

# Flush-type connector - SACC-E-M12FS-4CON-PG9/1,0 - 1503276


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Sensor/Actuator flush-type socket, 4-pos., M12, A-coded, front/screw mounting with Pg9 thread, with 1 m TPE litz wire, 4 x 0.25 mm²

RoHS

## Key Commercial Data

Packing unit	1 pc
Minimum order quantity	5 pc
GTIN	 4 017918 846633
GTIN	4017918846633
Weight per Piece (excluding packing)	30.000 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Length of cable	1 m
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### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-25 °C ... 90 °C (cable, fixed installation)
Degree of protection	IP67

### General

Rated current at 40°C	4 A
Rated voltage	250 V
Rated surge voltage	2.5 kV

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## Technical data

### General

Number of positions	4
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	A - standard
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Individual wires

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA66 GF
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

### Cable

Cable type	TPE litz wire
Conductor cross section	$0.34 \text{ mm}^2$
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	$1.2 \text{ mm} \pm 0.07 \text{ mm}$
Thickness, insulation	0.21 mm
Wire colors	brown, white, blue, black
Material conductor insulation	TPE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$
Conductor resistance	$\leq 57.6 \text{ }\Omega/\text{km}$
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC

### Standards and Regulations

Flammability rating according to UL 94	V0
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified

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## Technical data

### Standards and Regulations

	personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	<ul style="list-style-type: none"> <li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul style="list-style-type: none"> <li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
	<ul style="list-style-type: none"> <li>• Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul style="list-style-type: none"> <li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="http://phoenixcontact.com/products">phoenixcontact.com/products</a>).</li> </ul>
	<ul style="list-style-type: none"> <li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul style="list-style-type: none"> <li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul style="list-style-type: none"> <li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	<ul style="list-style-type: none"> <li>• Observe the corresponding technical data. You will find information:               <ul style="list-style-type: none"> <li>o On the product</li> <li>o On the packing label</li> <li>o In the supplied documentation</li> <li>o Online at <a href="http://phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Only use tools recommended by Phoenix Contact</li> </ul>
	<ul style="list-style-type: none"> <li>• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at <a href="http://phoenixcontact.com/products">phoenixcontact.com/products</a></li> </ul>
	<ul style="list-style-type: none"> <li>• Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul style="list-style-type: none"> <li>• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector</li> </ul>
	<ul style="list-style-type: none"> <li>• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li> </ul>

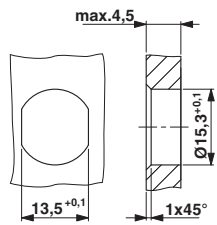
### Environmental Product Compliance

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

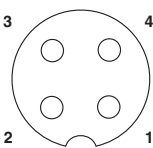
## Drawings

Flush-type connector - SACC-E-M12FS-4CON-PG9/1,0 - 1503276

Dimensional drawing



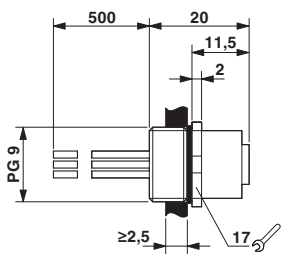
Schematic diagram



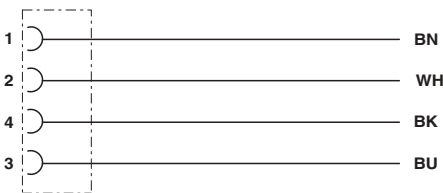
Pin assignment M12 socket, 4-pos., A-coded, view female side

Housing cutout for Pg9 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Dimensional drawing



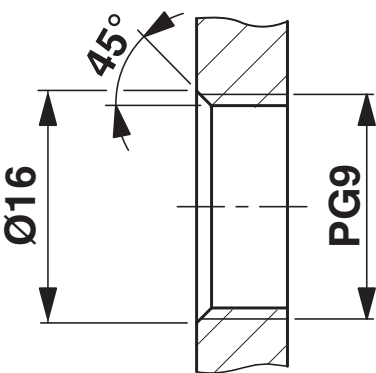
Circuit diagram



M12 flush-type connector

Contact assignment of the M12 plug and the M12 socket

Dimensional drawing



Housing cutout for Pg9 fastening thread, mounting panel with thread

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## Classifications

### eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 11.0	27440102
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27279200
eCl@ss 7.0	27440103
eCl@ss 8.0	27440103
eCl@ss 9.0	27440102

### ETIM

ETIM 2.0	EC001297
ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002061
ETIM 6.0	EC002061

### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

## Approvals

### Approvals

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Approvals

UL Recognized / EAC / cULus Recognized


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Ex Approvals


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## 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	250 V		
Nominal current IN	4 A		
mm²/AWG/kcmil	22		

EAC		B.01687
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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>	E221474-20140616
Nominal voltage UN		250 V		
Nominal current IN		4 A		
mm²/AWG/kcmil		22-20		

## Accessories

### Accessories

Circular connectors (device side)

Flat nut - SACC-E-MU-PG9 - 1504084



Flat nut with Pg9 thread