

1601651  
<https://www.phoenixcontact.com/us/products/1601651>

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M23, Device connector rear mounting, series: RC, straight, Screw locking mechanism, No. of pos.: 17, Direction of rotation: Standard, contact connection type: Pin, Solder-in 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                          | 1601651                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 20 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAFR                         |
| GTIN                                 | 4046356235891                  |
| Weight per piece (including packing) | 40.618 g                       |
| Weight per piece (excluding packing) | 36.628 g                       |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

# RC-17P1NC241M2 - Device connector rear mounting



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## Technical data

### Product properties

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

### Material specifications

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

### Connector

#### Insulating body

|   |   |
|---|---|
| Coding                                  | N                                       |
| Material (Insulating body)              | PBT                                     |
| Material (Contact)                      | CuZn                                    |
| Material (Contact surface)              | Ni/Au                                   |
| Insertion/withdrawal cycles             | 50                                      |
| Connection method                       | Solder-in connection                    |
| Contact switching type                  | Pin                                     |
| Application                             | Signal                                  |
| Number of positions                     | 17                                      |
| Direction of rotation                   | Standard                                |
| Connection profile                      | 17                                      |
| Number Contact (Contact group 1)        | 17                                      |
| 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

#### Ambient conditions

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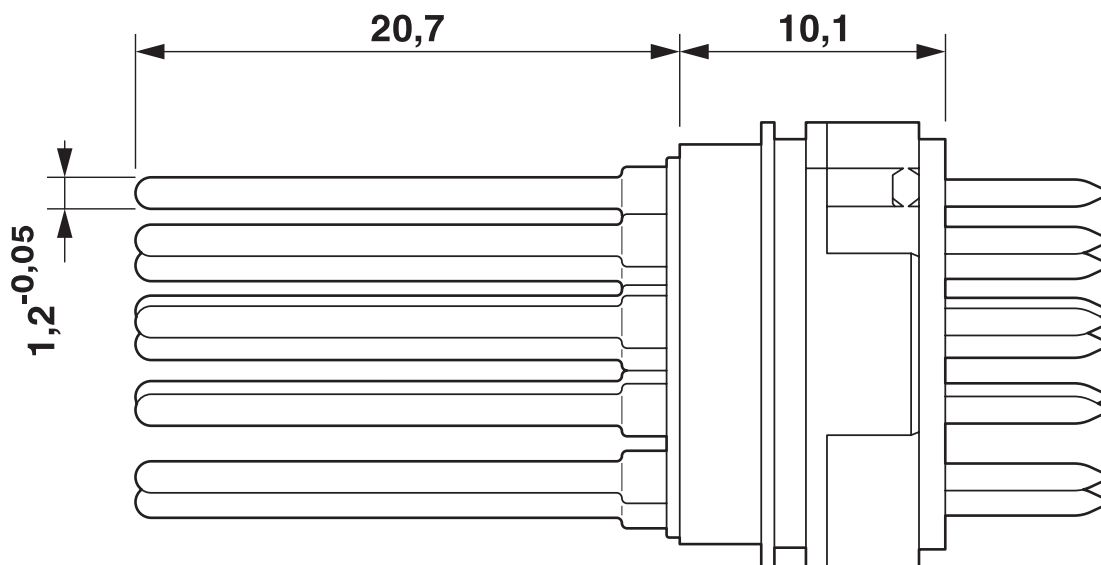
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|                      |      |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

