

# SACC-5P-DSI-M12MSB/FSB-M16 - Device connector, rear mounting

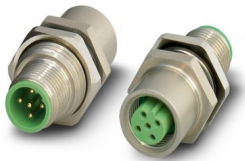


1551684

<https://www.phoenixcontact.com/pc/products/1551684>

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Sensor/actuator control cabinet feed-through, male to female, 5-pos., M12, shielded, B-coded, bipolar/screw mounting with M16 thread



## Commercial data

Item number	1551684
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABQFAA
Catalog page	Page 53 (C-2-2019)
GTIN	4046356156219
Weight per piece (including packing)	41.6 g
Weight per piece (excluding packing)	31 g
Customs tariff number	85366990
Country of origin	CZ

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## Technical data

### Notes

General	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.
Safety note	<p data-bbox="849 819 1452 902">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 data-bbox="849 916 1469 2085" style="list-style-type: none"><li data-bbox="849 916 1430 1025">• 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 data-bbox="849 1041 1469 1234">• 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 data-bbox="849 1249 1437 1305">• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li data-bbox="849 1321 1449 1377">• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li data-bbox="849 1393 1425 1449">• Assembled products may not be manipulated or improperly opened.</li><li data-bbox="849 1464 1449 1543">• 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 data-bbox="849 1559 1430 1615">• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li data-bbox="849 1630 1398 1686">• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li data-bbox="849 1702 1409 1780">• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><li data-bbox="849 1796 1417 1957">• Observe the corresponding technical data. You will find information:<ul data-bbox="849 1848 1417 1957" style="list-style-type: none"><li data-bbox="849 1848 1011 1877">o On the product</li><li data-bbox="849 1877 1062 1906">o On the packing label</li><li data-bbox="849 1906 1153 1935">o In the supplied documentation</li><li data-bbox="849 1935 1417 1957">o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li><li data-bbox="849 1973 1337 2002">• Only use tools recommended by Phoenix Contact</li><li data-bbox="849 2018 1449 2085">• 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><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><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>
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## Mounting

Mounting type	Bipolar mounting M16 x 1.5
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## Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	5
Coding	B
Thread type	M12

## Insulation characteristics

Overvoltage category	II
Degree of pollution	2

## Material specifications

Flammability rating according to UL 94	HB
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Brass, nickel-plated

## 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

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Connector

### Connection 1

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

## Connection 2

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	B

## Cable/line

Signal type/category	Universal
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
	IP65/IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

## Standards and regulations

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

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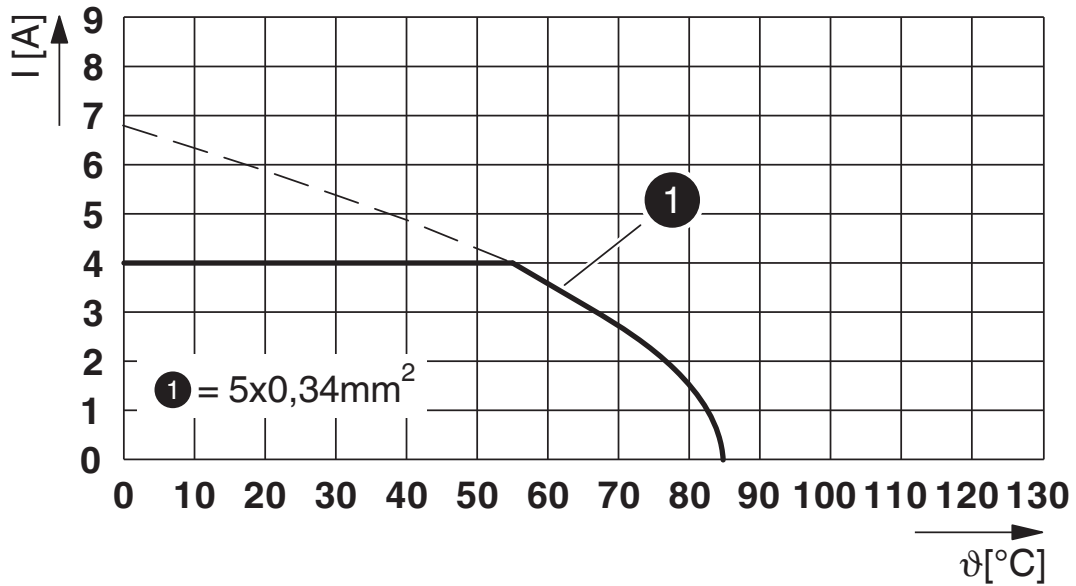


