

## Sensor/actuator cable - SAC-3P-M 8MS/ 1,0-280/M 8FS BK - 1400342

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

Sensor/actuator cable, 3-position, PUR halogen-free, gray RAL 7001, Plug straight M8, on Socket straight M8, cable length: 1 m

RoHS

### Key Commercial Data

|              |                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                  |
| GTIN         | <br>4 046356 490375 |
| GTIN         | 4046356490375                                                                                         |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 1 m |
|-----------------|-----|

#### Ambient conditions

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

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 4 A          |
| Rated voltage         | 48 V AC      |
|                       | 60 V DC      |
| Number of positions   | 3            |
| Insulation resistance | ≥ 100 MΩ     |
| 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 |

# Sensor/actuator cable - SAC-3P-M 8MS/ 1,0-280/M 8FS BK - 1400342

## Technical data

### Material

|                  |                              |
|------------------|------------------------------|
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR                          |

### Standards and Regulations

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

### Cable

|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| Cable type                                    | PUR halogen-free gray                    |
| Cable type (abbreviation)                     | 280                                      |
| Cable abbreviation                            | Li9Y11Y                                  |
| UL AWM style                                  | 20549                                    |
| Conductor cross section                       | 0.25 mm <sup>2</sup>                     |
| AWG signal line                               | 24                                       |
| Conductor structure signal line               | 32x 0.10 mm                              |
| Core diameter including insulation            | 1.17 mm ±0.02 mm                         |
| Thickness, insulation                         | ≥ 0.21 mm (Core insulation)              |
|                                               | approx. 0.9 mm (Outer cable sheath)      |
| Wire colors                                   | brown, blue, black                       |
| Overall twist                                 | 3 wires, twisted                         |
| External sheath, color                        | silver-gray RAL 7001                     |
| External cable diameter D                     | 4.4 mm ±0.15 mm                          |
| Smallest bending radius, fixed installation   | 44 mm                                    |
| Smallest bending radius, movable installation | 44 mm                                    |
| Number of bending cycles                      | 4000000                                  |
| Bending radius                                | 44 mm                                    |
| Traversing path                               | 10 m                                     |
| Traversing rate                               | 3 m/s                                    |
| Cable weight                                  | 24 kg/km                                 |
| Outer sheath, material                        | PUR                                      |
| Material conductor insulation                 | PP                                       |
| Conductor material                            | Bare Cu litz wires                       |
| Insulation resistance                         | ≥ 100 GΩ*km (at 20 °C)                   |
| Conductor resistance                          | max. 78 Ω/km (at 20 °C)                  |
| Nominal voltage, cable                        | ≤ 300 V                                  |
| Test voltage, cable                           | ≥ 3000 V                                 |
| Flame resistance                              | in accordance with DIN UL-Style 20549    |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815 |

### Environmental Product Compliance

|            |                                          |
|------------|------------------------------------------|
| REACH SVHC | Lead 7439-92-1                           |
| China RoHS | Environmentally Friendly Use Period = 50 |

# Sensor/actuator cable - SAC-3P-M 8MS/ 1,0-280/M 8FS BK - 1400342

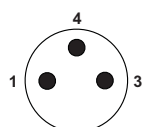
## Technical data

### Environmental Product Compliance

|  |                                                                                                     |
|--|-----------------------------------------------------------------------------------------------------|
|  | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |
|--|-----------------------------------------------------------------------------------------------------|

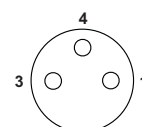
## Drawings

Schematic diagram



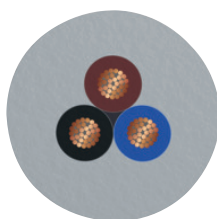
Pin assignment M8 plug, 3-pos., view male side

Schematic diagram



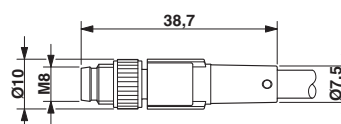
Pin assignment M8 socket, 3-pos., view female side

Cable cross section



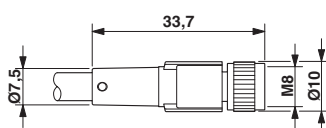
PUR halogen-free gray [280]

Dimensional drawing



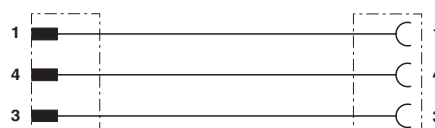
M8 x 1 male plug, straight version

Dimensional drawing



Socket M8 x 1, straight

Circuit diagram



Contact assignment of M8 plugs/sockets

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

## Sensor/actuator cable - SAC-3P-M 8MS/ 1,0-280/M 8FS BK - 1400342

### Approvals

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 voltage UN |                                                                                   | 60 V                                                                                                                                                  |               |
| Nominal current IN |                                                                                   | 4 A                                                                                                                                                   |               |

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 voltage UN |                                                                                   | 60 V                                                                                                                                                  |               |
| Nominal current IN |                                                                                   | 4 A                                                                                                                                                   |               |

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

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phoenix Contact:

1400342