

1623369

https://www.phoenixcontact.com/us/products/1623369

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M40, Device connector front mounting, series: SB, angled rotatable, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, Axial O-ring, 4x Ø4,2, coding: Signal, coding 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244884

Your advantages

- Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- · 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	1623369
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEM
Catalog page	Page 128 (C-2-2019)
GTIN	4055626194943
Weight per piece (including packing)	603.5 g
Weight per piece (excluding packing)	603.5 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Crimp contacts, 8 x Ø 1 mm, 5 x Ø 3.6 mm, order separately					
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 					
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: On the product On the packing label In the supplied documentation 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 					



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Rated surge voltage

	standards.
	 Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	 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 1
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Connection profile	8+4+PE
Contact diameter Power contacts	3.6 mm
Litz wire cross-section Power contacts min.	1 mm²
Litz wire cross-section Power contacts max.	10 mm²
Rated current Power contacts	70 A
Rated voltage	630 V AC
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	1.5 mm²
Nominal current per signal contact	8 A
Rated voltage Signal contact	500 V
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Data contacts	1 mm
Litz wire cross-section Data contacts min.	0.06 mm²
Litz wire cross-section Data contacts max.	1.5 mm²
Rated current per data contact at 25°C	8 A
Rated voltage Data contacts	50 V

1.5 kV



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Housing

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

Environmental and real-life conditions

Ambient conditions

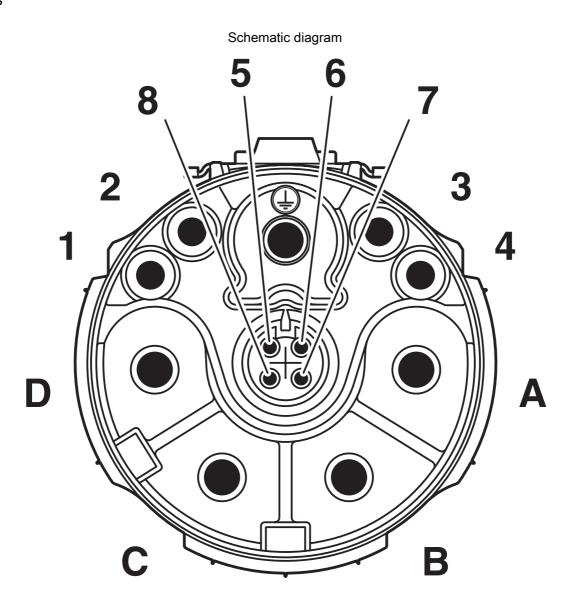
Ambient temperature (operation)	-40 °C 115 °C (see derating curve)
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Drawings



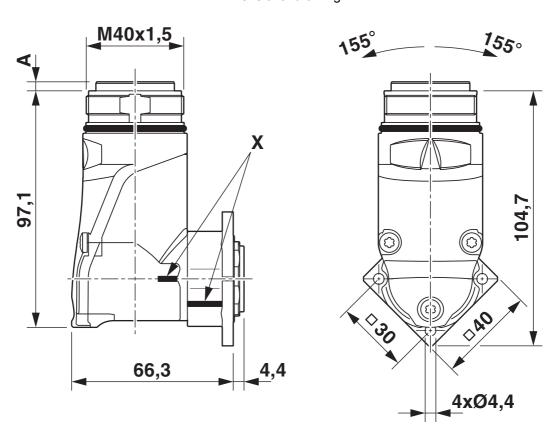
Pin assignment of pin signal, coding 1



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Dimensional drawing



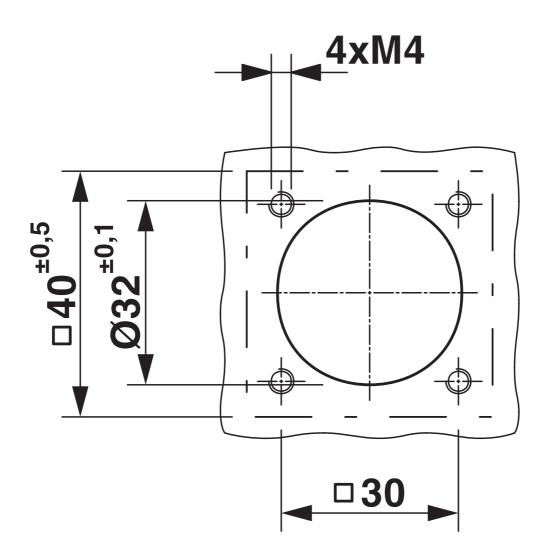
Pin version: dimension A = 3.7 mm, socket version: dimension A = 0.05 mm, X = reference position for angle of rotation



