

# M23-07S1N12W500S - Device connector front mounting



1339321

<https://www.phoenixcontact.com/in/products/1339321>

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M23, Device connector front mounting, series: M23 PRO Signal, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 7, Direction of rotation: Standard, contact connection type: Socket, Solder connection, 4x Ø 3.2, flange dimensions: 26 mm x 26 mm, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- Modern, consistent design for highly convenient operation
- All housing can be fitted with pin or socket contacts
- Safe use in the field, thanks to high degree of protection

## Commercial data

Item number	1339321
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	ABRABL
GTIN	4063151643232
Weight per piece (including packing)	43.4 g
Weight per piece (excluding packing)	43.4 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Notes on operation	Please observe the derating curve.
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 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 connector</li><li>• Only use tools recommended by Phoenix Contact</li><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li><li>• Operate the connector only when it is fully plugged in and interlocked.</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 minimum bending radius of the cable. Lay the cable without twisting it.</li><li>• 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</li></ul>

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warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Product properties

Product type	Circular connectors (device side)
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## Material specifications

Flammability rating according to UL 94	V0
Housing material	GD-Zn

## Connector

### Insulating body

Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Solder connection
Contact switching type	Socket
Application	Signal
Number of positions	7
Direction of rotation	Standard
Connection profile	7

Contact diameter	2 mm
Litz wire cross-section	0.08 mm <sup>2</sup>
Litz wire cross-section	2.5 mm <sup>2</sup>
Nominal current per signal contact	20 A
Note	for max. connection cross section
Rated voltage	300 V
Rated surge voltage	2.5 kV
Overvoltage category	II
Degree of pollution	3
Installation height	2000 m

### Housing

Housing material	GD-Zn
Flange dimensions	26 mm x 26 mm
Type of locking	for standard and ONECLICK fast locking system
Pg screw connection	none
Degree of protection (plugged in)	IP66 / IP68 (2 m / 24 h)
Thread type	M23

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 105 °C (see to derating)

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1339321

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Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)
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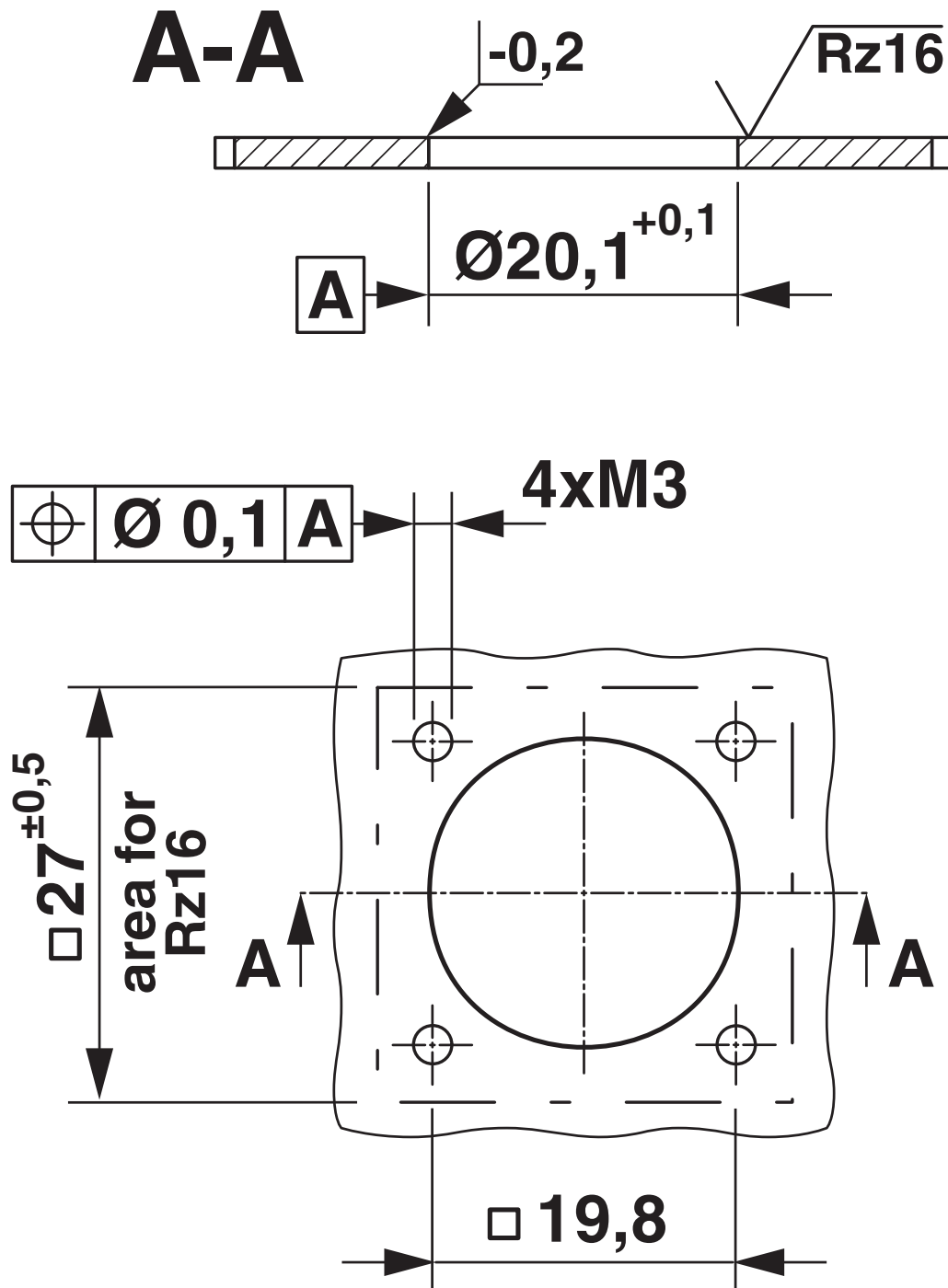
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1339321

