

Sensor/actuator cable - SAC-3P- 3,0-PUR/BI-1L-S F - 1669958

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Sensor/actuator cable, 3-position, PUR/PVC, gray RAL 7001, free cable end, on Valve connector BI (11 mm), with 1 LED, connected with Z diode, cable length: 3 m

Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector with Zener diode as protective circuit
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ Compact: flat design for applications where space is at a premium



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 5 STK |
| GTIN |  4 017918 134853 |
| GTIN | 4017918134853 |
| Sales Key | 02 |

Technical data

Dimensions

| | |
|--|---------|
| Length of cable | 3 m |
| Stripping length of the free conductor end | 50 mm |
| Central screw valve connector | M3 x 29 |

Ambient conditions

| | |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -20 °C ... 80 °C (valve plug) |
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

General

| | |
|-----------------------|-----|
| Rated current at 40°C | 3 A |
|-----------------------|-----|

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Technical data

General

| | |
|------------------------------|-------------|
| Rated voltage | 24 V AC |
| | 24 V DC |
| Number of positions | 3 |
| Color handle area | transparent |
| Insulation resistance | ≥ 100 MΩ |
| Status display | 1 LED |
| Protective circuit/component | Z diode |
| Overvoltage category | II |
| Degree of pollution | 3 |

Material

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Valve plug contact material | CuSn |
| Valve plug contact surface material | Ag |
| Valve plug contact insert material | PBT |
| Material housing valve plug | PBT |
| Sealing material | TPU (Flat gasket valve plug) |

Cable

| | |
|---|--------------------------------------|
| Cable type | PUR/PVC gray |
| Cable type (abbreviation) | 100 |
| Cable abbreviation | LiYY11Y-JZ |
| Conductor cross section | 0.75 mm ² |
| AWG signal line | 18 |
| Conductor structure signal line | 24x 0.20 mm |
| Core diameter including insulation | approx. 1.8 mm |
| Thickness, insulation | approx. 0.34 mm (Core insulation) |
| | approx. 0.35 mm (Outer cable sheath) |
| | approx. 0.3 mm (Inner sheath) |
| Wire colors | black 1, black 2, green/yellow |
| Overall twist | 3 concentrically twisted wires |
| Length of twist, overall twist | 83 mm |
| External sheath, color | gray RAL 7001 |
| External cable diameter | 5.20 mm |
| Smallest bending radius, movable installation | 62 mm |
| Outer sheath, material | PUR |
| Material, inner sheath | PVC |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 1 MΩ*km |
| Nominal voltage, cable | 240 V |
| Test voltage, cable | 2000 V |

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Technical data

Cable

| | |
|---------------------------------|--|
| Ambient temperature (operation) | -30 °C ... 80 °C (cable, fixed installation) |
| | -5 °C ... 70 °C (cable, flexible installation) |

Standards and Regulations

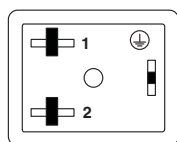
| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

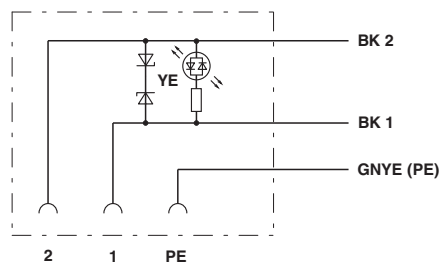
Drawings

Schematic diagram



Valve connector pin assignment, type BI

Circuit diagram



Contact assignment of the valve plug

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

| | | |
|-----|--|---------------|
| EAC | | EAC-Zulassung |
|-----|--|---------------|

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