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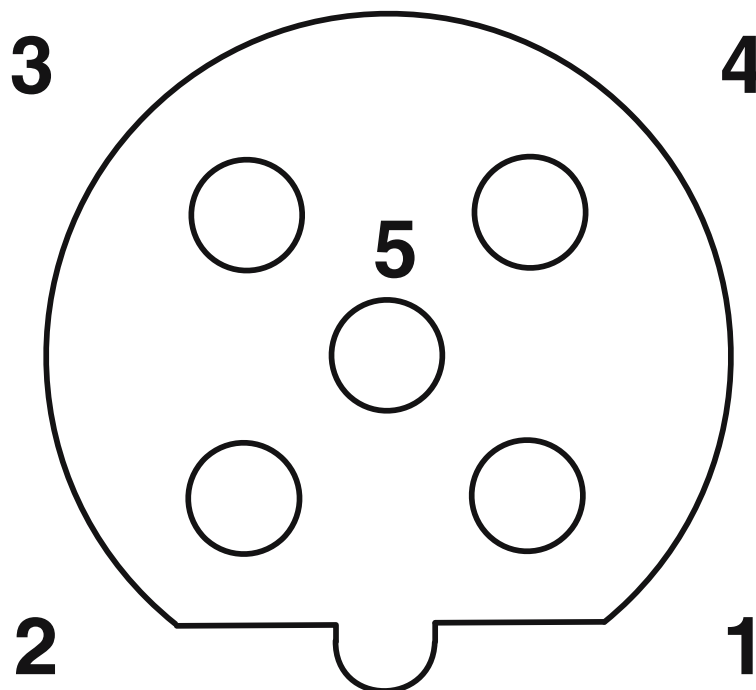
## Drawings

Diagram



I = current strength, T = ambient temperature

Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

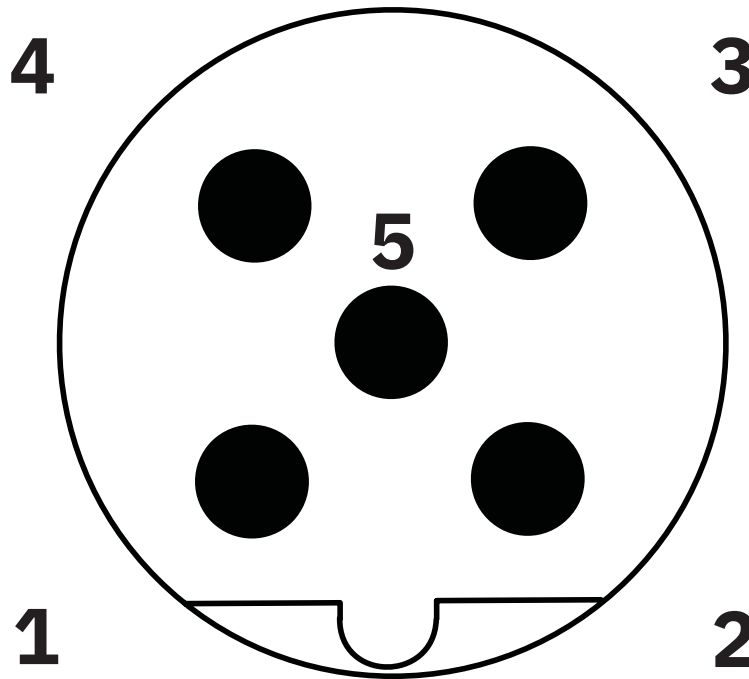
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Schematic diagram



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

Circuit diagram



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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)