

# SACC-E-M12MS-5CON-M16 PSCUP - Device connector front mounting



1436398

<https://www.phoenixcontact.com/us/products/1436398>

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Sensor/actuator flush-type connector, male, 5-pos., M12, A-coded, front/screw mounting with M16 thread, with solder cups, plastic version

## Your advantages

- Standard pin assignments and codings for signal transmission with a uniform design-in design

## Commercial data

Item number	1436398
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB23
Product key	ABQEEJ
GTIN	4046356438346
Weight per piece (including packing)	6.745 g
Weight per piece (excluding packing)	5.7 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
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### Safety note

Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"><li>• 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.</li><li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified 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.</li><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li>• Assembled products may not be manipulated or improperly opened.</li><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="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><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="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li><li>• Only use tools recommended by Phoenix Contact</li><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="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li></ul>
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	<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>

## Mounting

Mounting type	Front mounting (M16 x 1,5)
Tightening torque	1.25 Nm ... 1.5 Nm (Installation-side)

## Product properties

Product type	Circular connectors (device side)
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12

## Insulation characteristics

Overvoltage category	II
Degree of pollution	3

## Material specifications

Material Housing	PA 6.6
Material Insulating body	PA 6.6
Material Contact	CuZn
Material Contact surface	Au
Material Seal	Viton
Flammability rating according to UL 94	HB

## Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage $U_N$	60 V
Nominal current $I_N$	4 A

## Connection data

### Conductor connection

Connection method	Solder cup
Contact connection type	Pin

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Conductor cross-section flexible	... 0.25 mm <sup>2</sup>
Tightening torque	1.25 Nm ... 1.5 Nm (Installation-side)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Connector

### Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Coding	A

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-101

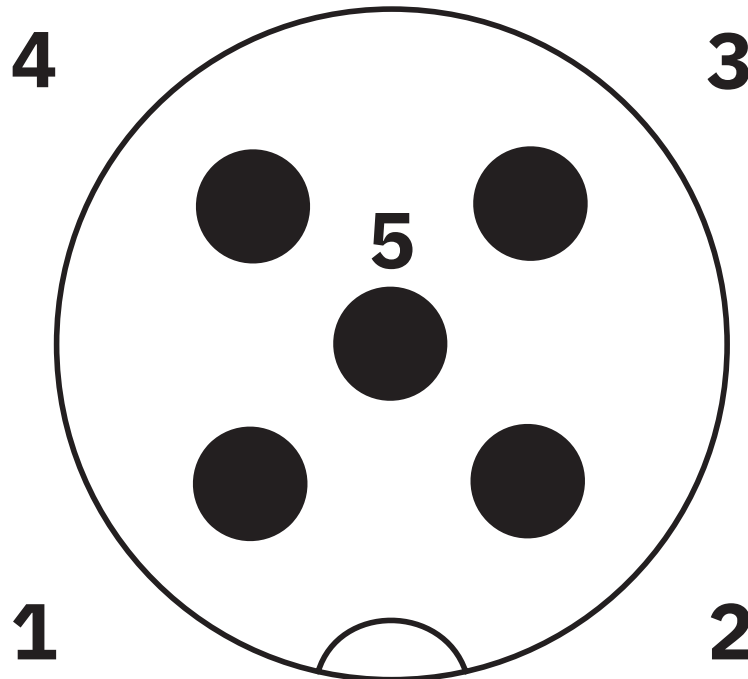
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## Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Diagram



I = current strength, T = ambient temperature

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1436398>



**cULus Recognized**

Approval ID: E221474-20070307

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## Classifications

### ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

### ETIM

ETIM 10.0	EC003569
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	68a7d48f-12c7-44d0-838c-f61733639c95

### EF3.1 Climate Change

CO2e kg	0.498 kg CO2e
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