

# RC-12P1N124100 - Device connector rear mounting



1596916

<https://www.phoenixcontact.com/us/products/1596916>

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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, Solder cup, Flat gasket, Panel thickness min.: 2.7 mm, Panel thickness max.: 3.5 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1240757

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1596916       |
| Packing unit                         | 40 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABRAFR        |
| GTIN                                 | 4046356213332 |
| Weight per piece (including packing) | 34.53 g       |
| Weight per piece (excluding packing) | 29.53 g       |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|              |                                   |
|--------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Thread type  | M23                               |

### Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

### Connection data

#### Conductor connection

|                   |                   |
|-------------------|-------------------|
| Connection method | Solder connection |
|-------------------|-------------------|

### Connector

#### Insulating body

|                                                        |                                         |
|--------------------------------------------------------|-----------------------------------------|
| Coding                                                 | N                                       |
| Material (Insulating body)                             | PBT                                     |
| Material (Contact)                                     | CuZn                                    |
| Material (Contact surface)                             | Ni/Au                                   |
| Insertion/withdrawal cycles                            | 100                                     |
| Connection method                                      | Solder cup                              |
| 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                                    |
| Litz wire cross-section min. Contact (Contact group 1) | 0.08 mm <sup>2</sup>                    |
| Litz wire cross-section max. Contact (Contact group 1) | 1 mm <sup>2</sup>                       |
| Rated current Contact (Contact group 1)                | 8 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                    |

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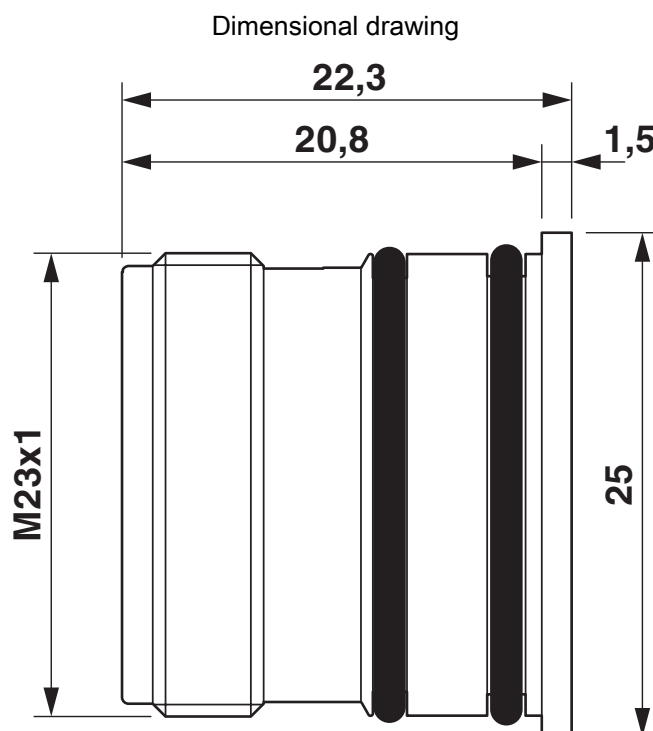
|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Mounting type                     | Rear mounting/square flange (4x M3) |
| Material (Housing)                | Metal                               |
| Degree of protection (plugged in) | IP67                                |
| Seal for the device               | Flat gasket                         |

## Environmental and real-life conditions

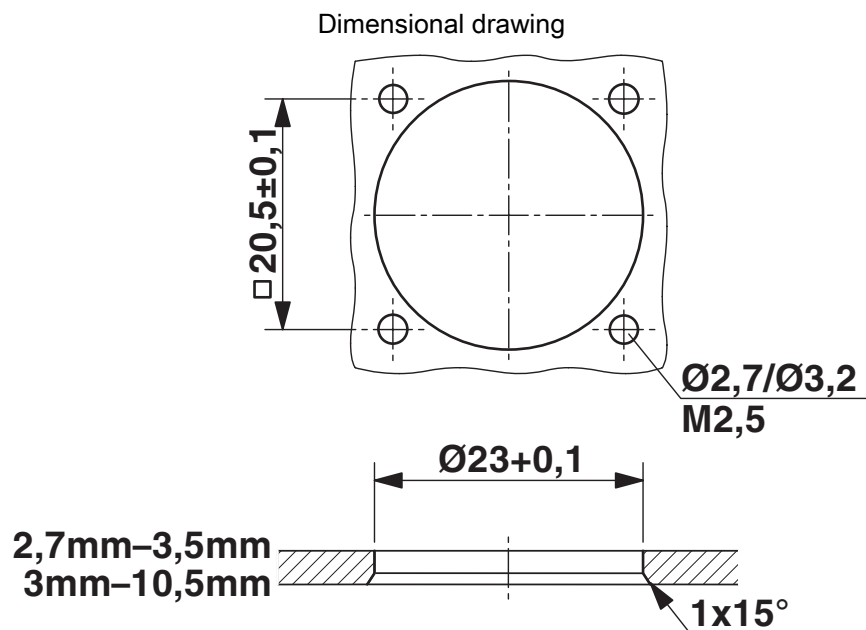
### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