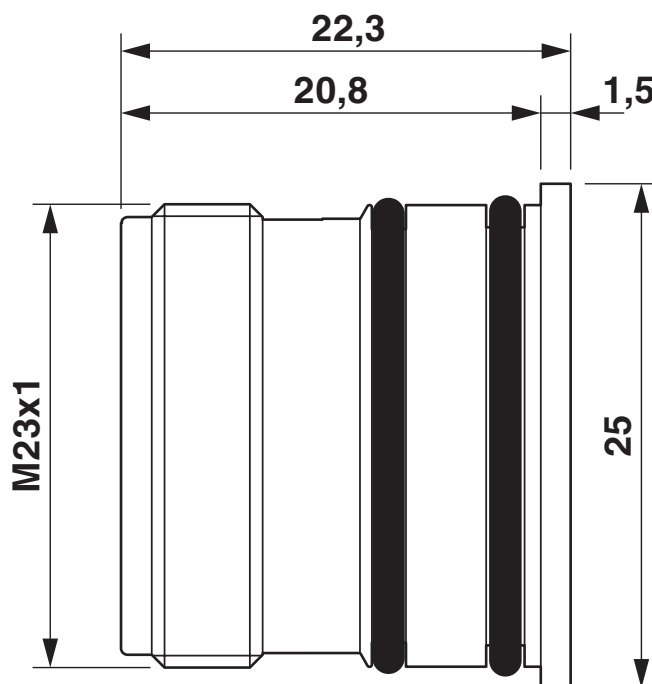
## Drawings

Dimensional drawing



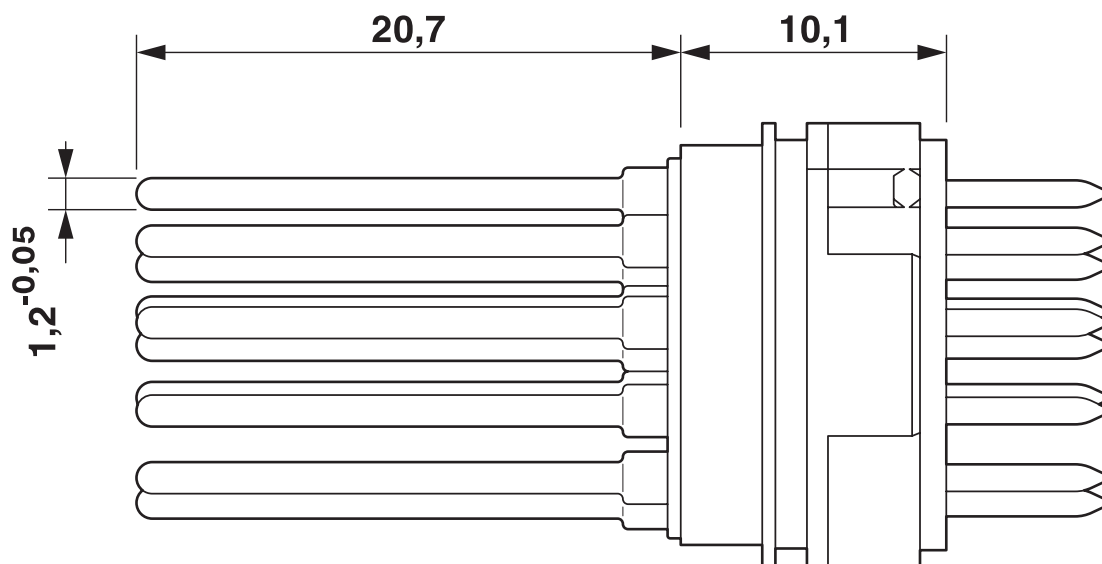
Dimensional drawing

Dimensional drawing

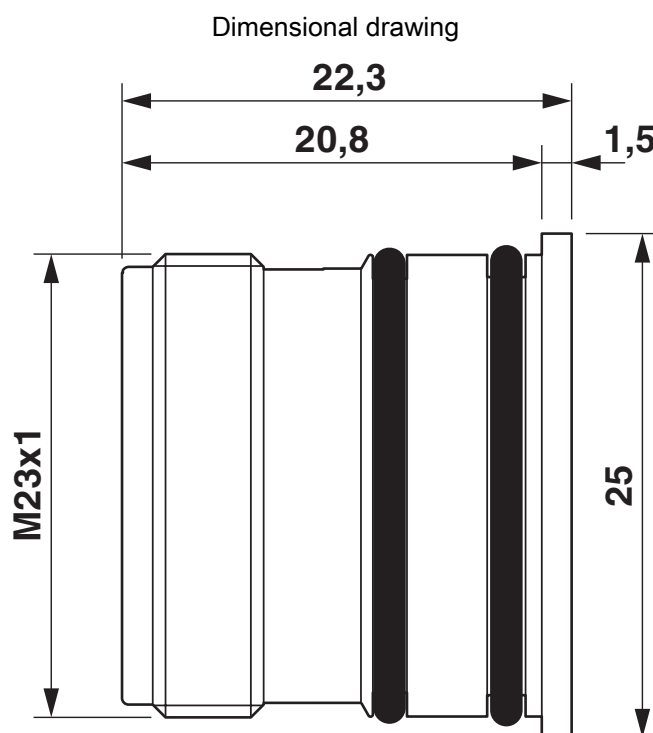


Dimensional drawing

Dimensional drawing



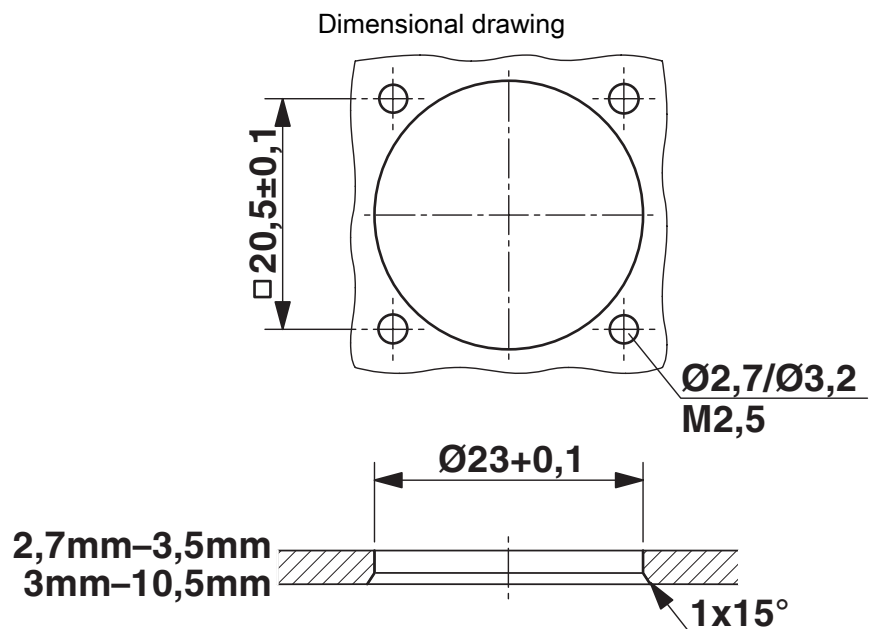
Dimensional drawing



Dimensional drawing

