

SB-8EP8D8AWT00S - Device connector front mounting



1623729

<https://www.phoenixcontact.com/us/products/1623729>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



M40, Device connector front mounting, series: SB, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Pin, Crimp connection, Axial O-ring, flange dimensions: 40 mm x 40 mm, coding: Signal, coding 2, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Your advantages

- All housing can be fitted with pin or socket contacts
- A total of eight contacts are available for signal transmission
- Mechanical coding reliably prevents incorrect connections
- Safe use in the field, thanks to high degree of protection
- Consistent EMC protection for reliable connection solutions in the industrial environment

Commercial data

Item number	1623729
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEL
Catalog page	Page 128 (C-2-2019)
GTIN	4055626195162
Weight per piece (including packing)	222.2 g
Weight per piece (excluding packing)	135.24 g
Customs tariff number	85366990
Country of origin	DE

SB-8EP8D8AWT00S - Device connector front mounting



1623729

<https://www.phoenixcontact.com/us/products/1623729>

Technical data

Notes

Order information:	Crimp contacts, 8 x Ø 1 mm, 5 x Ø 3.6 mm, order separately
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">• 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• 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• 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• Only use tools recommended by Phoenix Contact• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.• 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• Operate the connector only when it is fully plugged in and interlocked.• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the

SB-8EP8D8AWT00S - Device connector front mounting



1623729

<https://www.phoenixcontact.com/us/products/1623729>

	standards.
	<ul style="list-style-type: none"> • Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	<ul style="list-style-type: none"> • 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)
--------------	-----------------------------------

Connector

Insulating body

Coding	Signal, coding 2
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Connection profile	8+4+PE
Number Contact (Contact group 1)	5
Diameter Contact (Contact group 1)	3.6 mm
Litz wire cross-section min. Contact (Contact group 1)	2.5 mm ²
Litz wire cross-section max. Contact (Contact group 1)	16 mm ²
Rated current Contact (Contact group 1)	70 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	630 V AC (Overvoltage category III/3)
	850 V DC (Overvoltage category II/3)
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Number Contact (Contact group 3)	4
Diameter Contact (Contact group 3)	1 mm
Litz wire cross-section min. Contact (Contact group 3)	0.06 mm ²
Litz wire cross-section max. Contact (Contact group 3)	1.5 mm ²
Nominal current per signal contact	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 3)	500 V AC/DC (Contact 1 ... 4)
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Number Contact (Contact group 2)	4
Diameter Contact (Contact group 2)	1 mm
Litz wire cross-section min. Contact (Contact group 2)	0.06 mm ²
Litz wire cross-section max. Contact (Contact group 2)	1 mm ²
Rated current per data contact at 25°C	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 2)	50 V AC/DC (Contact 5 ... 8)
Rated surge voltage	1.5 kV

SB-8EP8D8AWT00S - Device connector front mounting



1623729

<https://www.phoenixcontact.com/us/products/1623729>

Overvoltage category	II, III
Degree of pollution	3
Installation height	2000 m (4000 m at 300 V system voltage in accordance with DIN EN 60664-1)

Housing

Thread type	M40
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none
Flange dimensions	40 mm x 40 mm
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Material for screw connection	CuZn
Degree of protection (plugged in)	IP68/IP69K

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 115 °C (see derating curve)
---------------------------------	--

