

1597488
<https://www.phoenixcontact.com/us/products/1597488>

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M23, Device connector rear mounting, series: RC, straight, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, Flat gasket, Panel thickness min.: 2.7 mm, Panel thickness max.: 3.5 mm, coding: N, this item is expected to be lead-free from Q4 2025 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Commercial data

Item number	1597488
Packing unit	40 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFR
GTIN	4046356216326
Weight per piece (including packing)	29.47 g
Weight per piece (excluding packing)	27.331 g
Country of origin	DE

RC-12P1N8A4100 - Device connector rear mounting



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Technical data

Notes

Order information:	Order crimp contacts Ø 1 mm separately
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Product properties

Product type	Circular connectors (device side)
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Material specifications

Flammability rating according to UL 94	V0
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Connector

Insulating body

Note	Order information: Order crimp contacts Ø 1 mm separately
Coding	N
Material (Insulating body)	PA 6.6
Connection method	Crimp connection
Contact switching type	Pin
Application	Signal
Number of positions	12
Direction of rotation	Standard
Connection profile	12
Number Contact (Contact group 1)	12
Diameter Contact (Contact group 1)	1 mm
Rated current Contact (Contact group 1)	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	48 V AC
	74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Flange housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	none
Mounting type	Rear mounting/square flange (4x M3)
Material (Housing)	Metal
Degree of protection (plugged in)	IP67
Seal for the device	Flat gasket

Environmental and real-life conditions

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Ambient conditions

Degree of protection	IP67
Permissible humidity (storage/transport)	50 % ... 65 %

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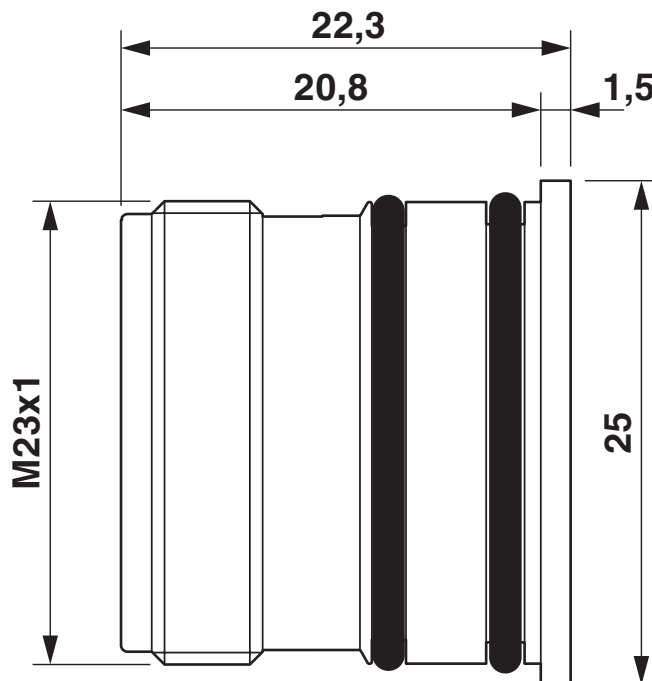
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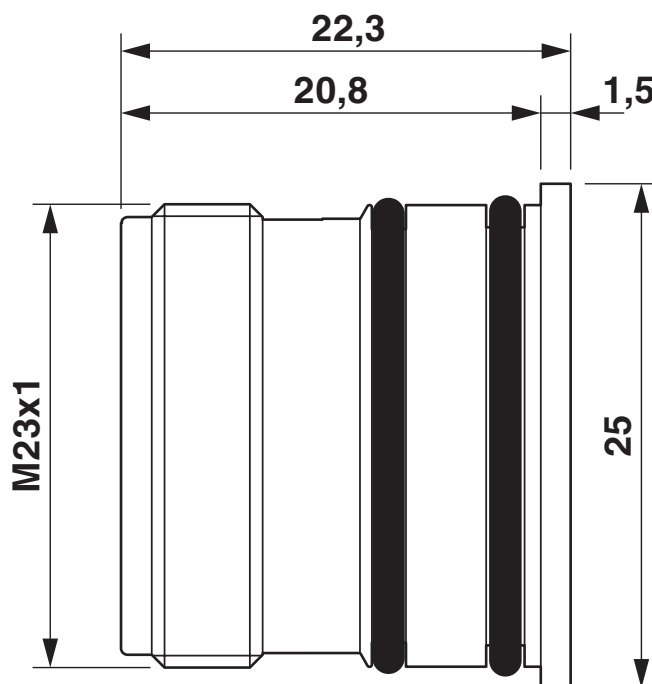
Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