## Drawings



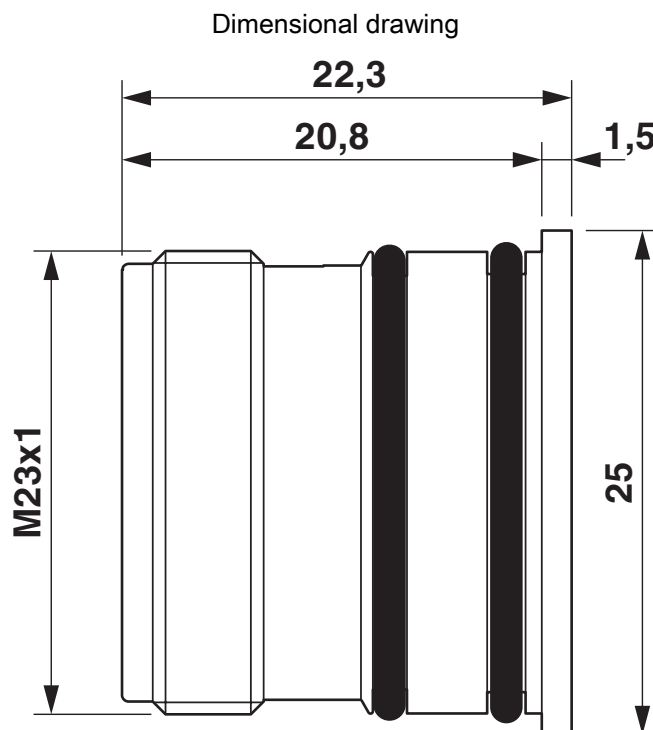
Dimensional drawing



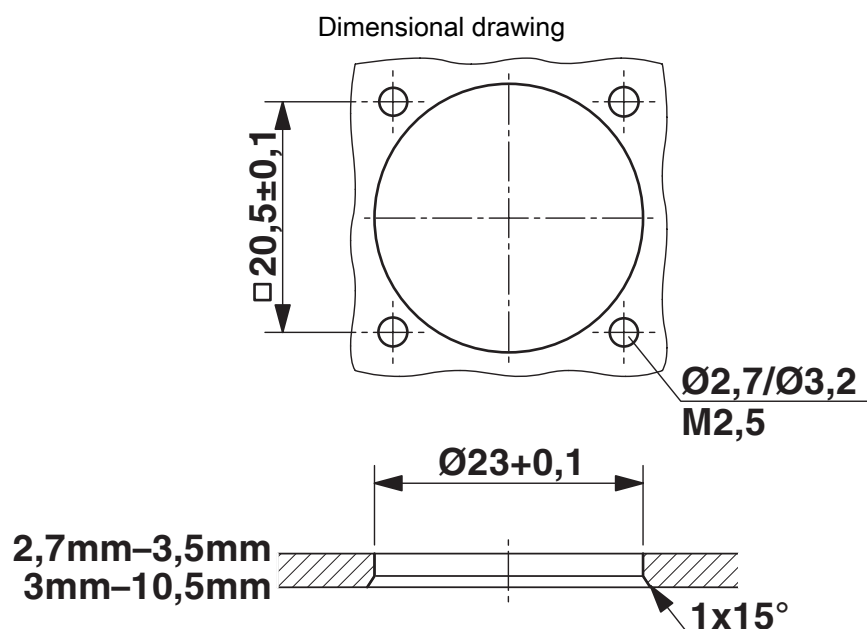
Installation dimensions

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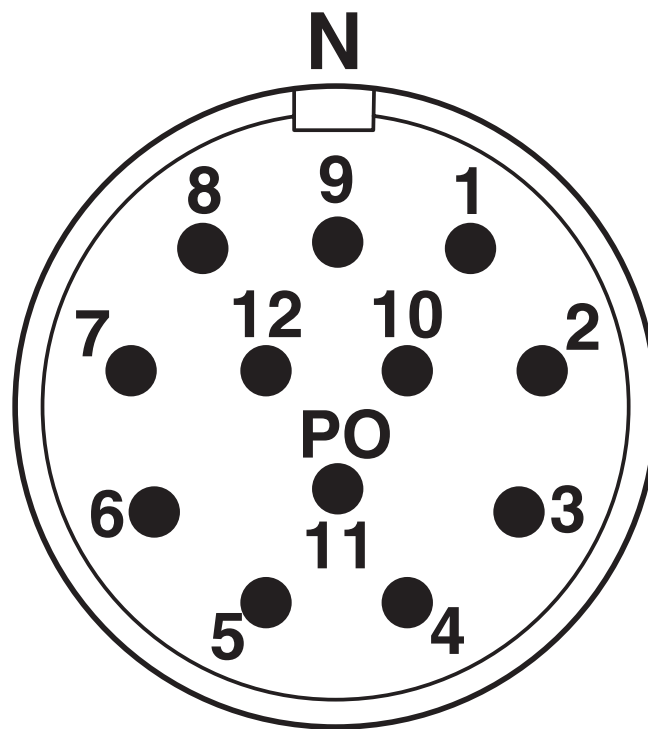


Dimensional drawing



Installation dimensions

Schematic diagram

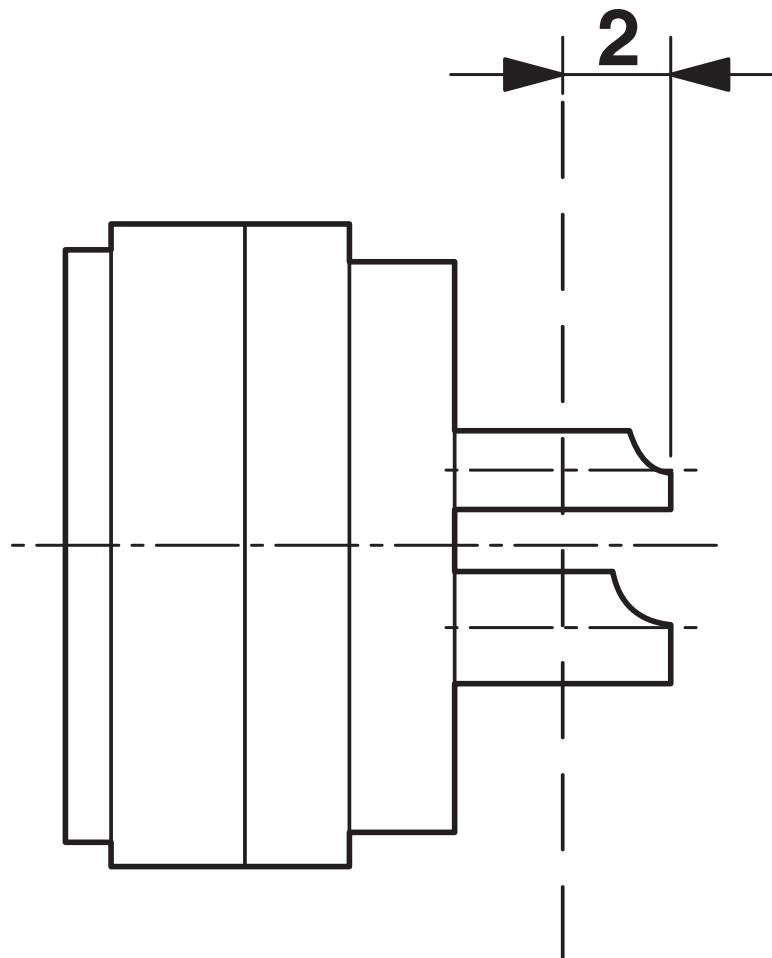


Connector pin assignment

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Schematic diagram



Dimensional drawing

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | 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                                | e3209cb4-da6c-481c-a3b9-fd9f5e54a256 |

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