

# MINI MCR-2-TB - Feed-through terminal block



2902068

<https://www.phoenixcontact.com/us/products/2902068>

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Feed-through terminal block with plug-in connection technology for the transmission of signals already electrically isolated. Screw connection technology

## Product description

Feed-through terminal block with plug-in connection technology for the transmission of signals already electrically isolated. The feed-through terminal block supports NFC communication.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2902068       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C404          |
| Product key                          | DK112Z        |
| GTIN                                 | 4046356649957 |
| Weight per piece (including packing) | 91.8 g        |
| Weight per piece (excluding packing) | 82 g          |
| Customs tariff number                | 85389099      |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Product properties

|                |                             |
|----------------|-----------------------------|
| Product type   | Feed-through terminal block |
| Product family | MINI Analog Pro             |

### Electrical properties

|                           |             |
|---------------------------|-------------|
| Current carrying capacity | 4 A (Total) |
|---------------------------|-------------|

#### Electrical isolation

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

#### Supply

|                        |            |
|------------------------|------------|
| Nominal supply voltage | 24 V AC/DC |
|------------------------|------------|

### Input data

#### Signal: Voltage/current

|                           |                          |
|---------------------------|--------------------------|
| Number of inputs          | 4                        |
| Max. voltage input signal | 30 V AC/DC (per channel) |
| Max. current input signal | 1 A (per channel)        |

### Connection data

|                                  |  |
|----------------------------------|--|
| Connection method                | Screw connection                             |
| Stripping length                 | 10 mm  |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 12                                    |
| Tightening torque                | 0.5 Nm ... 0.6 Nm                            |

### Ex data

|                       |        |
|-----------------------|--------|
| Ex installation (EPL) | Gc     |
|                       | Div. 2 |

### Dimensions

|        |           |
|--------|-----------|
| Width  | 6.2 mm    |
| Height | 109.81 mm |
| Depth  | 119.2 mm  |

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## Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| Housing material                                       | PBT             |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 2     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 2     |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 2     |

## Environmental and real-life conditions

### Ambient conditions

|   |                               |
|---|-------------------------------|
| Degree of protection                    | IP20 (not assessed by UL)     |
| Ambient temperature (operation)         | -40 °C ... 70 °C              |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C              |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing) |

### Altitude range (≤ 2000 m)

|                                 |  |
|---------------------------------|--|
| Altitude                        | ≤ 2000 m (The technical data refers to altitudes ≤2000 m above mean sea level. For altitudes >2000 m above mean sea level, refer to the data sheet.) |
| Ambient temperature (operation) | -40 °C ... 70 °C   |
| Rated insulation voltage        | 50 V AC/DC   |

### Altitude range (≤ 3000 m)

|                                 |                     |
|---------------------------------|---------------------|
| Height range                    | > 2000 m ... 3000 m |
| Ambient temperature (operation) | -40 °C ... 63 °C    |
| Rated insulation voltage        | 40 V AC/DC          |

### Altitude range (≤ 4000 m)

|                                 |                     |
|---------------------------------|---------------------|
| Height range                    | > 3000 m ... 4000 m |
| Ambient temperature (operation) | -40 °C ... 56 °C    |
| Rated insulation voltage        | 30 V AC/DC          |

### Altitude range (≤ 5000 m)

|                                 |                     |
|---------------------------------|---------------------|
| Height range                    | > 4000 m ... 5000 m |
| Ambient temperature (operation) | -40 °C ... 49 °C    |
| Rated insulation voltage        | 30 V AC/DC          |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### ATEX

|                |                       |
|----------------|-----------------------|
| Identification | ⊕ II 3 G Ex ec IIC Gc |
| Certificate    | PxCIF16ATEX2901993U   |

### IECEX

|                |              |
|----------------|--------------|
| Identification | Ex ec IIC Gc |
|----------------|--------------|

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|             |                    |
|-------------|--------------------|
| Certificate | IECEX BVS 22.0005U |
|-------------|--------------------|