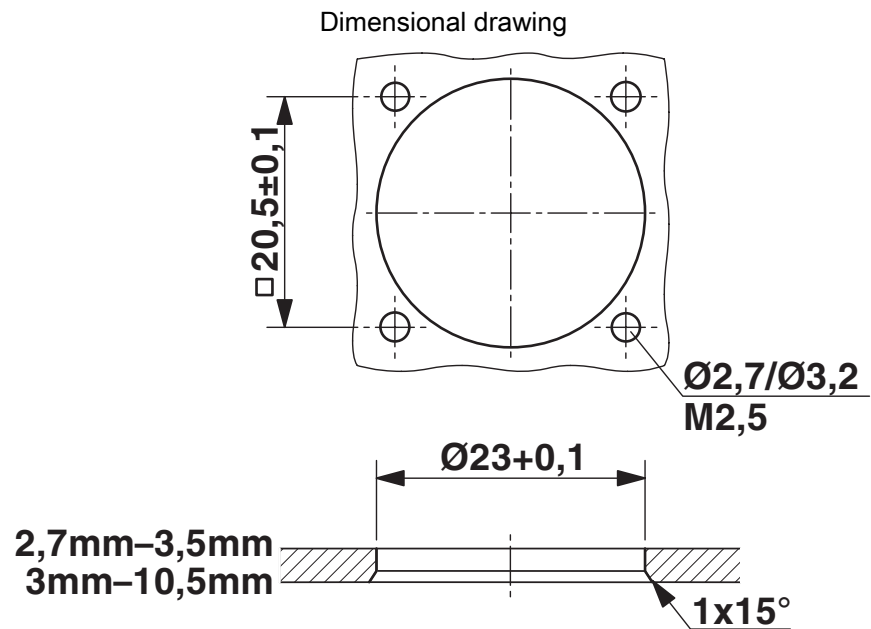
Dimensional drawing

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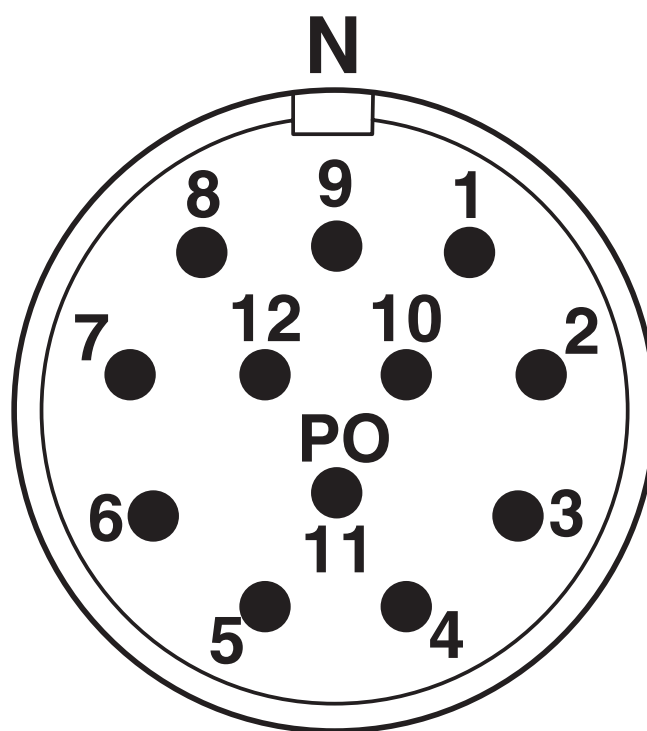
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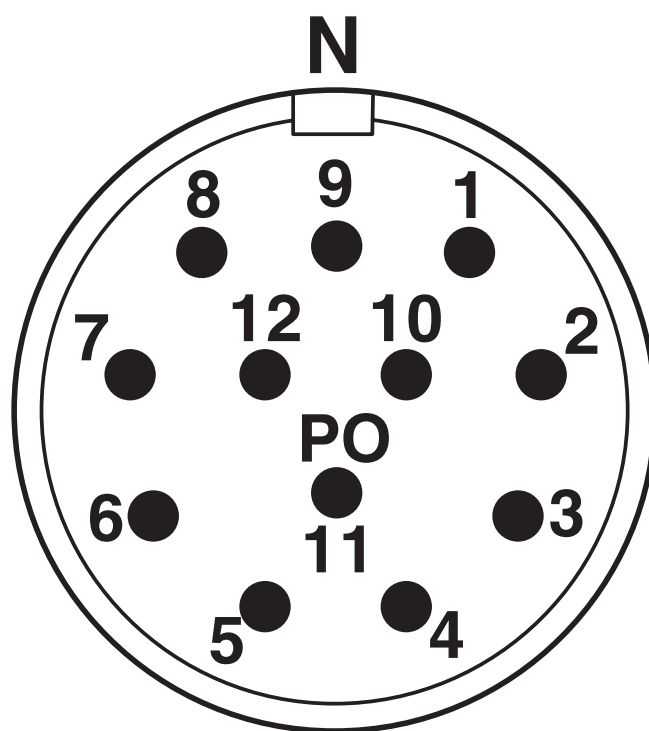
Installation dimensions

Schematic diagram



Connector pin assignment

Schematic diagram



Connector pin assignment

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Classifications

ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

ETIM

ETIM 9.0	EC003569
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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	82eb7a59-52a4-47f3-ac4b-037a5490db10

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