material | CuSn (Contact)            |
|          | Sn (Contact surface)      |
|          | PA 6.6 (Contact carriers) |
|          | TPU (Housing)             |

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable



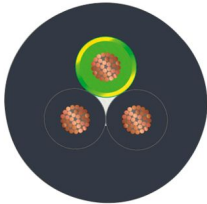
1415921

<https://www.phoenixcontact.com/pc/products/1415921>

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 3 m |
|--------------|-----|

### PVC black [PVC]

|                                             |                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------|
| Dimensional drawing                         |              |
| Cable weight                                | 38.6 kg/km                                                                                     |
| UL AWM Style                                | 2464                                                                                           |
| Number of positions                         | 3                                                                                              |
| Shielded                                    | no                                                                                             |
| Cable type                                  | PVC black [PVC]                                                                                |
| Conductor structure signal line             | 16x 0.20 mm                                                                                    |
| AWG signal line                             | 20                                                                                             |
| Conductor cross section                     | 3x 0.5 mm <sup>2</sup>                                                                         |
| Wire diameter incl. insulation              | 1.5 mm ±0.05 mm                                                                                |
| External cable diameter                     | 4.80 mm ±0.2 mm                                                                                |
| Outer sheath, material                      | PVC                                                                                            |
| External sheath, color                      | black RAL 9005                                                                                 |
| Conductor material                          | Bare Cu litz wires                                                                             |
| Material wire insulation                    | PVC                                                                                            |
| Single wire, color                          | black 1, black 2, green/yellow                                                                 |
| Overall twist                               | 3 wires, twisted                                                                               |
| Max. conductor resistance                   | 39 Ω/km (at 20 °C)                                                                             |
| Insulation resistance                       | ≥ 20 MΩ*km                                                                                     |
| Nominal voltage, cable                      | 300 V                                                                                          |
| Test voltage                                | 1200 V                                                                                         |
| Minimum bending radius, fixed installation  | 5 x D                                                                                          |
| Smallest bending radius, fixed installation | 24 mm                                                                                          |
| Flame resistance                            | DIN VDE 0482<br>DIN EN 50265-2-1                                                               |
| Resistance to oil                           | in accordance with DIN EN 60811-2-1                                                            |
| Ambient temperature (operation)             | -40 °C ... 80 °C (cable, fixed installation)<br>-5 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|----------------------|------|

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable



1415921

<https://www.phoenixcontact.com/pc/products/1415921>

|                                 |                               |
|---------------------------------|-------------------------------|
|                                 | IP67                          |
| Ambient temperature (operation) | -20 °C ... 85 °C (valve plug) |

## Standards and regulations

|                          |                 |
|--------------------------|-----------------|
| Valve connector          |                 |
| Standard designation     | Valve connector |
| Standards/specifications | EN 175301-803   |