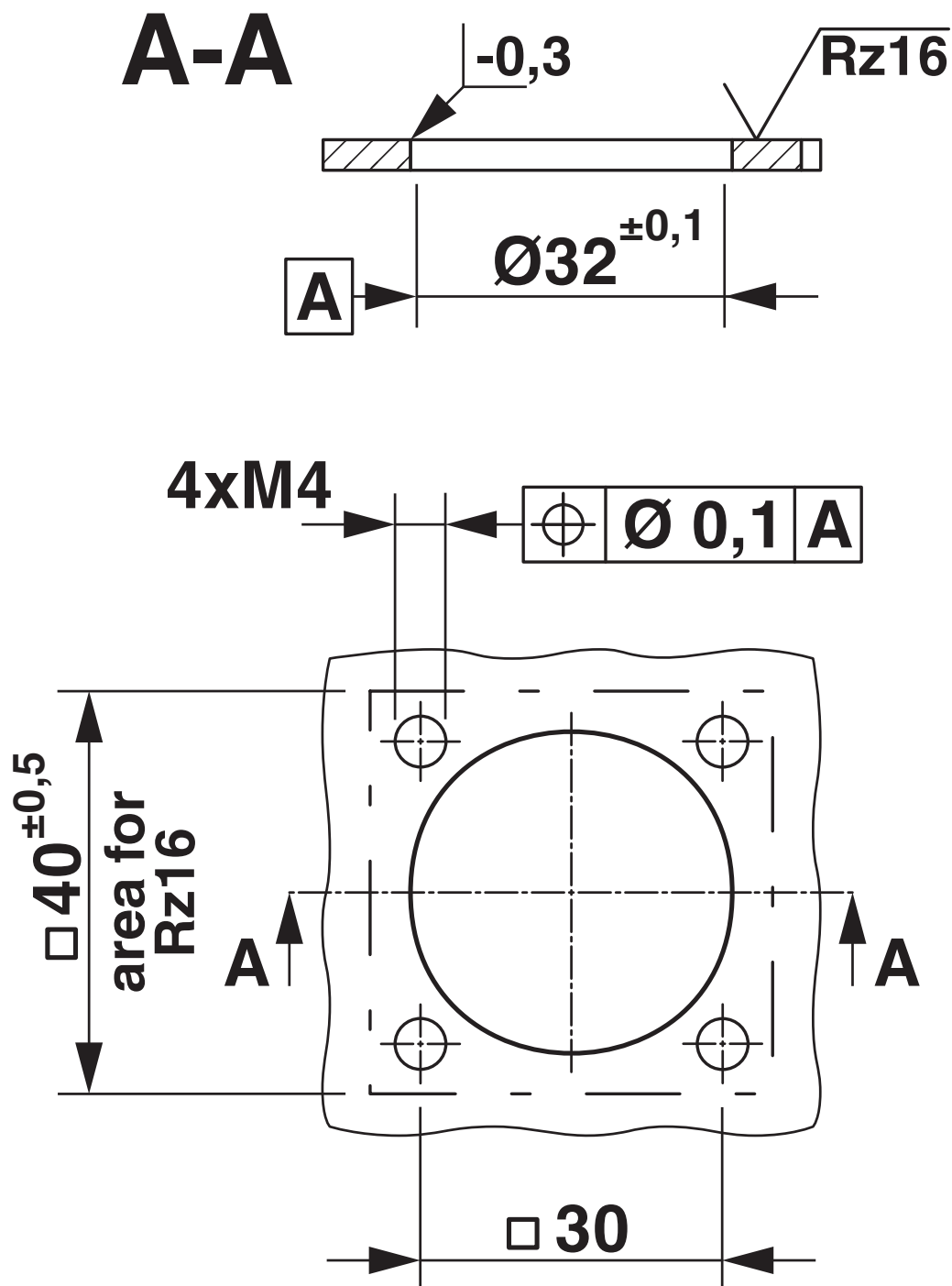
SB-8EP8D8AWT00S - Device connector front mounting

