

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



1603757

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

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M23, Device connector front mounting with knurled nut, 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) |
|--------------|-----------------------------------|

### 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 (Contact group 1)                       | 3                                        |
| Diameter Contact (Contact group 1)                     | 2 mm                                     |
| Litz wire cross-section min. Contact (Contact group 1) | 0.08 mm <sup>2</sup>                     |
| Litz wire cross-section max. Contact (Contact group 1) | 2.5 mm <sup>2</sup>                      |
| 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 (Contact group 2)                       | 6                                        |
| Diameter Contact (Contact group 2)                     | 1 mm                                     |
| Litz wire cross-section min. Contact (Contact group 2) | 0.08 mm <sup>2</sup>                     |
| Litz wire cross-section max. Contact (Contact group 2) | 1 mm <sup>2</sup>                        |
| 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                                |

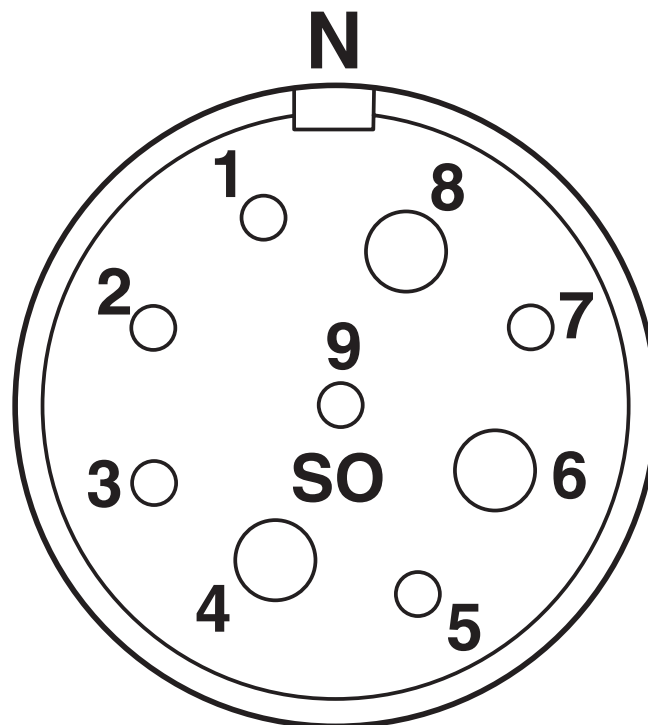
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## Drawings

Schematic diagram



Connector pin assignment

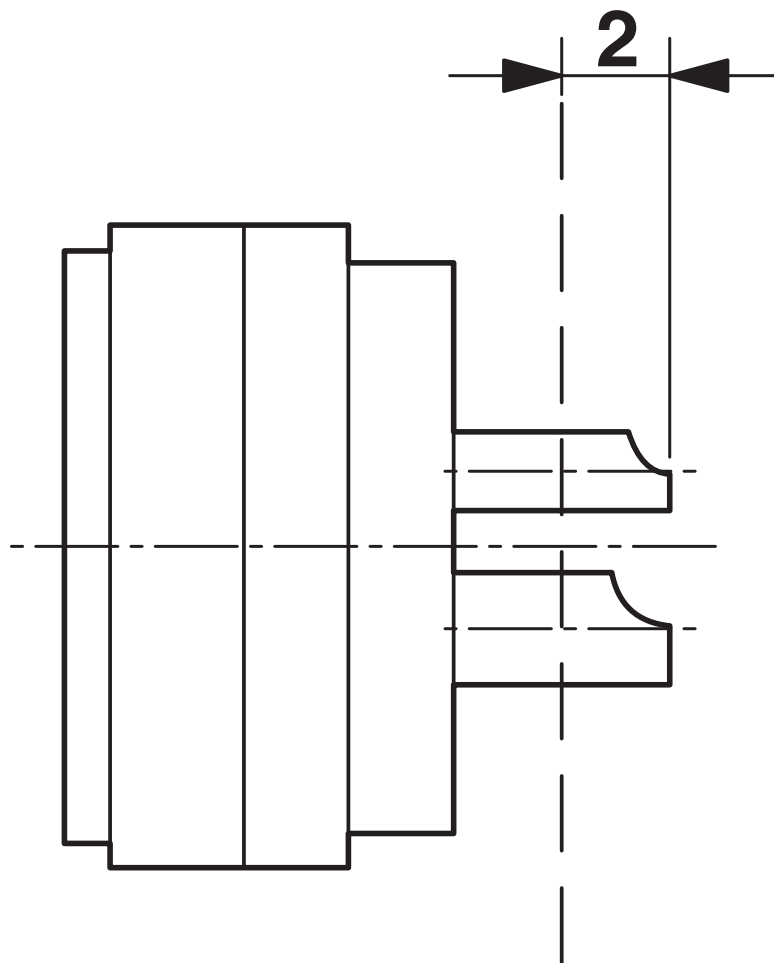
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Schematic diagram



Dimensional drawing

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003569 |
|----------|----------|

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