

SAC-3P-MS/0,7-240/A SCO J-YM - Sensor/actuator cable



1410062  
<https://www.phoenixcontact.com/gb/products/1410062>

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Sensor/actuator cable, 3-position, PUR halogen-free, yellow, Plug straight M12 SPEEDCON, coding: A, on Valve connector A, cable length: 0.7 m, Customer version

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1410062                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AF1DDA                         |
| Product key                          | AF1DDA                         |
| GTIN                                 | 4046356888707                  |
| Weight per piece (including packing) | 57.2 g                         |
| Weight per piece (excluding packing) | 57.2 g                         |
| Customs tariff number                | 85444290                       |
| 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                           |
| Seal material                          | TPU                          |
| Material housing valve plug            | TPU                          |
| Material of grip body                  | TPU                          |
| Contact material                       | CuSn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | TPU GF                       |
| Contact material                       | CuSn                         |
| Valve plug contact insert material     | PA 6.6                       |
| Contact surface material               | Sn                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 48 V AC                    |
|                       | 60 V DC                    |
| Nominal current $I_N$ | 4 A                        |

### Connector

#### Connection 1

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

#### Connection 2

|          |                           |
|----------|---------------------------|
| Type     | Valve connector A         |
| Material | CuSn (Contact)            |
|          | Sn (Contact surface)      |
|          | PA 6.6 (Contact carriers) |

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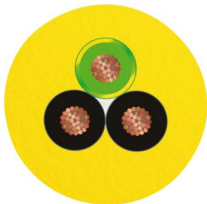
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|  |               |
|--|---------------|
|  | TPU (Housing) |
|--|---------------|

## Cable/line

|              |       |
|--------------|-------|
| Cable length | 0.7 m |
|--------------|-------|

## PUR halogen-free yellow [240]

|                                               |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                           |  |
| Cable weight                                  | 30 kg/km                                                                           |
| UL AWM Style                                  | 20549 (80°C/300 V)                                                                 |
| Number of positions                           | 3                                                                                  |
| Shielded                                      | no                                                                                 |
| Cable type                                    | PUR halogen-free yellow [240]                                                      |
| Conductor structure signal line               | 28x 0.15 mm                                                                        |
| AWG signal line                               | 20                                                                                 |
| Conductor cross section                       | 3x 0.5 mm²                                                                         |
| Wire diameter incl. insulation                | 1.46 mm ±0.02 mm                                                                   |
| External cable diameter                       | 4.50 mm ±0.15 mm                                                                   |
| Outer sheath, material                        | PUR                                                                                |
| External sheath, color                        | yellow                                                                             |
| Conductor material                            | Bare Cu litz wires                                                                 |
| Material wire insulation                      | PP                                                                                 |
| Single wire, color                            | black 1, black 2, green/yellow                                                     |
| Thickness, insulation                         | ≥ 0.21 mm                                                                          |
| Thickness, outer sheath                       | approx. 0.60 mm                                                                    |
| Overall twist                                 | 3 wires, twisted                                                                   |
| Max. conductor resistance                     | ≤ 39 Ω/km                                                                          |
| Insulation resistance                         | ≥ 10 GΩ*km                                                                         |
| Nominal voltage, cable                        | ≤ 300 V                                                                            |
| Test voltage                                  | ≥ 3000 V                                                                           |
| Minimum bending radius, fixed installation    | 5 x D                                                                              |
| Minimum bending radius, flexible installation | 10 x D                                                                             |
| Smallest bending radius, fixed installation   | 23 mm                                                                              |
| Smallest bending radius, movable installation | 45 mm                                                                              |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                           |
| Flame resistance                              | in accordance with DIN UL-Style 20549                                              |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                |
| Ambient temperature (operation)               | -15 °C ... 80 °C (cable, fixed installation)                                       |

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## Environmental and real-life conditions

### 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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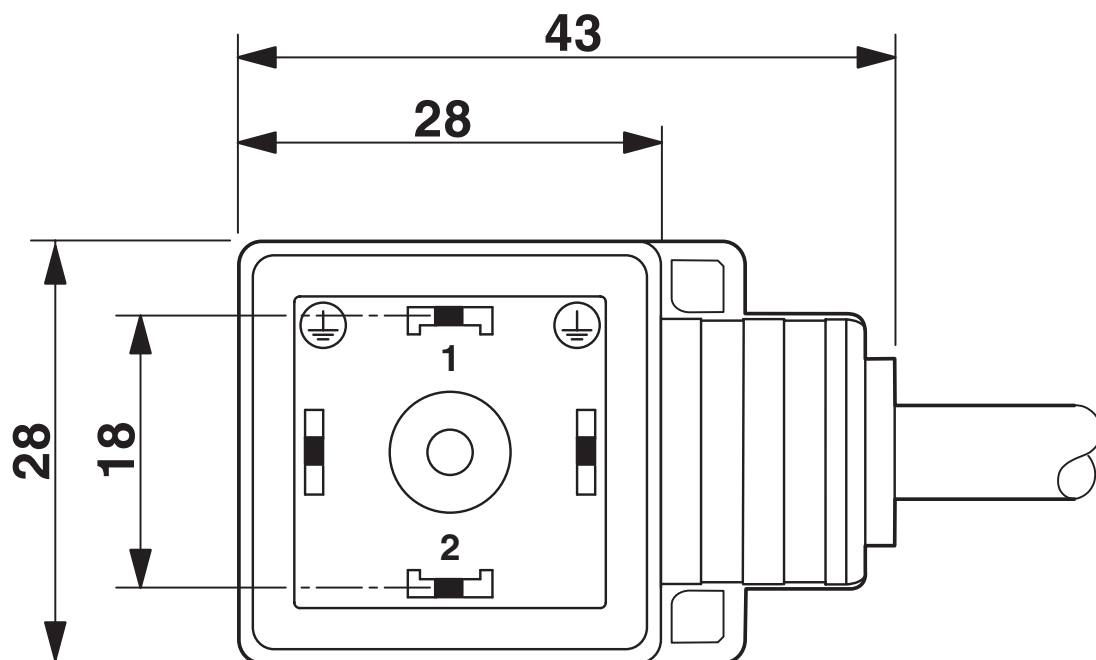
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing

