

## Sensor/actuator connector - SACC-M12MS-4QO-0,75-M - 1641785

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Sensor/actuator connector, Universal, 4-position, Plug straight M12, 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
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

RoHS

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 921866
GTIN	4017918921866
Weight per Piece (excluding packing)	0.015 kg
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Dimensions

Wrench size, union nut	15 mm
Diameter housing	18.4 mm
Length	55 mm
External cable diameter	4 mm ... 8 mm
Stripping length of the sheath	40 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

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## Technical data

### General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector according to IEC 61076-2-101
Signal type/category	Universal
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Insulation displacement connection
Conductor cross section	0.34 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
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) 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	according to IEC 61076-2-101
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

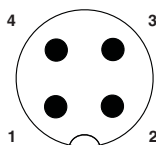
### Environmental Product Compliance

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

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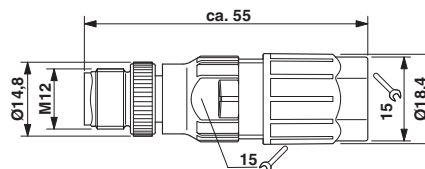
## Drawings

Schematic diagram



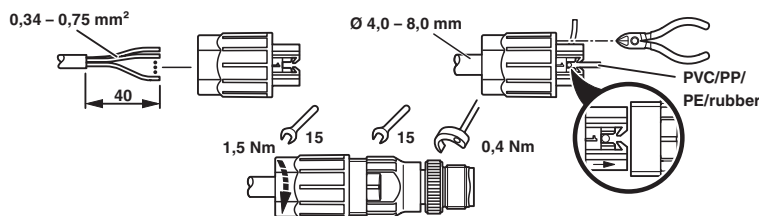
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Dimensional drawing



Plug, M12 x 1, straight, shielded

Functional drawing



## Classifications

eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143400
eCl@ss 6.0	27279200
eCl@ss 7.0	27440104
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

ETIM

ETIM 2.0	EC001121
ETIM 3.0	EC002062
ETIM 4.0	EC002062
ETIM 5.0	EC002062
ETIM 6.0	EC002062

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501

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## Classifications

### UNSPSC

UNSPSC 13.2	39121413
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## Approvals


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UL Recognized / cUL Recognized / 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 voltage UN		300 V	
Nominal current IN		4 A	

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 voltage UN		300 V	
Nominal current IN		4 A	

EAC		EAC-Zulassung
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cULus 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>
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## Accessories

### Accessories

Cable by the meter

## Sensor/actuator connector - SACC-M12MS-4QO-0,75-M - 1641785

### Accessories

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

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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

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### 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 plugs



### 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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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

## Sensor/actuator connector - SACC-M12MS-4QO-0,75-M - 1641785

### Accessories

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

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[6282-2SG-321](#) [6282-5PG-311](#) [6282-6PG-519](#) [6283-11](#) [6283-15](#) [6290](#) [6293](#) [6382-2PG-311](#) [6382-2SG-321](#) [6382-2SG-3DC](#) [6382-4SG-516](#)  
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