## CCC / China-Ex

|                |              |
|----------------|--------------|
| Identification | Ex ec IIC Gc |
|----------------|--------------|

## UL, USA/Canada

|                |                                       |
|----------------|---------------------------------------|
| Identification | UL 508 Listed                         |
|                | Class I, Div. 2, Groups A, B, C, D T6 |
|                | Class I, Zone 2, Group IIC T6         |

## Shipbuilding approval

|             |                   |
|-------------|-------------------|
| Certificate | DNV GL TAA00002UA |
|-------------|-------------------|

## Shipbuilding data

|             |   |
|-------------|---|
| Temperature | B   |
| Humidity    | B   |
| Vibration   | A   |
| EMC         | A   |
| Enclosure   | Required protection according to the Rules shall be provided upon installation on board |

## Standards and regulations

### GB Standard

|                       |             |
|-----------------------|-------------|
| Standards/regulations | GB/T 3836.1 |
|                       | GB/T 3836.3 |

## Mounting

|                   |                   |
|-------------------|-------------------|
| Mounting type     | NS 35/7,5         |
|                   | NS 35/15          |
|                   | NS 35/15-2,3      |
|                   | DIN rail mounting |
| Mounting position | any               |

# MINI MCR-2-TB - Feed-through terminal block

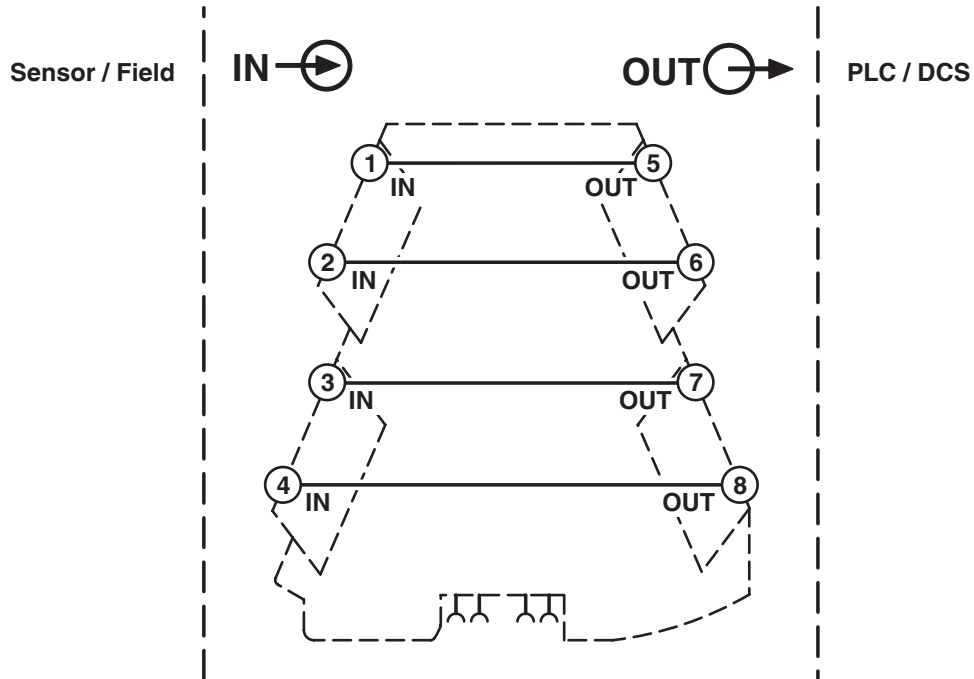
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## Drawings

Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2902068>



**UL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705



**CCC**

Approval ID: 2022122313115722

**DNV**

Approval ID: TAA00002UA



**cUL Listed**

Approval ID: E196811



**UL Listed**

Approval ID: E196811



**IECEx**

Approval ID: IECEx BVS 22.0005U

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371392 |
| ECLASS-15.0 | 27371392 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002886 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121100 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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