

SAC-3P-MS/ 3,0-116/A-1L-Z SCO - Sensor/actuator cable



1453436

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Sensor/actuator cable, 3-position, PUR/PVC, black RAL 9005, Plug straight M12 SPEEDCON, coding: A, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 3 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1453436 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | AF1DJA |
| GTIN | 4046356552967 |
| Weight per piece (including packing) | 189.2 g |
| Weight per piece (excluding packing) | 189.2 g |
| Country of origin | PL |

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Technical data

Product properties

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

Insulation characteristics

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

Material specifications

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

Electrical properties

| | |
|-----------------------|---------|
| Nominal voltage U_N | 24 V AC |
| | 24 V DC |
| Nominal current I_N | 4 A |

Signaling

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

Connector

Connection 1

| | |
|---------------------|----------------------------|
| Type | Plug straight M12 SPEEDCON |
| Number of positions | 3 |
| Locking type | SPEEDCON |
| Coding type | A |

Connection 2

| | |
|--------------------|-------------------|
| Type | Valve connector A |
| Protective circuit | Z diode |

Cable/line


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

PUR/PVC, 0.75 mm², black [116]

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| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 53.4 kg/km |
| UL AWM Style | 20549 |
| Number of positions | 3 |
| Shielded | no |
| Cable type | PUR/PVC, 0.75 mm ² , black [116] |
| Conductor structure signal line | 24x 0.20 mm |
| AWG signal line | 18 |
| Conductor cross-section | 3x 0.75 mm ² |
| Wire diameter incl. insulation | 1.7 mm ±0.05 mm |
| External cable diameter | 5.80 mm ±0.2 mm |
| Outer sheath, material | PUR |
| 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 | 26 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 |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 29 mm |
| Smallest bending radius, movable installation | 58 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 1000000, Traversing path: 10 m, Traversing rate: 2 m/s, Acceleration: 2.5 m/s ² |
| Flame resistance | DIN VDE 0482 DIN EN 50265-2-1 in acc. with UL FT-2 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | Low adhesion |
| Special properties | flexible |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

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Ambient conditions

| | |
|---------------------------------|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| | -20 °C ... 85 °C (Valve connector) |
| | -40 °C ... 80 °C (cable, fixed installation) |
| | -15 °C ... 80 °C (Cable, flexible installation) |

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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing

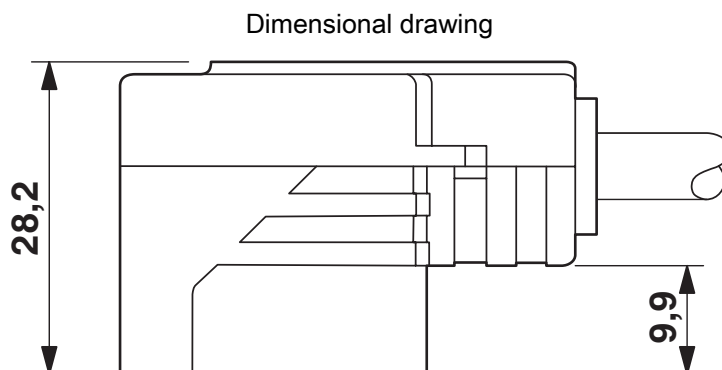


Valve connector, type A

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Valve connector, type A, side view

Schematic diagram



Pin assignment M12 plug, 3-pos., valve connector

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Schematic diagram



Valve connector pin assignment, type A

Circuit diagram



Contact assignment of M12 plug and valve connector

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Classifications

ECLASS

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

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