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Dimensional drawing

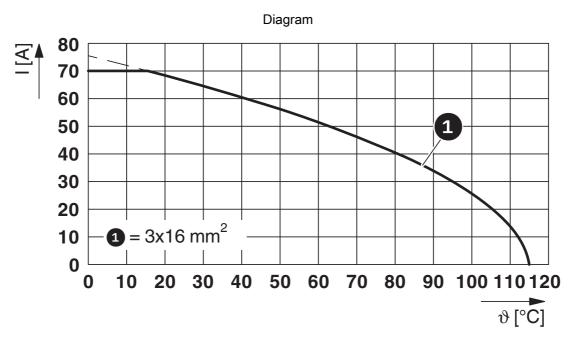


Installation dimensions



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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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1623369

cUL Recognized Approval ID: E153698-2	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	- 16	-
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	- 16	-
Signal	500 V	4 A	- 1,5	-
Data	50 V	1 A	- 0,34	-

cULus Recognized



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Classifications

ECLASS

	ECLASS-11.0	27440102			
	ECLASS-12.0	27440116			
	ECLASS-13.0	27440116			
ETIM					
	ETIM 9.0	EC002635			
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	e2b27581-e271-4c37-9254-523c4d0970d2			



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Accessories

SB-Z0001 - Metal protective cap

1623827

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Metal protective cap, Screw locking mechanism, M40, degree of protection: IP67/68/69K, series: SM, SB, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244989

SB-Z0002 - Metal protective cap

1623828

https://www.phoenixcontact.com/us/products/1623828



Metal protective cap, Screw locking mechanism, M40, degree of protection: IP67, series: SM, SB, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244990



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ST-10KP010 - Crimp contact

1618255

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Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: $0.06~\text{mm}^2$... $0.25~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1243215

ST-10KP035 - Crimp contact

1618458

https://www.phoenixcontact.com/us/products/1618458



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: $0.25~\text{mm}^2$... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215



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SB-10KP001 - Crimp contact

1623607

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Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.06 $\mathrm{mm}^2\dots$ 0. $25~\mathrm{mm}^2$

SB-10KP002 - Crimp contact

1623611

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Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.34 mm^2 ... 0. 5 mm^2



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SB-10KP003 - Crimp contact

1623612

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Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 $\mathrm{mm}^2 \dots$ 1 mm^2

SB-10KP004 - Crimp contact

1623613

https://www.phoenixcontact.com/us/products/1623613



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 1 mm^2 ... 1.5 mm^2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244925



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SB-36KP002 - Crimp contact

1623383

https://www.phoenixcontact.com/us/products/1623383



Crimp contact, Pin, turned, contact diameter: 3.6 mm, crimp range: $2.5 \text{ mm}^2 \dots 4 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244894

SB-36KP003 - Crimp contact

1623384

https://www.phoenixcontact.com/us/products/1623384



Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: $4 \text{ mm}^2 \dots 6 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244894



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SB-36KP004 - Crimp contact

1623385

https://www.phoenixcontact.com/us/products/1623385



Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: $10~\text{mm}^2$... $10~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244895

PROT-M40-PW-OT-IP20 - Plastic protective cap

1577212

https://www.phoenixcontact.com/us/products/1577212



Plastic protective cap, M40, degree of protection: IP20, series: SM, SB



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SM-Z0028 - Color coding

1620627

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Color coding, color: green



SM-Z0029 - Color coding

1620628

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Color coding, color: orange





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SM-Z0030 - Color coding

1620629

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Color coding, color: black



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