

## Sensor/actuator connector - SACC-MS-4QO-0,75-M SCO - 1521591

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Sensor/actuator connector, 4-position, Plug straight M12 SPEEDCON, A-coded, Insulation displacement connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 4 mm ... 8 mm

### Why buy this product

- Safe use in the field, thanks to a high degree of protection
- Flexible: connectors for on-site assembly
- Save time, thanks to installation with SPEEDCON fast locking system
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| GTIN                                 | <br>4 017918 953065 |
| GTIN                                 | 4017918953065   |
| Weight per Piece (excluding packing) | 14.800 g  |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                        |               |
|------------------------|---------------|
| Wrench size, union nut | 15 mm         |
| External diameter      | 4 mm ... 8 mm |

#### Ambient conditions

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -25 °C ... 80 °C (Plug / socket)  |
| Ambient temperature (assembly)  | -5 °C ... 50 °C (During assembly) |
| Degree of protection            | IP65                              |
|                                 | IP67                              |

#### General

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## Technical data

### General

|   |   |
|---|---|
| Rated current at 40°C   | 4 A   |
| Rated voltage   | 250 V                                       |
| Number of positions   | 4   |
| Insulation resistance   | ≥ 100 MΩ                                    |
| Coding  | A - standard                                |
| Standards/regulations   | M12 connector IEC 61076-2-101               |
| Status display  | No  |
| Overvoltage category  | II  |
| Degree of pollution   | 3   |
| Connection method   | Insulation displacement connection          |
| Conductor cross section   | 0.34 mm² ... 0.75 mm²                       |
| Conductor cross section AWG   | 22 ... 18                                   |
| Wire diameter including insulation  | 1.3 mm ... 2.6 mm                           |
| Frequency of connections between conductors of the same cross section       | 10  |
| Wire insulation material  | PVC / PE / PP / rubber                      |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 2-6                                   |
| Insertion/withdrawal cycles   | ≥ 100                                       |
| Torque  | 0.4 Nm (M12 knurl)<br>1.5 Nm (Pressure nut) |
| Assembly instructions   | AWG 18 wire cross section upon request      |

### Material

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact material                       | CuSn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | TPU                          |
| Material of grip body                  | PA 6                         |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | NBR                          |

### Standards and Regulations

|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Connection in acc. with standard       | CUL             |
| Flammability rating according to UL 94 | V0              |

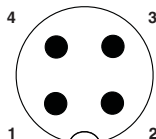
### Environmental Product Compliance

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

## Drawings

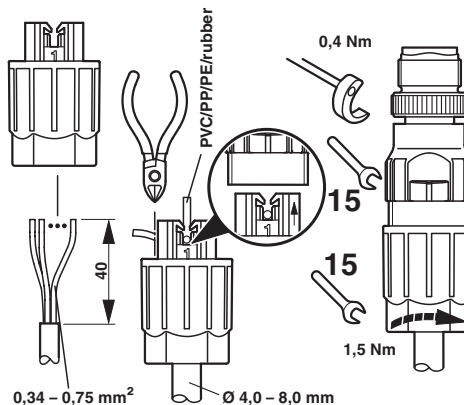
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Schematic diagram

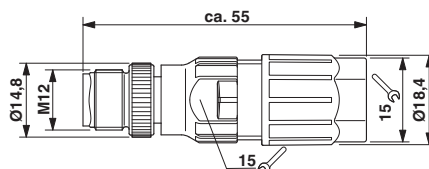


Pin assignment M12 plug, 4-pos., A-coded, view plug side

Functional drawing



Dimensional drawing



Plug, M12 x 1, straight, shielded

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440104 |
| eCl@ss 9.0 | 27440102 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000516 |
| ETIM 3.0 | EC000516 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |
| ETIM 6.0 | EC002062 |

UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 6.01 | 31261501 |
|-------------|----------|

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 39121413 |

## Approvals


### Approvals


#### Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |   |   |               |
|--------------------|---|---|---------------|
| UL Recognized      |  | <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 118976 |
| Nominal current IN |   | 4 A   |               |
| Nominal voltage UN |   | 300 V   |               |

|                    |   |   |               |
|--------------------|---|---|---------------|
| cUL Recognized     |  | <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 118976 |
| Nominal current IN |   | 4 A   |               |
| Nominal voltage UN |   | 300 V   |               |

|     |   |               |
|-----|---|---------------|
| EAC |  | EAC-Zulassung |
|-----|---|---------------|

|     |   |                     |
|-----|---|---------------------|
| EAC |  | 7500651.22.01.00246 |
|-----|---|---------------------|

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### Approvals

cULus Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

### Accessories

#### Accessories

##### Cable by the meter

Cable reel - SAC-4P-100,0-PUR/0,34 - 1501663



Cable ring, PUR halogen-free black, 4-pos., conductor colors: brown / white / blue / black, cable length: 100 m

Cable reel - SAC-4P-100,0-186/0,75 - 1457461



Cable ring, PUR/PVC black, 4-pos., conductor colors: brown / white / blue / black, cable length: 100 m

#### Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 sockets



#### Screwdriver tools

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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### Accessories

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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### Socket spanner

Socket wrench - QSS 15 - 1641992



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 15 mm

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### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm