

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



1239012

<https://www.phoenixcontact.com/us/products/1239012>

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Device connector rear mounting, 5-position, Pin, straight, M12, B-coding, on free cable end, Individual wires, cable length: 0.5 m, 0.34 mm², potted, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Commercial data

Item number	1239012
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	ABQCGB
GTIN	4063151390808
Weight per piece (including packing)	32.4 g
Weight per piece (excluding packing)	30.182 g
Country of origin	DE

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Technical data

Notes

Order information:	Lock nut is included in the scope of delivery
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Safety note

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.
	<ul style="list-style-type: none">• 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.
	<ul style="list-style-type: none">• 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.
	<ul style="list-style-type: none">• The products are suitable for applications in plant, controller, and electrical device engineering.
	<ul style="list-style-type: none">• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	<ul style="list-style-type: none">• Assembled products may not be manipulated or improperly opened.
	<ul style="list-style-type: none">• 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 phoenixcontact.com/products).
	<ul style="list-style-type: none">• When using the product in direct connection with third-party manufacturers, the user is responsible.
	<ul style="list-style-type: none">• For operating voltages > 50 V AC, conductive connector housings must be grounded
	<ul style="list-style-type: none">• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	<ul style="list-style-type: none">• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none">o On the producto On the packing labelo In the supplied documentationo Online at phoenixcontact.com/products under the product
	<ul style="list-style-type: none">• Only use tools recommended by Phoenix Contact
	<ul style="list-style-type: none">• 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 phoenixcontact.com/products
<ul style="list-style-type: none">• Ensure that the protective or functional ground has been properly connected.	
<ul style="list-style-type: none">• 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	

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1239012

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• 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).

Product properties

Product type	Circular connectors (device side)
Application	Signal
Number of positions	5
No. of cable outlets	1
Coding	B
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Material specifications

Material Molding compound	PUR (potted)
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 ²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

Head design	Pin
Head cable outlet	straight

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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 ±0.07 mm
Single wire, color	brown, white, blue, black, gray
Cable cross section	0.34 mm ²
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
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

Standards/specifications	according to IEC 61076-2-101
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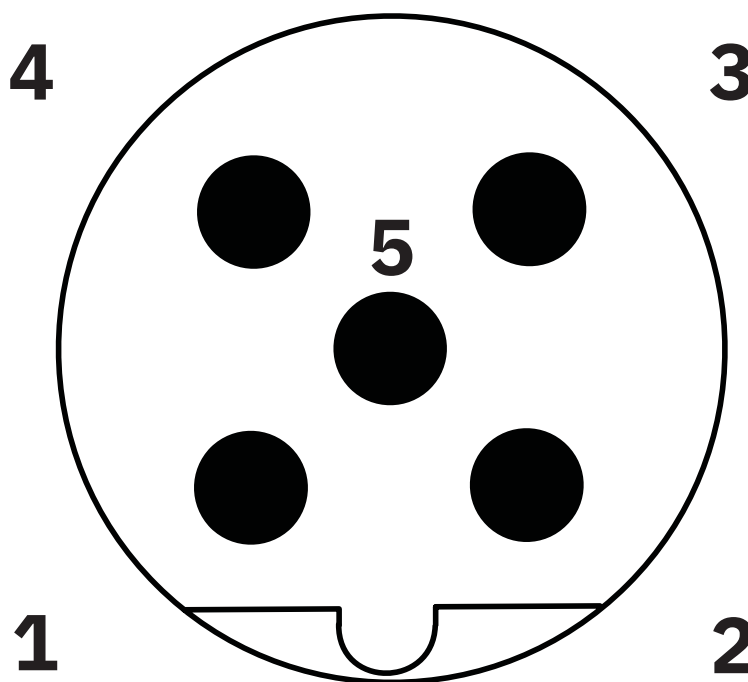
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1239012

<https://www.phoenixcontact.com/us/products/1239012>

Drawings

Schematic diagram



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

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

1239012

<https://www.phoenixcontact.com/us/products/1239012>

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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Classifications

ECLASS

ECLASS-13.0	27440103
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ETIM

ETIM 9.0	EC003570
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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