

Sensor/actuator cable - SAC-4P-MR/ 2,1-28X/M12FR OD - 1410821

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Sensor/actuator cable, 4-position, PE-X halogen-free, black-gray RAL 7021, Plug angled M12, A-coded, on Socket angled M12, A-coded, cable length: 2.1 m, for outdoor applications, with high-grade steel knurl

RoHS

Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN |  4 046356 932974 |
| GTIN | 4046356932974 |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 2.1 m |
|-----------------|-------|

Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -40 °C ... 105 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |
| | IP69K |

General

| | |
|-----------------------|-------------------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 250 V AC |
| | 250 V DC |
| Number of positions | 4 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |

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Technical data

General

| | |
|-----------------------------|------------------------|
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |

Material

| | |
|--|-----------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PP |
| Material of grip body | PP |
| Material, knurls | Stainless steel |
| Sealing material | FPM |

Pin assignment

| | |
|---|----------------------------|
| Contact Color (signal designation) Contact (optional) | 1 (Plug) BN 1 (Socket) |
| | 2 (Plug) WH 2 (Socket) |
| | 4 (Plug) BK 4 (Socket) |
| | 3 (Plug) BU 3 (Socket) |

Standards and Regulations

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|---|--------------------------------------|
| Cable type | PE-X black |
| Cable type (abbreviation) | 28X |
| Cable abbreviation | Li2X2X |
| Conductor cross section | 4x 0.5 mm ² (Signal line) |
| AWG signal line | 20 |
| Conductor structure signal line | 28x 0.15 mm |
| Core diameter including insulation | 1.6 mm ±0.05 mm (Signal line) |
| Thickness, insulation | approx. 0.3 mm (Core insulation) |
| | approx. 0.6 mm (Outer cable sheath) |
| Wire colors | brown, white, blue, black |
| Overall twist | 4 wires, twisted |
| Length of twist, overall twist | 61.6 mm |
| External sheath, color | black-gray RAL 7021 |
| External cable diameter D | 5.2 mm ±0.2 mm |
| Smallest bending radius, fixed installation | 26 mm |
| Smallest bending radius, movable installation | 52 mm |
| Number of bending cycles | 2000000 |
| Bending radius | 52 mm |

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Technical data

Cable

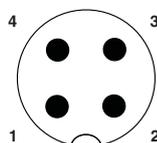
| | |
|---------------------------------|--|
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Cable weight | 44 kg/km |
| Outer sheath, material | PE-X |
| Material conductor insulation | PE-X |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 100 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 39 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage, cable | ≥ 3000 V AC |
| Special properties | Irradiated |
| Flame resistance | according to DIN 60332-1-2 |
| | according to DIN EN 50266-2-5 |
| | according to IEC 60332-3-25 (bunched fire test) |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | UV resistant according to DIN VDE 0276-605 |
| Concentration of fumes | according to DIN EN 61034 |
| Fume corrosiveness | according to IEC 60754 |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |
| | -15 °C ... 105 °C (cable, flexible installation) |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

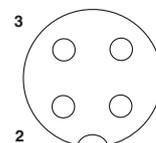
Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

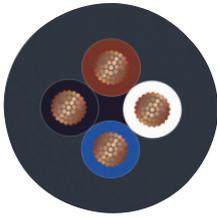
Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

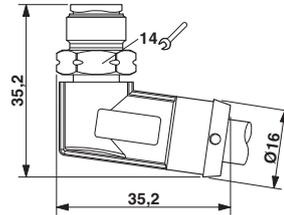
Sensor/actuator cable - SAC-4P-MR/ 2,1-28X/M12FR OD - 1410821

Cable cross section



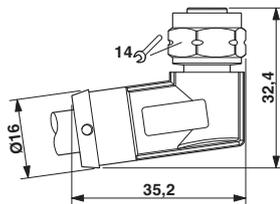
PE-X black [28X]

Dimensional drawing



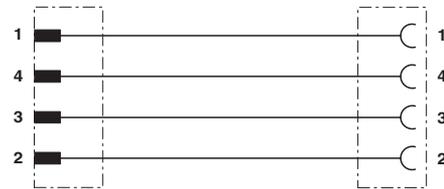
M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

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