

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



1407290

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Sensor/actuator cable, 3-position, PUR halogen-free, black RAL 9005, free cable end, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 10 m, for outdoor applications, with stainless steel central screw and additional silicone seal (red)

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Stainless steel type 1.4404 used to provide corrosion protection for all exposed metal parts
- Robust throughout: resistant to oil, UV, and ozone, withstands temperatures from -20 °C ... +85 °C
- Convenient: increased machine availability thanks to quick and easy diagnostics

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1407290             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF07                |
| Product key                          | BF1DAA              |
| Catalog page                         | Page 180 (NTK-2014) |
| GTIN                                 | 4046356774086       |
| Weight per piece (including packing) | 461.9 g             |
| Weight per piece (excluding packing) | 461.9 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          | External areas                             |
| 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     |
|                                        | Silicon |
| 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 |
|---------------|---------|

### Signaling

|                        |       |
|------------------------|-------|
| Status display         | 1 LED |
| Status display present | Yes   |

### 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 carriers) |

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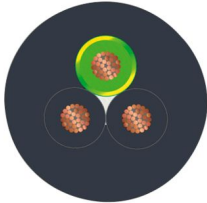
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|  |               |
|--|---------------|
|  | TPU (Housing) |
|--|---------------|

## Cable/line

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

### PUR halogen-free black [PUO]

|                                               |                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------|
| Dimensional drawing                           |       |
| Number of positions                           | 3                                                                                       |
| Shielded                                      | no                                                                                      |
| Cable type                                    | PUR halogen-free black [PUO]                                                            |
| Conductor structure signal line               | 16x 0.20 mm                                                                             |
| AWG signal line                               | 20                                                                                      |
| Conductor cross section                       | 3x 0.5 mm²                                                                              |
| Wire diameter incl. insulation                | 2 mm ±0.05 mm                                                                           |
| External cable diameter                       | 5.90 mm ±0.1 mm                                                                         |
| Outer sheath, material                        | PUR                                                                                     |
| External sheath, color                        | black RAL 9005                                                                          |
| Conductor material                            | Tin-plated Cu litz wires                                                                |
| Material wire insulation                      | PP                                                                                      |
| Single wire, color                            | black 1, black 2, green/yellow                                                          |
| Overall twist                                 | 3 wires, twisted                                                                        |
| Max. conductor resistance                     | ≤ 40.1 Ω/km                                                                             |
| Insulation resistance                         | 70 GΩ*km                                                                                |
| Nominal voltage, cable                        | 300 V                                                                                   |
| Test voltage Core/Core                        | 3000 V (Spark test)                                                                     |
| Minimum bending radius, fixed installation    | 10 x D                                                                                  |
| Minimum bending radius, flexible installation | 15 x D                                                                                  |
| Smallest bending radius, fixed installation   | 59 mm                                                                                   |
| Smallest bending radius, movable installation | 89 mm                                                                                   |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815<br>in accordance with EN 50267-2-1             |
| Resistance to oil                             | According to DIN EN 50306<br>According to DIN EN 60811-2-1, 138 h at 100°C              |
| Other resistance                              | UV resistant<br>hydrolysis and microbe resistant<br>Good resistance to aggressive media |
| Ambient temperature (operation)               | -40 °C ... 105 °C (cable, fixed installation)                                           |

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|  |                                                  |
|--|--------------------------------------------------|
|  | -15 °C ... 105 °C (Cable, flexible installation) |
|--|--------------------------------------------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Degree of protection            | IP65                              |
|                                 | IP66K (Observe tightening torque) |
|                                 | IP67                              |
|                                 | IP68                              |
| Ambient temperature (operation) | -40 °C ... 85 °C (valve plug)     |

## Standards and regulations

### Valve connector

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

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