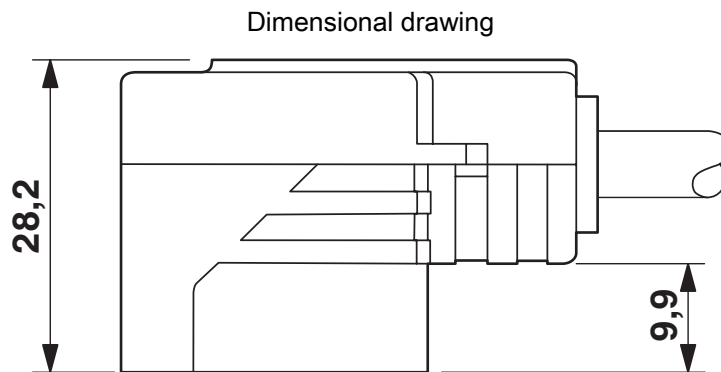


Valve connector, type A

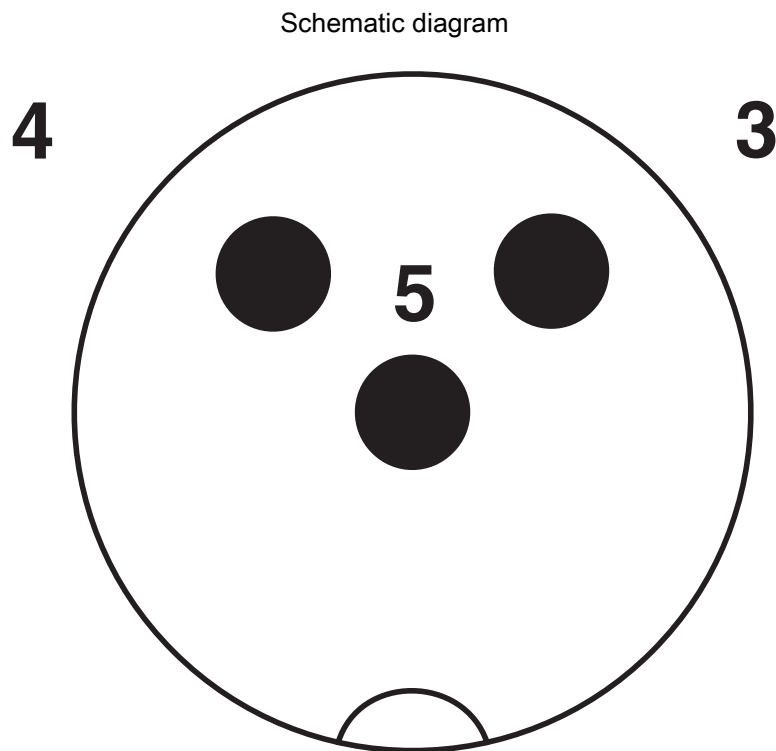
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Valve connector, type A, side view



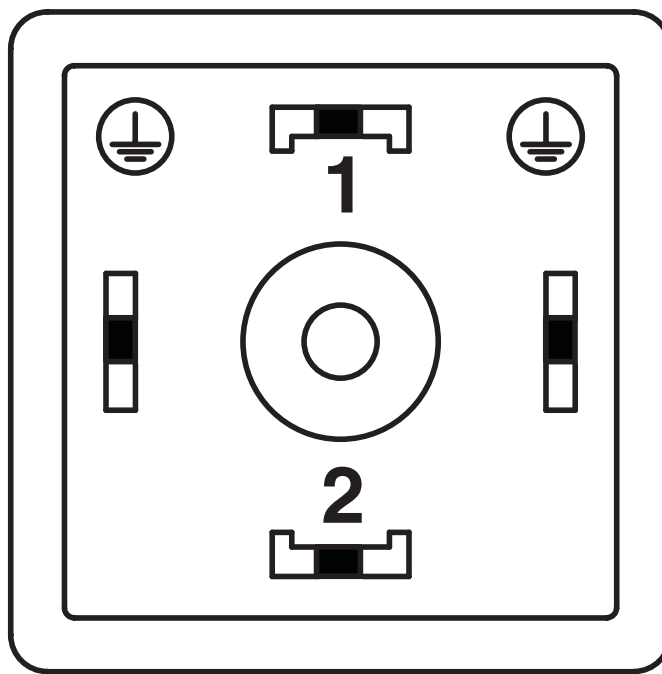
Pin assignment M12 plug, 3-pos., valve connector

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Schematic diagram



Valve connector pin assignment, type A

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## Approvals

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|  <b>CSAus</b><br>Approval ID: 13631 | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                      | 60 V                           | 4 A                            | -                 | -                             |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|

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Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)