

RC-63S1N12Y31B - Device connector front mounting with knurled nut



1603757

<https://www.phoenixcontact.com/us/products/1603757>

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The figure shows the 9-pos. product version

M23, Device connector front mounting with knurled nut, application: Signal, series: RC, straight, shielded: no, Screw locking mechanism, No. of pos.: 6+3, Direction of rotation: Standard, contact connection type: Socket, Solder cup, Flat gasket, coding: N. This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.

Commercial data

Item number	1603757
Packing unit	40 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFO
GTIN	4046356246965
Weight per piece (including packing)	39.02 g
Weight per piece (excluding packing)	34.329 g
Country of origin	DE

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Technical data

Product properties

Product type	Circular connectors (device side)
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Connector

Insulating body

Coding	N
Material (Insulating body)	PBT
Material (Contact)	CuZn
Material (Contact surface)	Ni/Au
Insertion/withdrawal cycles	50
Connection method	Solder cup
Contact switching type	Socket
Application	Signal
Number of positions	9
Direction of rotation	Standard
Connection profile	6+3
Number (Contact group 1)	3
Contact diameter (Contact group 1)	2 mm
Litz wires Min. cross section (Contact group 1)	0.08 mm ²
Litz wires Max. cross section (Contact group 1)	2.5 mm ²
Rated current Contact (Contact group 1)	20 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
Number (Contact group 2)	6
Contact diameter (Contact group 2)	1 mm
Litz wires Max. cross section (Contact group 2)	1 mm ²
Rated current Contact (Contact group 2)	8 A

Housing

Type	Flange housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Mounting type	Front mounting/square flange (4x Ø 3.2 mm)
Degree of protection (plugged in)	IP67
Seal for the device	Flat gasket

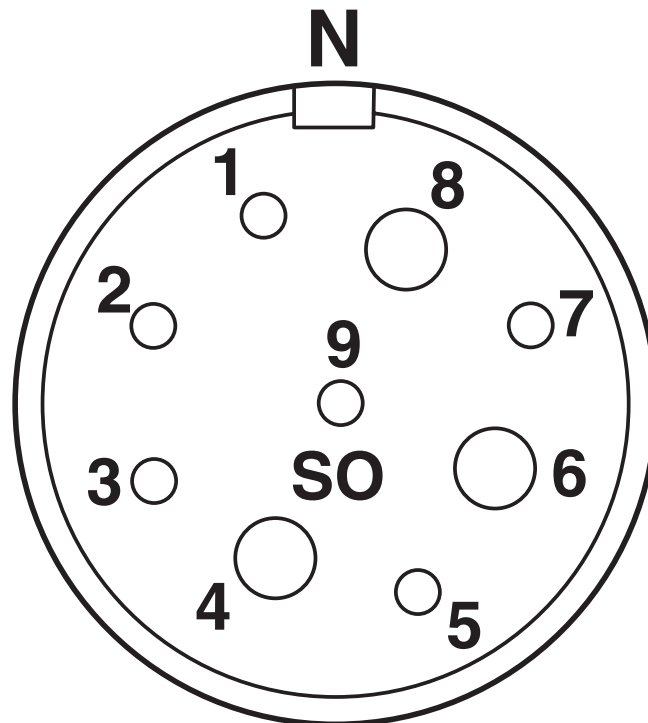
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Drawings

Schematic diagram



Connector pin assignment

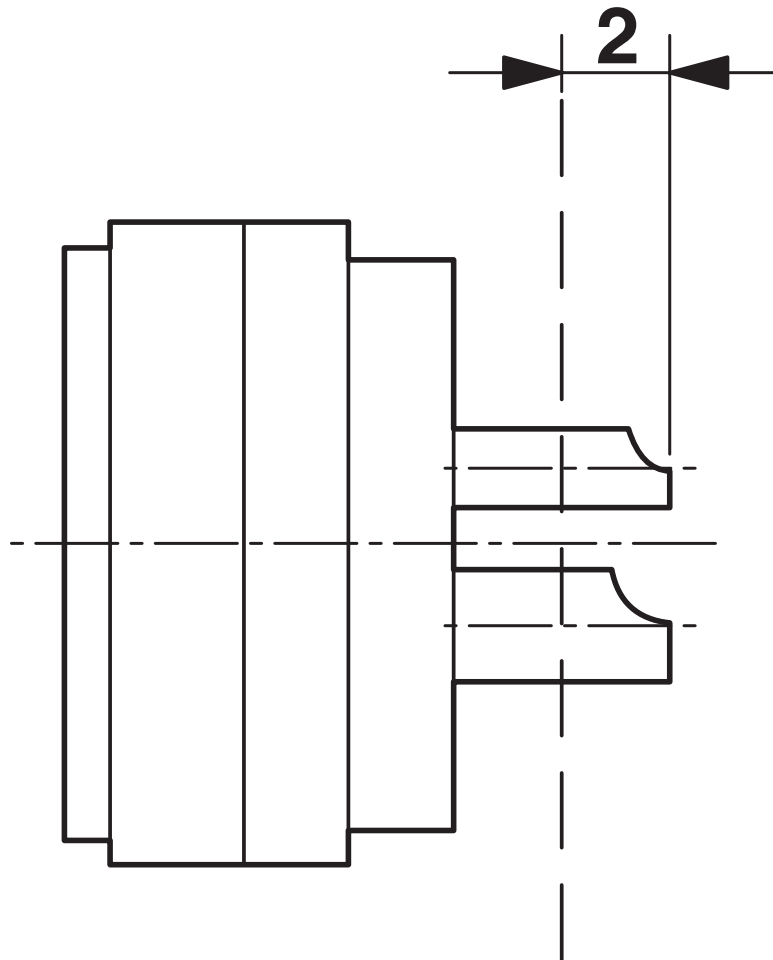
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Schematic diagram



Dimensional drawing

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Classifications

ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

ETIM

ETIM 10.0	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	3bb5e229-99be-4612-8250-98d72f4c593f

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