

# SACC-DSI-M12MSB-5CON-M16/0,8 - Device connector rear mounting



1413178  
<https://www.phoenixcontact.com/us/products/1413178>

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Device connector rear mounting, 5-position, Pin, straight, M12, coding: B, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.5 m, 0.34 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239012

## Commercial data

Item number	1413178
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCGB
GTIN	4046356991346
Weight per piece (including packing)	42.6 g
Weight per piece (excluding packing)	42.2 g
Customs tariff number	85444290
Country of origin	DE



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## connector rear mounting



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### Technical data

#### Notes

Order information:	Lock nut is included in the scope of delivery
General	Contact connection method: Crimp connection

#### 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><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</li></ul>
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connector

- 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).

## Mounting

Mounting type

Rear mounting M16 x 1.5

## Product properties

Product type

Circular connectors (device side)

Number of positions

5

Coding

B

Thread type

M12

## Insulation characteristics

Overvoltage category

III

Degree of pollution

3

## Material specifications

Material wire insulation

TPE

Conductor material

Tin-plated Cu litz wires

## Electrical properties

Rated surge voltage

1.5 kV AC

Contact resistance

$\leq 3 \text{ m}\Omega$

Insulation resistance

$\geq 100 \text{ M}\Omega$

Nominal voltage  $U_N$

60 V

Nominal current  $I_N$

4 A

## Connection data

### Conductor connection

Connection method

Individual wires

Contact connection type

Pin

Conductor cross section

0.34 mm<sup>2</sup>

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles

> 100

## Connector

### Connection 1

Head design

Pin



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Head cable outlet	straight
Head thread type	M12
Coding	B

## Connection 2

Head design	free cable end
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## Cable/line

Cable length	0.5 m
Wire diameter incl. insulation	1.2 mm $\pm$ 0.07 mm
Single wire, color	brown, white, blue, black, gray
Cable cross section	0.34 mm <sup>2</sup>
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
	IP65/IP67
Ambient temperature (operation)	-25 °C ... 85 °C

## Standards and regulations

Standards/specifications	according to IEC 61076-2-101
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# SACC-DSI-M12MSB-5CON-M16/0,8 - Device connector rear mounting

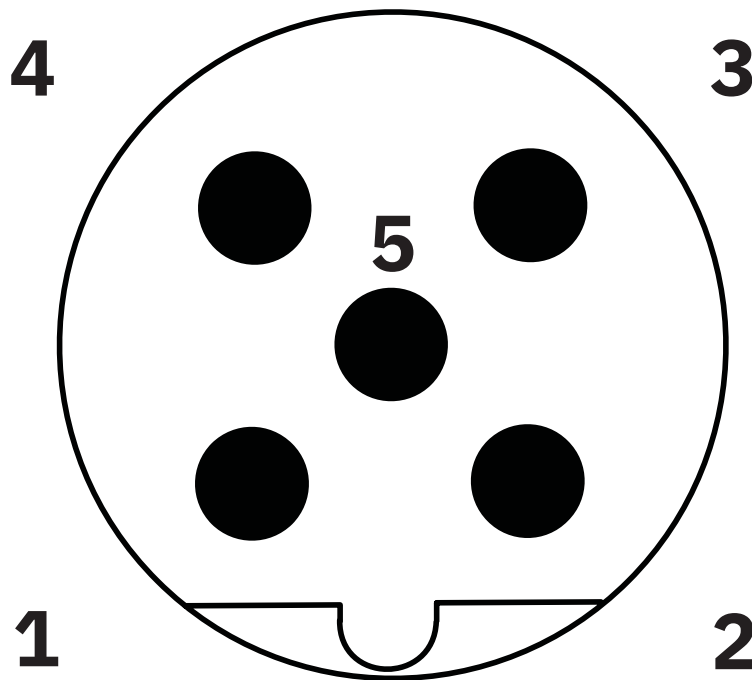


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## Drawings

Schematic diagram



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



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Circuit diagram






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## Approvals

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 <b>cUL Recognized</b> Approval ID: E118976-20100522				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	22 - 22	-

 <b>UL Recognized</b> Approval ID: E118976-20100522				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	22 - 22	-

 <b>cULus Recognized</b> Approval ID: E221474-20140616				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	22 - 20	-

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

### ETIM

ETIM 8.0	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	9a492313-bca8-4117-abb6-eb952e95c111

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