

# RC-07P1N122200 - Device connector front mounting



1594281

<https://www.phoenixcontact.com/us/products/1594281>

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M23, Device connector front mounting, application: Signal, series: RC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 7, Direction of rotation: Standard, contact connection type: Pin, Solder cup, Flat gasket, flange dimensions: 25 mm x 25 mm, Panel thickness min.: 1 mm, 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. Alternative products: 1339319

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1594281                        |
| Packing unit                         | 40 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFL                         |
| GTIN                                 | 4046356200578                  |
| Weight per piece (including packing) | 41.23 g                        |
| Weight per piece (excluding packing) | 32.75 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                          | Pin                                      |
| Application                                     | Signal                                   |
| Number of positions                             | 7  |
| Direction of rotation                           | Standard                                 |
| Connection profile                              | 7  |
| Number (Contact group 1)                        | 7  |
| Contact diameter (Contact group 1)              | 2 mm                                     |
| Litz wires Min. cross section (Contact group 1) | 0.08 mm <sup>2</sup>                     |
| Litz wires Max. cross section (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<br>74 V DC                       |
| Rated surge voltage                             | 1.5 kV                                   |
| Overvoltage category                            | III                                      |
| Degree of pollution                             | 3  |

#### Housing

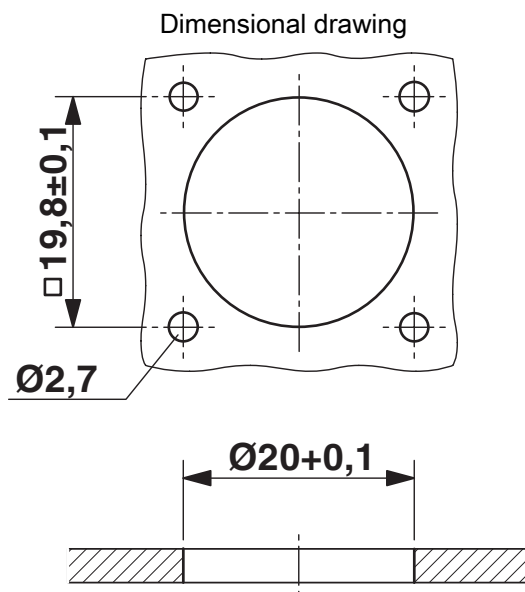
|                                   |  |
|-----------------------------------|--|
| Type                              | Flange housing                             |
| Thread type                       | M23  |
| Design                            | straight                                   |
| Type of locking                   | Screw locking mechanism                    |
| Pg screw connection               | none                                       |
| Mounting type                     | Front mounting/square flange (4x Ø 2.7 mm) |
| Flange dimensions                 | 25 mm x 25 mm                              |
| Material (Housing)                | GD-Zn                                      |
| Material (Housing surface)        | Ni   |
| Material (Rotating parts)         | CuZn                                       |
| Degree of protection (plugged in) | IP67                                       |
| Seal for the device               | Flat gasket                                |

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## Drawings



## Installation dimensions

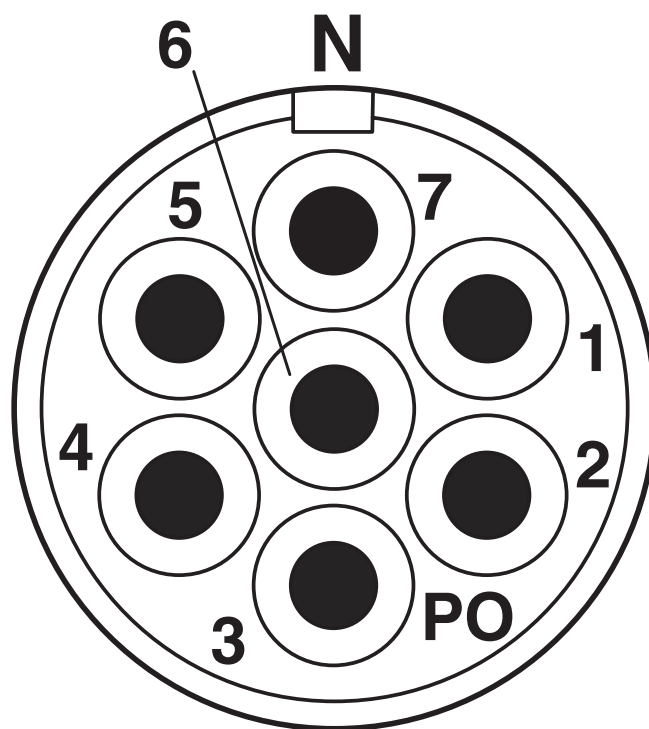
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Schematic diagram



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 |
|-----------|----------|

### 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                                | f7a075bc-c604-48cf-aa1a-2f38236b3299 |

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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)