

SAC-3P- 3,0-PVC/BI-1L-Z - Sensor/actuator cable



1400609

<https://www.phoenixcontact.com/us/products/1400609>

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 BI (11 mm), with 1 LED, Wiring: Z diode, cable length: 3 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1400609 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF07 |
| Product key | AF1DDA |
| GTIN | 4046356512138 |
| Weight per piece (including packing) | 130.3 g |
| Weight per piece (excluding packing) | 127.4 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

1400609

<https://www.phoenixcontact.com/us/products/1400609>

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 | 24 V AC |
| | 24 V DC |
| Nominal current I_N | 4 A |

Valve connector characteristics

| | |
|------------------|---|
| Fixing screws | M3 x 29 |
| Pulse power | 40 W (at 100 μ s square-wave pulse) |
| Terminal voltage | 70 V (at 2 mA constant current) |
| Reverse voltage | 50 V |

Signaling

| | |
|------------------------|-------|
| Status display | 1 LED |
| Status display present | yes |

Connector

Connection 1

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

Connection 2

| | |
|---------------------|----------------------------|
| Type | Valve connector BI (11 mm) |
| Number of positions | 3 |
| | CuSn (Contact) |

SAC-3P- 3,0-PVC/BI-1L-Z - Sensor/actuator cable



1400609

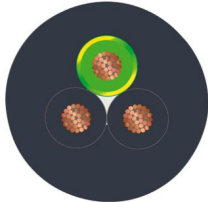
<https://www.phoenixcontact.com/us/products/1400609>

| | |
|--------------------|--------------------------|
| Material | Sn (Contact surface) |
| | PA 6.6 (Contact carrier) |
| | TPU (Housing) |
| Protective circuit | Z diode |

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 ² |
| 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 |
| | 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) |
| | -5 °C ... 80 °C (Cable, flexible installation) |

SAC-3P- 3,0-PVC/BI-1L-Z - Sensor/actuator cable



1400609

<https://www.phoenixcontact.com/us/products/1400609>

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------------------------|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (Valve connector) | -20 °C ... 85 °C (Valve connector) |

Standards and regulations

Valve connector

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

SAC-3P- 3,0-PVC/BI-1L-Z - Sensor/actuator cable

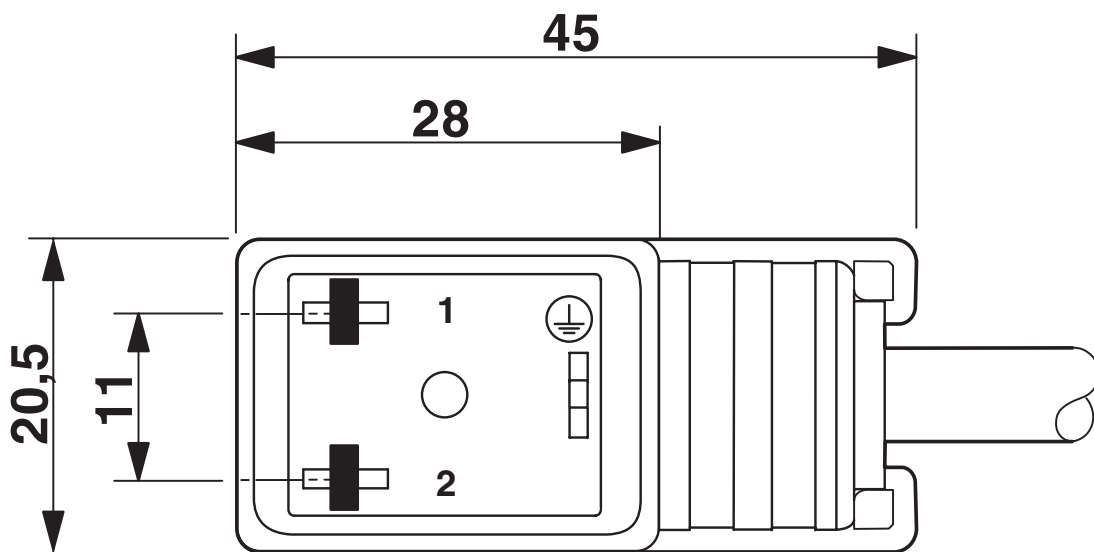


1400609

<https://www.phoenixcontact.com/us/products/1400609>

Drawings

Dimensional drawing



Valve connector, type BI

Dimensional drawing



Valve connector, type BI, side view

1400609

<https://www.phoenixcontact.com/us/products/1400609>

Schematic diagram



Valve connector pin assignment, type BI

Circuit diagram



Contact assignment of the valve plug

SAC-3P- 3,0-PVC/BI-1L-Z - Sensor/actuator cable




1400609

<https://www.phoenixcontact.com/us/products/1400609>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1400609>

|  CSAus Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 24 V | 6 A | - | - |

SAC-3P- 3,0-PVC/BI-1L-Z - Sensor/actuator cable



1400609

<https://www.phoenixcontact.com/us/products/1400609>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060312 |
| ECLASS-15.0 | 27060312 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

UNSPSC

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

SAC-3P- 3,0-PVC/BI-1L-Z - Sensor/actuator cable



1400609

<https://www.phoenixcontact.com/us/products/1400609>

Environmental product compliance

EU RoHS

| | |
|---|--------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.976 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com