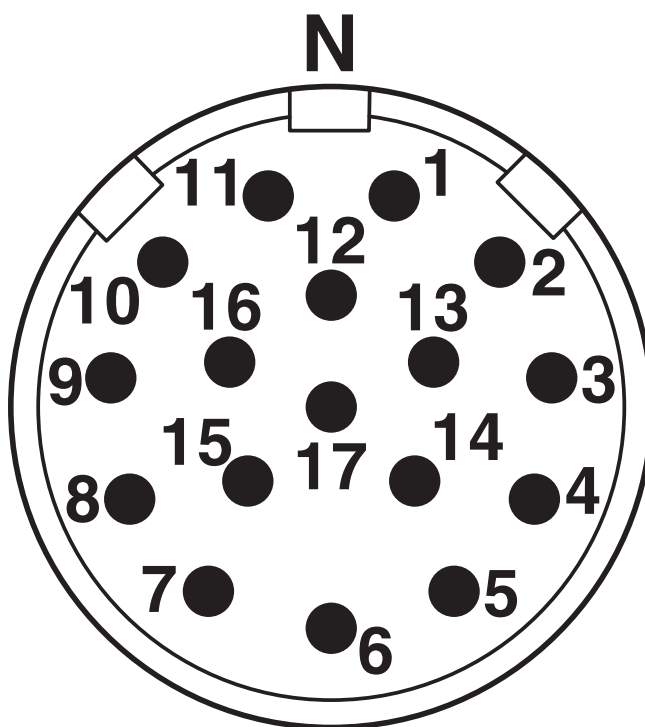
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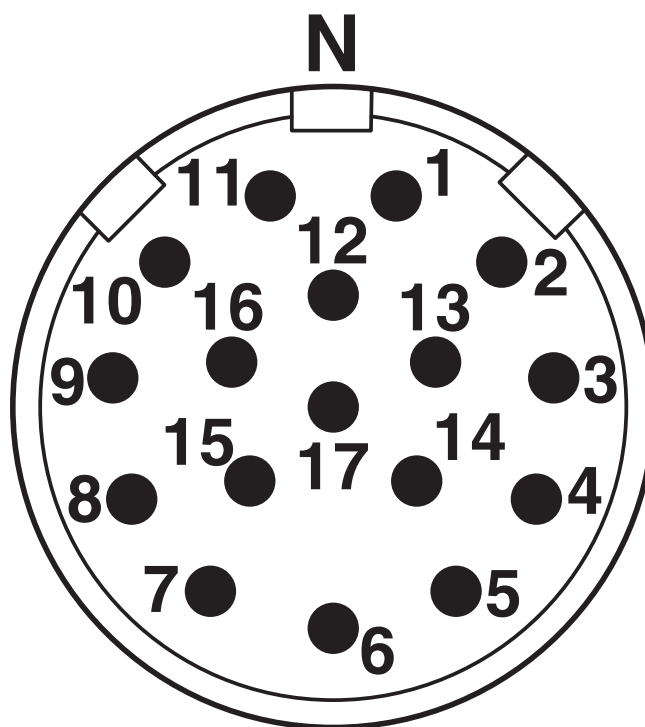
Installation dimensions

Schematic diagram



Connector pin assignment

Schematic diagram



Connector pin assignment

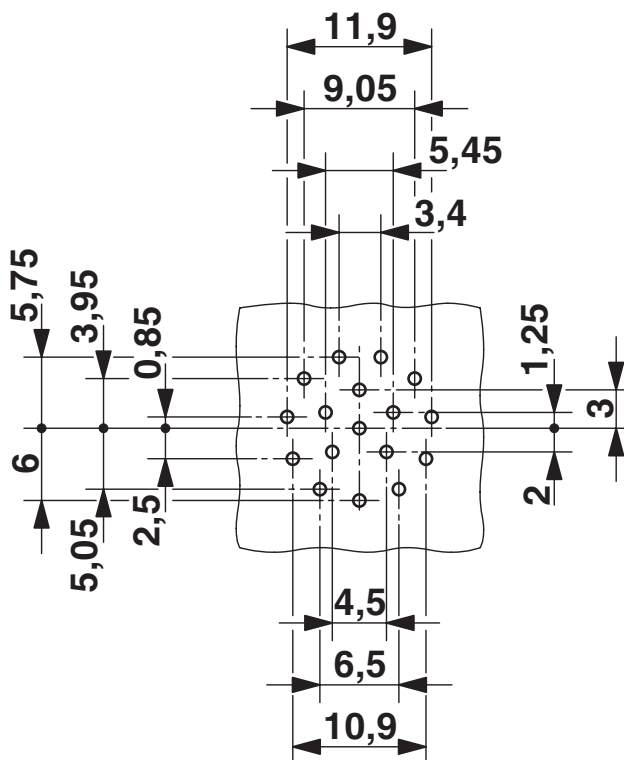


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Drilling plan/solder pad geometry



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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: n/a)                       |
| SCIP                                | 7ee753b6-3860-4e54-b674-55c727b9b76c |

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