1623729

<https://www.phoenixcontact.com/us/products/1623729>

Drawings

Dimensional drawing



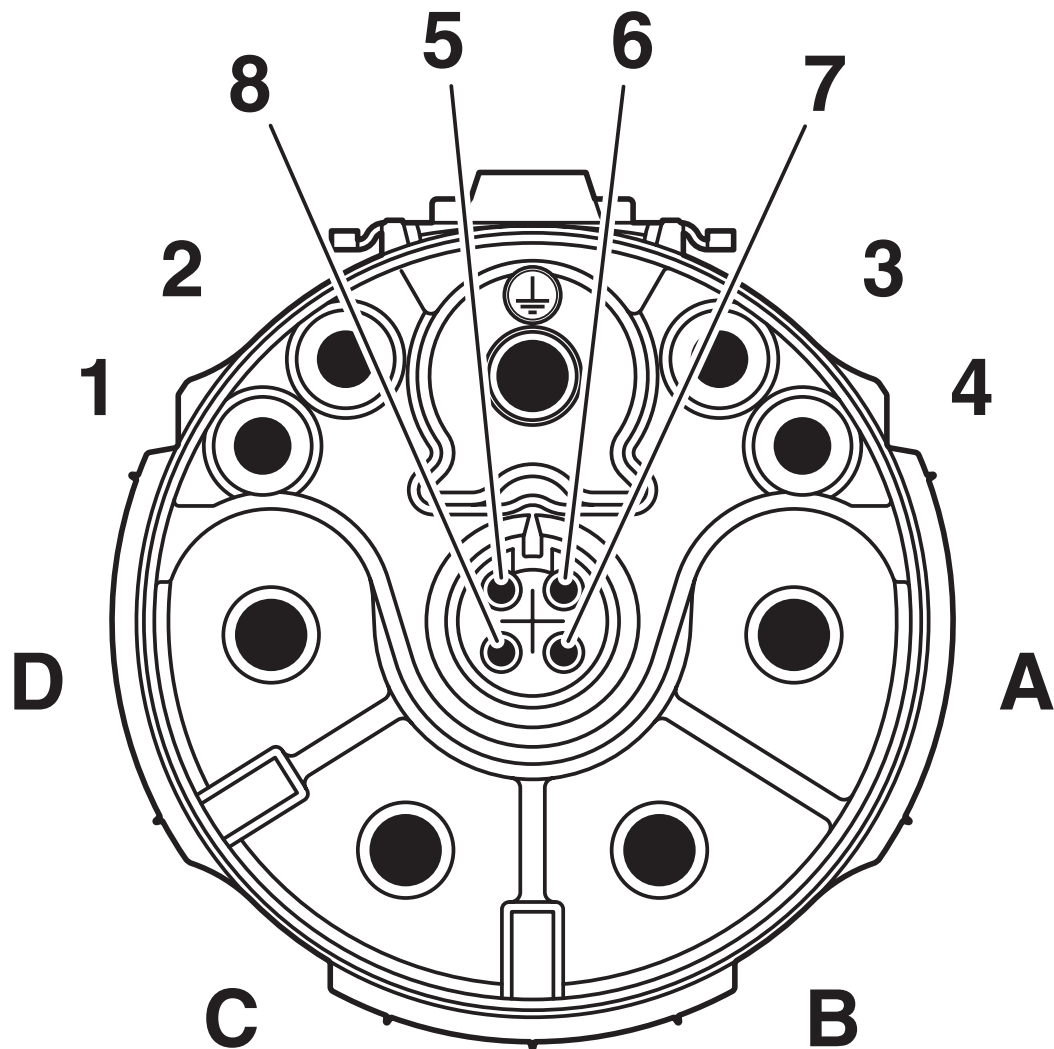
Installation dimensions

SB-8EP8D8AWT00S - Device connector front mounting

1623729

<https://www.phoenixcontact.com/us/products/1623729>

Schematic diagram



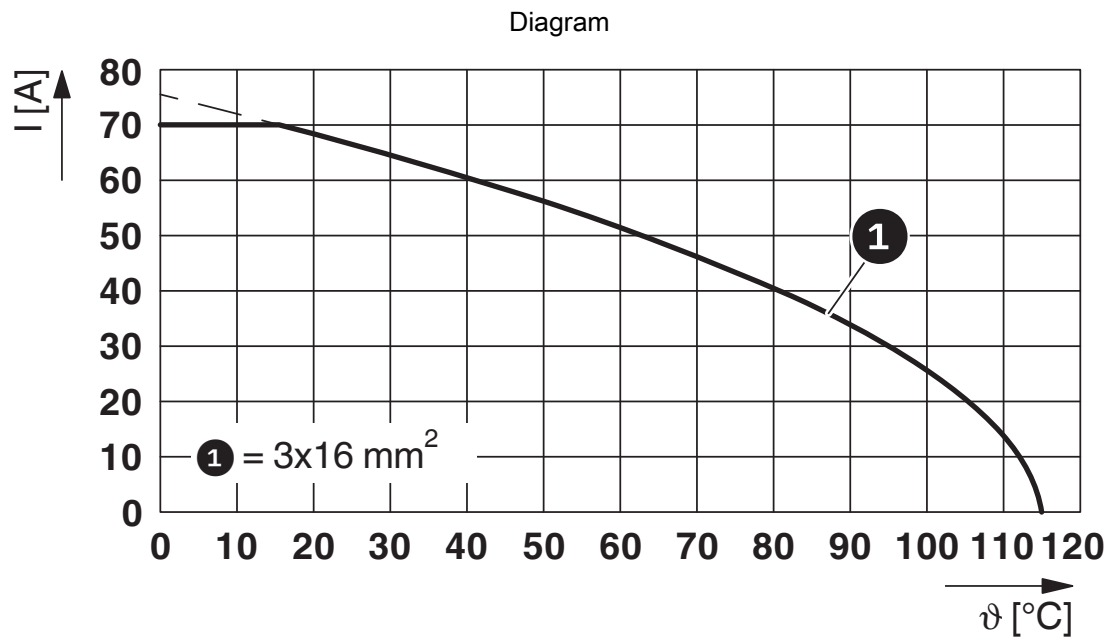
Pin assignment of pin signal, coding 2

SB-8EP8D8AWT00S - Device connector front mounting



1623729

<https://www.phoenixcontact.com/us/products/1623729>



I = current strength, ϑ = ambient temperature, power contacts A–C: 3x up to 70 A, signal contacts: 4x 2 A constant, data contacts: no load

SB-8EP5D8AWT00S - Device connector front mounting





1623729

<https://www.phoenixcontact.com/us/products/1623729>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1623729>

 cUL Recognized Approval ID: E153698-20190718				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	24 A	6	-
Signal	500 V	4 A	1,5	-
Data	50 V	1 A	0,34	-

 UL Recognized Approval ID: E153698-20190718				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	32 A	6	-
Signal	500 V	4 A	1,5	-
Data	50 V	1 A	0,34	-

SB-8EPD8AWT00S - Device connector front mounting



1623729
<https://www.phoenixcontact.com/us/products/1623729>

Classifications

ECLASS

ECLASS-13.0	27440116
-------------	----------

ETIM

ETIM 9.0	EC002635
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

SB-8EPSD8AWT00S - Device connector front mounting



1623729

<https://www.phoenixcontact.com/us/products/1623729>

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	e235ddbb-ad24-4026-b3d7-f5ed8862b256

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com