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## Drawings

Dimensional drawing



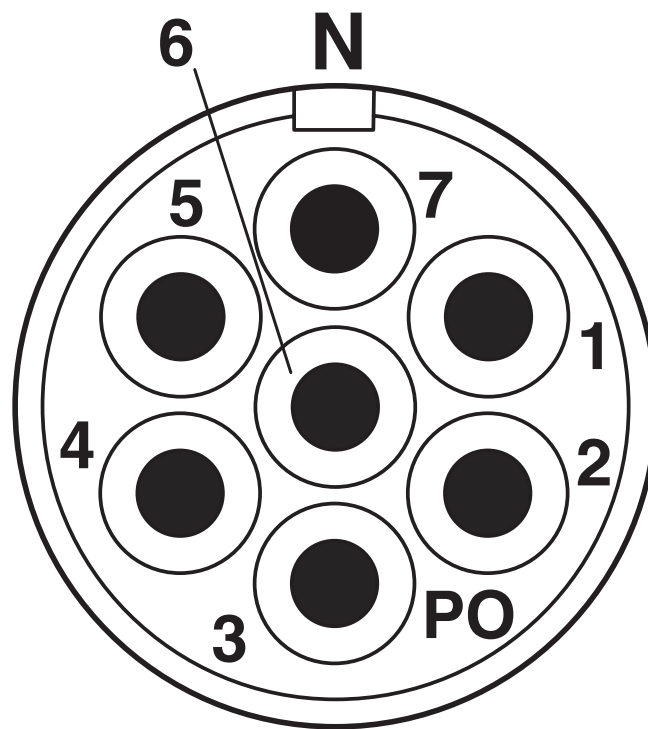
Installation dimensions

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Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1339321>

	<b>cUL Recognized</b>			
	Approval ID: E335019-20141210			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	300 V	10 A	- 14	-

	<b>UL Recognized</b>			
	Approval ID: E335019-20141210			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	300 V	17 A	- 14	-

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

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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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## Accessories

### CA-Z0001 - Contact removal tool

1620699

<https://www.phoenixcontact.com/in/products/1620699>



Unlocking tool for contact carriers for snapping in the M23 signal device connectors

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### PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

<https://www.phoenixcontact.com/in/products/1055753>



Plastic protective cap, M23, series: M23 PRO

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## PROT-M23PRO-OT-IP67 - Plastic protective cap

1055749

<https://www.phoenixcontact.com/in/products/1055749>

Plastic protective cap, M23, series: M23 PRO Signal



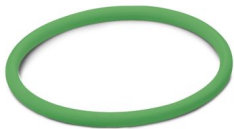
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## M23PRO-VIB-ORING-GN - Sealing ring

1521138

<https://www.phoenixcontact.com/in/products/1521138>

Vibration O-ring, optional accessory for M23 PRO device connectors



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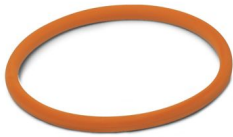
<https://www.phoenixcontact.com/in/products/1339321>

## M23PRO-VIB-ORING-OR - Sealing ring

1521137

<https://www.phoenixcontact.com/in/products/1521137>

Vibration O-ring, optional accessory for M23 PRO device connectors



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