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Bus system flat-type plug - SACCEC-M12FSB-2CON-M16/4,0-910

1519820

https://www.phoenixcontact.com/gb/products/1519820

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Bus system flush-type socket, PROFIBUS, 2-pos., M12, shielded, B-coded, front/screw mounting with M16 thread, with 4 m bus cable, 2 x 0.25 mm^2

Commercial Data

Item number	1519820
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	ABQCEB
Product Key	ABQCEB
GTIN	4017918940294
Weight per Piece (including packing)	261.9 g
Weight per Piece (excluding packing)	255.5 g
Customs tariff number	85444290
Country of origin	DE

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Technical Data

Notes

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.
	• 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 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.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• 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).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	• Only use tools recommended by Phoenix Contact
	• 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
	• Ensure that the protective or functional ground has been properly connected.
	• 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
	• The connector warms up in normal operation. Depending on the

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	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

Number of positions	2
Shielded	yes
Coding	B - inverse

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Electrical properties

Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)
Test voltage	2500 V
Transmission medium	Copper

LED signaling

Status display	No
Status display present	No

Material specifications

Flammability rating according to UL 94	HB
Insulating material	PA66
Contact material	CuZn
Contact surface material	Ni/Au
Cable gland material	Metal

Connector

Header 1

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

Head 2

Head design	free cable end

Cable / line

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Cable length	4 m

Cable structure

Cable type	PROFIBUS
External cable diameter	7.80 mm
Outer sheath, material	PUR
External sheath, color	red lilac RAL 4001
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	19x 0.12 mm
AWG signal line	24
Material wire insulation	Foamed PE
Wire diameter incl. insulation	2.55 mm ±0.07 mm
Single wire, color	Red, green
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 cores with 2 fillers to the core
Shielding	Braided shielding made of galvanized copper wires
Optical shield covering	80 %

Electrical properties

Nominal voltage, cable	30 V
Test voltage Core/Core	1500 V
Conductor resistance	≤ 78.4 mΩ/m
Cable insulation resistance	≥ 5 GΩ*km
Working capacitance	32 pF (core-core)

Mechanical properties

Smallest bending radius, fixed installation	min. 78 mm
Smallest bending radius, movable installation	min. 78 mm
Number of bending cycles	5000000
Bending radius	78 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	7 m/s²

Bending cycles

Smallest bending radius, fixed installation	min. 78 mm
Smallest bending radius, movable installation	min. 78 mm
Number of bending cycles	5000000
Bending radius	78 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	7 m/s²

Environmental and real-life conditions

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Ambient conditions

Degree of protection	IP67
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)
	-25 °C ... 85 °C (Plug / socket)

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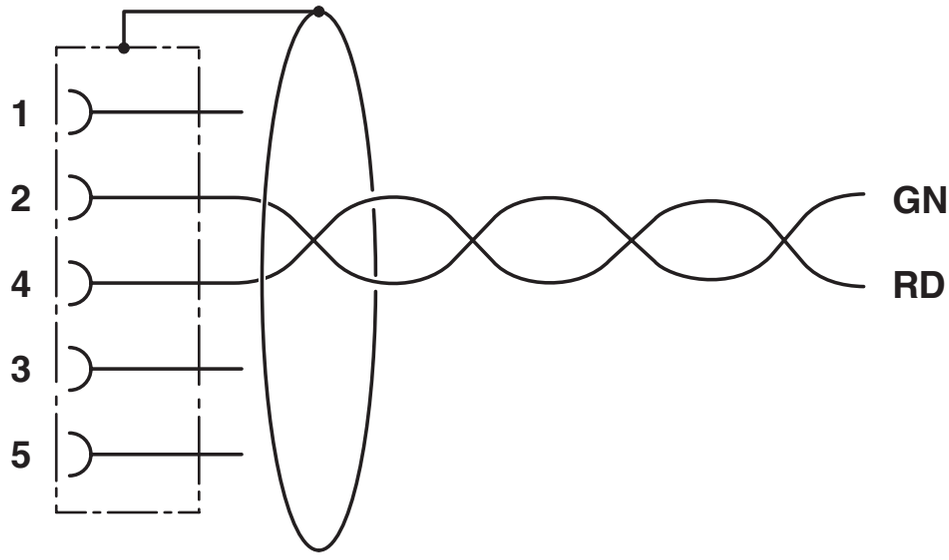
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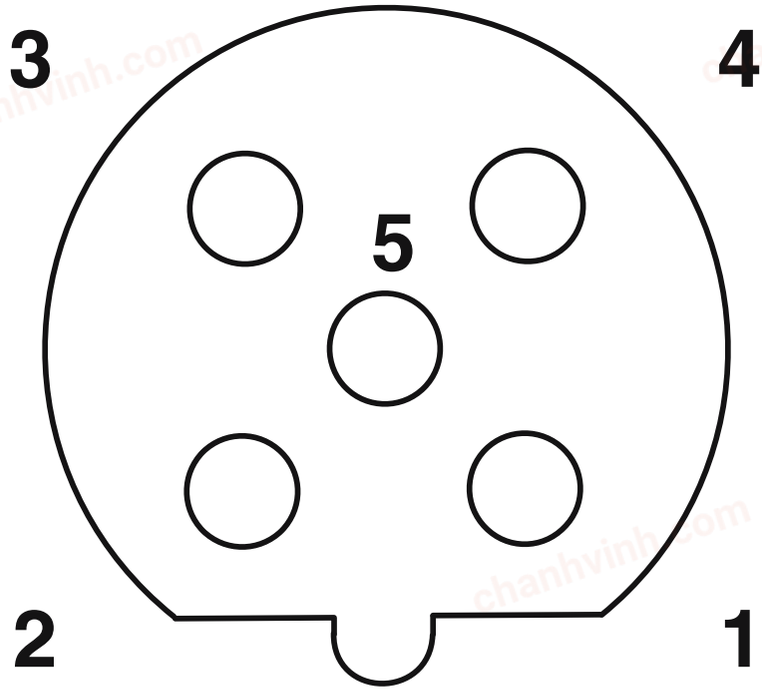
Drawings

