

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 |

Insulation characteristics: GB Standard

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

Electrical properties

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

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 ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| 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 |

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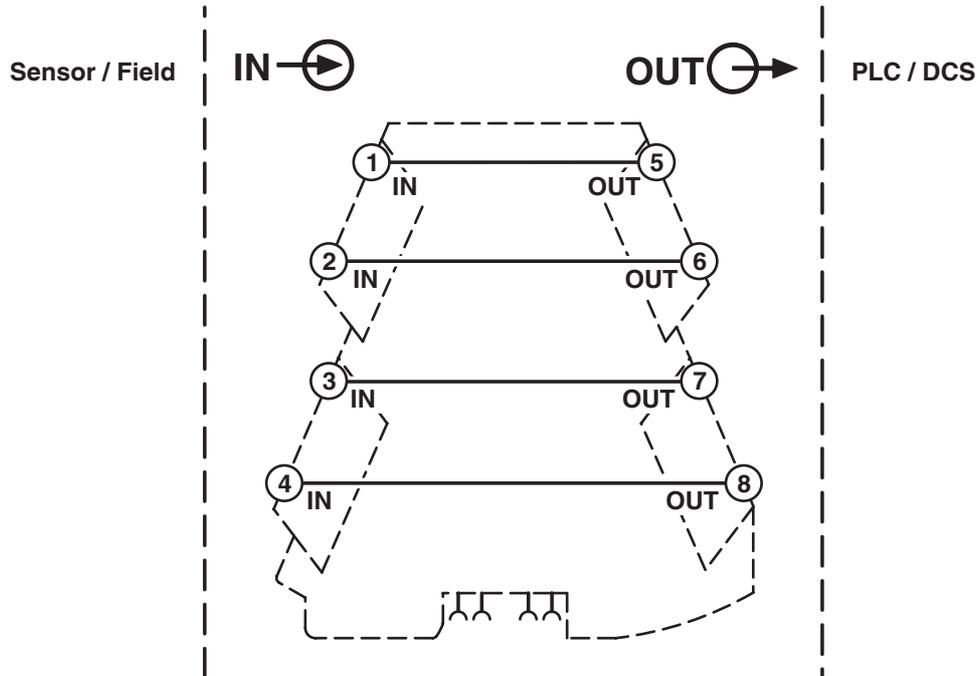
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Drawings

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 9.0 | EC002498 |
|----------|----------|

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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