

M23-09S1N8AW500S - Device connector front mounting



1629091

<https://www.phoenixcontact.com/us/products/1629091>

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M23, Device connector front mounting, series: M23 PRO Signal, straight, for standard and ONECLICK fast locking system, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Crimp 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
- Crimping connection: vibration- and temperature-resistant assembly
- 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	1629091
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRABL
GTIN	4055626763026
Weight per piece (including packing)	40.6 g
Weight per piece (excluding packing)	30.8 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

General	Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
General	Please observe the derating curve.

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 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
	• 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.
	• 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 standards.

Safety note	• 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

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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)

Material specifications

Flammability rating according to UL 94

V0

Connector

Insulating body

Note

Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately

Coding

N

Insulation body material

PA 6.6

Insertion/withdrawal cycles

100

Connection method

Crimp connection

Contact switching type

Socket

Application

Signal

Number of positions

9

Direction of rotation

Standard

Connection profile

8+1

Contact diameter **Power contacts**

2 mm

Litz wire cross-section **Power contacts** min.

0.5 mm²

Litz wire cross-section **Power contacts** max.

2.5 mm²

Rated current **Power contacts**

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

Contact diameter **Signal contacts**

1 mm

Litz wire cross-section **Signal contacts** min.

0.08 mm²

Litz wire cross-section **Signal contacts** max.

1 mm²

Nominal current per signal contact

8 A

Note

for max. connection cross section

Rated voltage Signal contact

300 V

Rated surge voltage

2.5 kV

Overvoltage category

II

Degree of pollution

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Installation height

2000 m

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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)
Ambient temperature (storage/transport)	15 °C ... 25 °C
Altitude	2000 m
Permissible humidity (storage/transport)	50 % ... 65 %
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

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Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 9.0	EC003569
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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