

# SAC-3P-10,0-PUR/A-1L-Z - Sensor/actuator cable



1435014

<https://www.phoenixcontact.com/au/products/1435014>

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 10 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Our standard: robust halogen-free PUR cable

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1435014             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | AF1DAA              |
| Product key                          | AF1DAA              |
| Catalog page                         | Page 228 (C-2-2019) |
| GTIN                                 | 4046356413398       |
| Weight per piece (including packing) | 337.3 g             |
| Weight per piece (excluding packing) | 296 g               |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |

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## 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   |

### Connection data

#### Conductor connection

|                   |                          |
|-------------------|--------------------------|
| Tightening torque | 0.6 Nm (Valve connector) |
|-------------------|--------------------------|

#### Pin assignment

|                                                           |                             |
|-----------------------------------------------------------|-----------------------------|
| Contact   Color (signal designation)   Contact (optional) | 1 (Valve connector)   BK1   |
|                                                           | 2 (Valve connector)   BK2   |
|                                                           | PE (Valve connector)   GNYE |

### 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 | ≥ 100 MΩ |
| 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 μs 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   |

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## Connector

### Connection 1

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

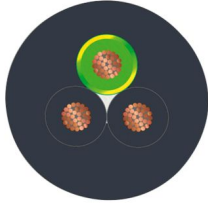
### Connection 2

|                     |                          |
|---------------------|--------------------------|
| Type                | Valve connector A        |
| Number of positions | 3                        |
| Material            | CuSn (Contact)           |
|                     | Sn (Contact surface)     |
|                     | PA 6.6 (Contact carrier) |
|                     | TPU (Housing)            |
| Protective circuit  | Z diode                  |

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

### PUR halogen-free black [PUR]

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Cable weight                    | 30 kg/km                                                                             |
| UL AWM Style                    | 20549                                                                                |
| Number of positions             | 3                                                                                    |
| Shielded                        | no                                                                                   |
| Cable type                      | PUR halogen-free black [PUR]                                                         |
| Conductor structure signal line | 28x 0.15 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 (Signal line)                                                        |
| External cable diameter         | 4.50 mm ±0.2 mm                                                                      |
| Outer sheath, material          | PUR                                                                                  |
| External sheath, color          | black-gray RAL 7021                                                                  |
| Conductor material              | Bare Cu litz wires                                                                   |
| Material wire insulation        | PP                                                                                   |
| 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           | min. 20 MΩ*km                                                                        |

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|                                               |                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Nominal voltage, cable                        | ≤ 300 V                                                                                                                                 |
| Test voltage                                  | ≥ 1200 V                                                                                                                                |
| Minimum bending radius, fixed installation    | 5 x D                                                                                                                                   |
| Minimum bending radius, flexible installation | 10 x D                                                                                                                                  |
| Smallest bending radius, fixed installation   | 22.5 mm                                                                                                                                 |
| Smallest bending radius, movable installation | 45 mm                                                                                                                                   |
| Dynamic load capacity (bending)               | Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s <sup>2</sup> |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                                                                                |
| Flame resistance                              | according to DIN VDE 0482<br>According to DIN EN 50265-2-1                                                                              |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                                                                     |
| Other resistance                              | largely oil-resistant<br>partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)                                                   |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-20 °C ... 80 °C (Cable, flexible installation)                                         |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

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

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## Drawings

Dimensional drawing



Valve connector, type A, side view

Dimensional drawing



Valve connector, type A, side view

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Schematic diagram



Valve connector pin assignment, type A

Circuit diagram



Contact assignment of the valve plug

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## Approvals

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|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                    | 24 V                  | 4 A                   | -                 | -                           |

|  <b>EAC-RoHS</b><br>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 $\text{mm}^2$ |
|                                                                                                                      | 24 V                  | 4 A                   | -                 | -                           |

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## Classifications

### ECLASS

ECLASS-13.0

27060312

### ETIM

ETIM 9.0

EC001855

### UNSPSC

UNSPSC 21.0

31251500

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## 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.) | Diboron trioxide(CAS: 1303-86-2)           |
|                                     | Lead monoxide (lead oxide)(CAS: 1317-36-8) |
| SCIP                                | dea79f1c-fa4e-4184-9000-f7c457e0ed79       |

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 2.774 kg CO2e |
|---------|---------------|

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PHOENIX CONTACT PTY Ltd  
Unit 7, 2-8 South Street  
Rydalmere NSW 2116  
1300 786 411  
[customerservice@phoenixcontact.com.au](mailto:customerservice@phoenixcontact.com.au)