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



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

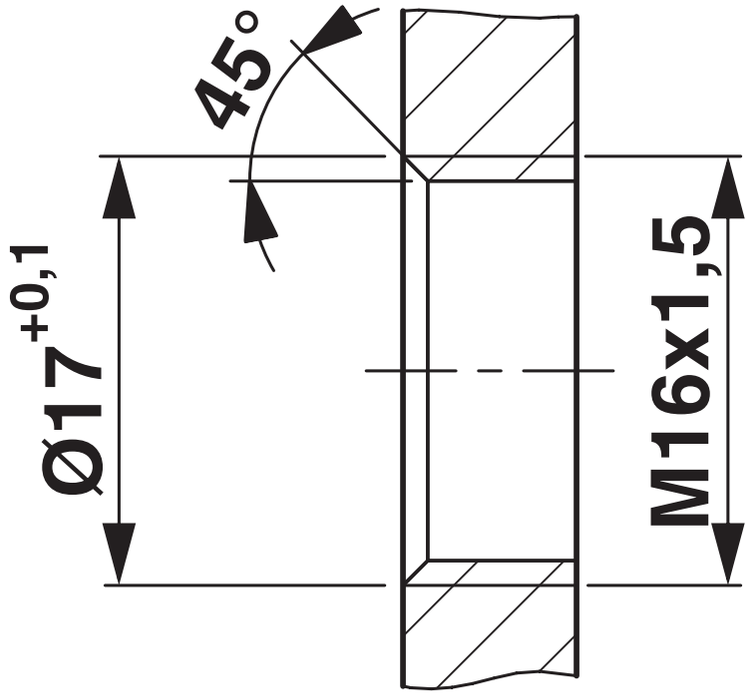
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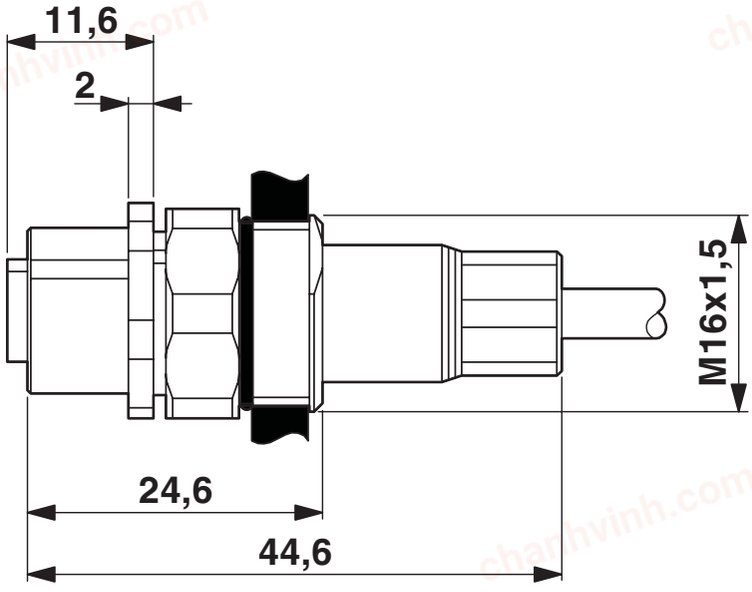
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Dimensional drawing



Housing cutout for M16 fastening thread, mounting panel with thread

Dimensional drawing



M12 flush-type connector

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Approvals

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Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635

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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