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable

1415921

<https://www.phoenixcontact.com/pc/products/1415921>



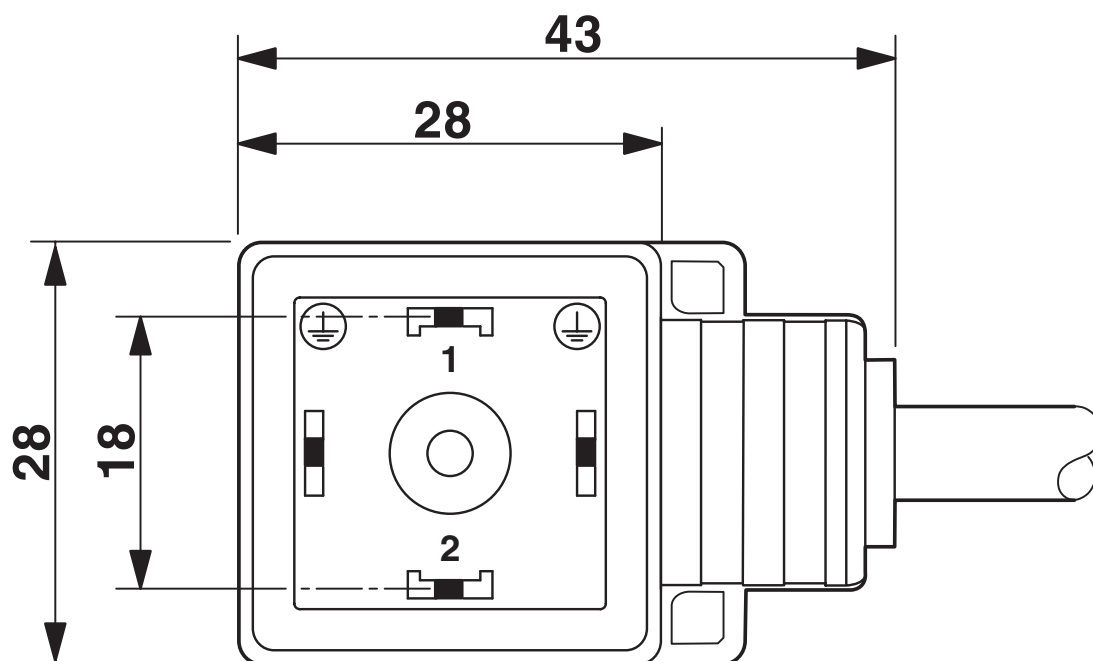
## Drawings

Dimensional drawing



Valve connector, type A, side view

Dimensional drawing

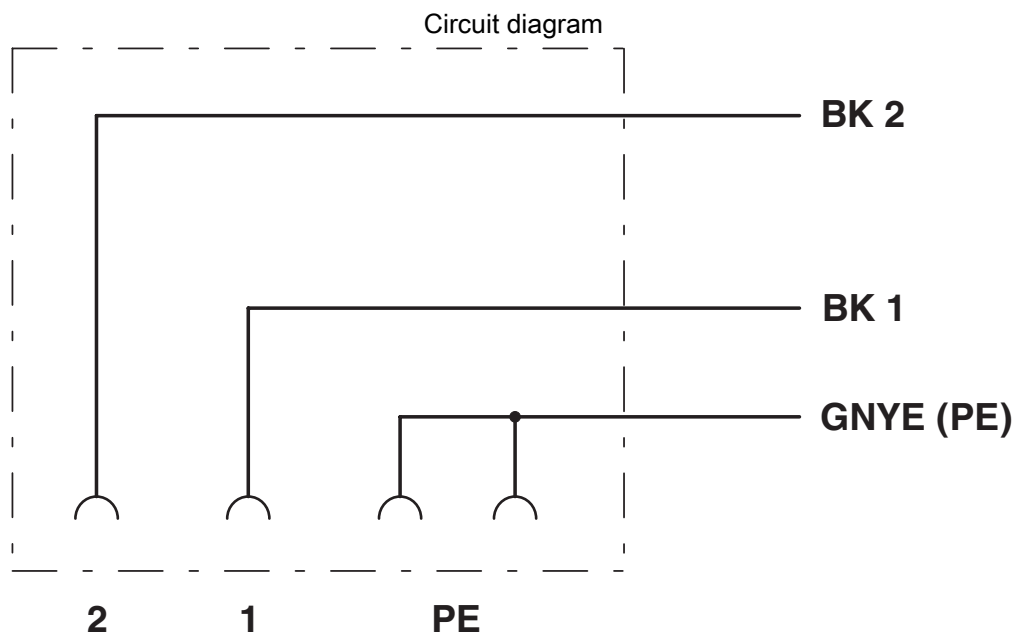


Valve connector, type A

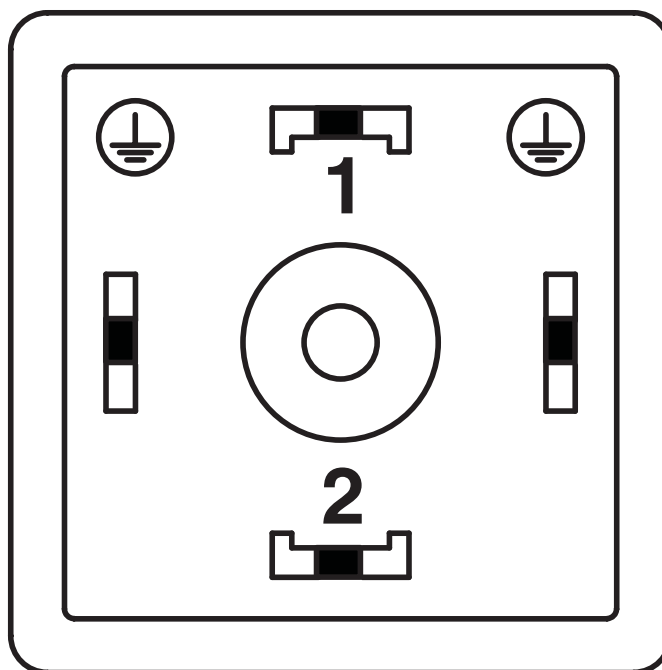
# SAC-3P- 3,0-PVC/A - Sensor/actuator cable

1415921

<https://www.phoenixcontact.com/pc/products/1415921>



Schematic diagram



Valve connector pin assignment, type A

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable



1415921

<https://www.phoenixcontact.com/pc/products/1415921>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1415921>



**EAC-RoHS**  
Approval ID: RU D-DE.HB35.B.00387

|                                                                                   |                                    |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>CSAus</b><br>Approval ID: 13631 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$              | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                   | 230 V                              | 6 A                   | -                 | -                           |

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable



1415921

<https://www.phoenixcontact.com/pc/products/1415921>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060312 |
| ECLASS-12.0 | 27060312 |
| ECLASS-13.0 | 27060312 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|

# SAC-3P- 3,0-PVC/A - Sensor/actuator cable



1415921  
<https://www.phoenixcontact.com/pc/products/1415921>

## Environmental product compliance

|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
| EU RoHS                                 |                                                             |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                                          |
| China RoHS                              |                                                             |
| Environment friendly use period (EFUP)  | EFUP-E                                                      |
|                                         | No hazardous substances above the limits                    |
| EU REACH SVHC                           |                                                             |
| REACH candidate substance (CAS No.)     | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP                                    | 7fb382f5-71f6-4bc2-a73e-fbb41fb071d0                        |

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)