

## Sensor/Actuator cable - SAC-5P-MS/ 0,75-186/FS SCO - 1577477

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Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 0.75 m



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| Minimum order quantity               | 25 STK                                                                                                  |
| GTIN                                 | <br>4 046356 456791 |
| GTIN                                 | 4046356456791                                                                                           |
| Weight per Piece (excluding packing) | 222.220 g                                                                                               |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### Dimensions

|                 |        |
|-----------------|--------|
| Length of cable | 0.75 m |
|-----------------|--------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 4 A  |
| Rated voltage         | 60 V |
| Number of positions   | 5    |

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## Technical data

### General

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Coding                | A - standard               |
| Status display        | No                         |
| Overvoltage category  | II                         |
| Degree of pollution   | 3                          |

### Material

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | HB                                          |
| Contact material                       | CuSn                                        |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Material, knurls                       | Zinc die-cast, nickel-plated                |
| Sealing material                       | NBR                                         |

### Standards and Regulations

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

### Cable

|                                               |                                      |
|-----------------------------------------------|--------------------------------------|
| Cable type                                    | PUR POWER 0.75 mm <sup>2</sup> black |
| Cable type (abbreviation)                     | 186                                  |
| Cable abbreviation                            | LiY11Y                               |
| Conductor cross section                       | 5x 0.75 mm <sup>2</sup> (power line) |
| AWG signal line                               | 18                                   |
| Conductor structure signal line               | 42x 0.15 mm                          |
| Core diameter including insulation            | 1.7 mm $\pm 0.05$ mm                 |
| Thickness, insulation                         | $\geq 0.23$ mm (Core insulation)     |
|                                               | $\geq 0.76$ mm (Outer cable sheath)  |
| Wire colors                                   | Brown, white, blue, black, gray      |
| Overall twist                                 | 5 wires around filler to the core    |
| External sheath, color                        | black-gray RAL 7021                  |
| External cable diameter D                     | 6.3 mm $\pm 0.2$ mm                  |
| Smallest bending radius, movable installation | 63 mm                                |
| Number of bending cycles                      | 2000000                              |
| Bending radius                                | 63 mm                                |
| Traversing path                               | 5 m                                  |
| Traversing rate                               | 3 m/s                                |
| Acceleration                                  | 5 m/s <sup>2</sup>                   |
| Cable weight                                  | 67 kg/km                             |

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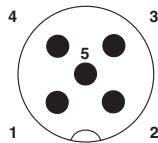
Technical data

Cable

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Outer sheath, material          | PUR                                            |
| Material conductor insulation   | PVC                                            |
| Conductor material              | Bare Cu litz wires                             |
| Insulation resistance           | ≥ 1 MΩ*km (at 20 °C)                           |
| Conductor resistance            | max. 26 Ω/km (at 20 °C)                        |
| Nominal voltage, cable          | ≤ 300 V                                        |
| Test voltage, cable             | ≥ 3000 V                                       |
| Flame resistance                | in accordance with DIN UL-Style 20549          |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (cable, flexible installation) |

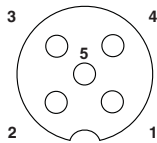
Drawings

Schematic diagram



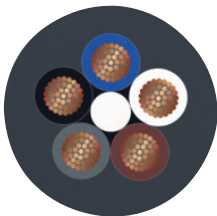
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



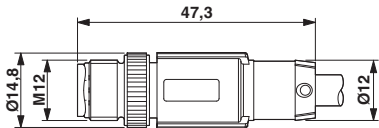
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



PUR POWER 0.75 mm² black [186]

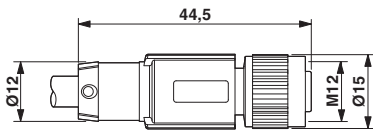
Dimensional drawing



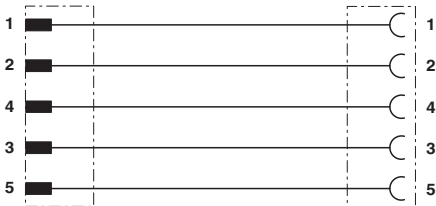
Plug, M12 x 1, straight, shielded

Sensor/Actuator cable - SAC-5P-MS/ 0,75-186/FS SCO - 1577477

Dimensional drawing



Circuit diagram



M12 x 1 socket, straight

Contact assignment of the M12 plug and the M12 socket

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
| Nominal current IN |                                                                                     | 4 A                                                                                                                                                   |               |
| Nominal voltage UN |                                                                                     | 125 V                                                                                                                                                 |               |

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
| Nominal current IN |                                                                                     | 4 A                                                                                                                                                   |               |
| Nominal voltage UN |                                                                                     | 125 V                                                                                                                                                 |               |

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| cULus Listed |  |
|--------------|-------------------------------------------------------------------------------------|



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