# MACX MCR-PTB - Power and error message module

2865625

https://www.phoenixcontact.com/us/products/2865625

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Power and fault monitoring module with screw connection, including corresponding ME 17,5 TBUS 1,5/ 5-ST-3,81 GY DIN rail connector

## Your advantages

- Simple or redundant supply, decoupled from diode, protected against polarity reversal
- Installation in zone 2 permitted
- Replaceable fuse
- Error message in the event of power supply failure or fuse fault
- Bus cable error message for MACX MCR-...(2)NAM... devices connected via DIN rail connectors
- Relay output (changeover contact) and blinking LED for error messages
- Supply current up to 3.75 A

## Commercial data

| | |
|---|---|
| Item number | 2865625 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C402 |
| Product key | DK111Z |
| GTIN | 4046356324618 |
| Weight per piece (including packing) | 121.6 g |
| Weight per piece (excluding packing) | 150.8 g |
| Customs tariff number | 85437090 |
| Country of origin | DE |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Feed-in module |
| Product family | MACX Analog |

### Electrical properties

| | |
|---|---|
| Fuse | 5 A (replaceable), slow-blow 250 V AC |
| Reverse polarity protection | yes |

Electrical isolation Input/switching output

| | |
|---|---|
| Rated insulation voltage | 50 V AC/DC |
| Overvoltage category | II |
| Pollution degree | 2 |

Supply

| | |
|---|---|
| Nominal supply voltage | 24 V DC |
| Nominal supply voltage range | 19.2 V DC ... 30 V DC (24 V DC, -20 % ... +25 %) |

### Output data

Switching: Relay

| | |
|---|---|
| Contact switching type | 1 changeover contact |
| Contact material | Gold (Au) |
| Maximum switching voltage | 50 V AC (2 A) |
| | 30 V DC (2 A) |
| | 50 V DC (0.22 A) |

Signal: Supply via DIN rail bus connector

| | |
|---|---|
| Max. current output signal | 3.75 A |
| Output voltage | Nominal supply voltage - max. 0.8 V at 3.75 A |

### Connection data

| | |
|---|---|
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Screw thread | M3 |
| Conductor cross-section rigid | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 14 |
| Tightening torque | 0.5 Nm ... 0.6 Nm |

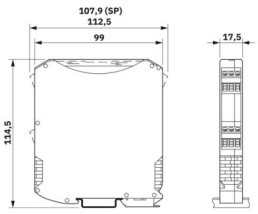
### Ex data

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

### Signaling

| | |
|---|---|
| Status display | 1 x red LED (error) |
| | 2x green LEDs (PWR1 and PWR2) |

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 17.5 mm |
| Height | 105.8 mm |
| Depth | 113.7 mm |
| Depth NS 35/7,5 | 114.5 mm (Snapped onto DIN rail NS 35/7,5 in accordance with EN 60715) |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 (Housing) | V0 (Housing) |
| Housing material | PA 6.6 |

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 60 °C (Any mounting position) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °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 ... 60 °C |
| Rated insulation voltage | 50 V AC/DC |

### Altitude range (≤ 3000 m)

| | |
|---|---|
| Height range | > 2000 m ... 3000 m |
| Ambient temperature (operation) | -40 °C ... 54 °C |
| Rated insulation voltage | 40 V AC/DC |

### Altitude range (≤ 4000 m)

| | |
|---|---|
| Height range | > 3000 m ... 4000 m |
| Ambient temperature (operation) | -40 °C ... 48 °C |
| Rated insulation voltage | 30 V AC/DC |

### Altitude range (≤ 5000 m)

| | |
|---|---|
| Height range | > 4000 m ... 5000 m |
| Ambient temperature (operation) | -40 °C ... 42 °C |
| Rated insulation voltage | 30 V AC/DC |

## Approvals

CE

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

ATEX

| | |
|---|---|
| Identification | Ⓔx II 3 G Ex ec nC IIC T4 Gc |
| Certificate | PxCIF08ATEX2865625X |

IECEx

| | |
|---|---|
| Identification | Ex ec nC IIC T4 Gc |
| Certificate | IECEx IBE 08.0004X |

CCC / China-Ex

| | |
|---|---|
| Identification | Ex ec nC IIC T4 Gc |
| Certificate | 2021122303114198 |

UL, USA/Canada

| | |
|---|---|
| Identification | UL 61010 Listed |
| | Class I, Div. 2, Groups A, B, C, D T5 |
| | Class I, Zone 2, Group IIC T5 |

Shipbuilding approval

| | |
|---|---|
| Certificate | DNV GL TAA0000AG |

Shipbuilding data

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

## EMC data

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise immunity | EN 61000-6-2 |
| Note | When being exposed to interference, there may be minimal deviations. |

Noise emission

| | |
|---|---|
| Standards/regulations | EN 61000-6-4 |

Electromagnetic HF field

| | |
|---|---|
| Designation | Electromagnetic RF field |
| Standards/regulations | EN 61000-4-3 |

| | |
|---|---|
| Evaluation criterion | A |

Fast transients (burst)

| | |
|---|---|
| Designation | Fast transients (burst) |
| Standards/regulations | EN 61000-4-4 |
| Evaluation criterion | A |

Conducted interference

| | |
|---|---|
| Designation | Conducted interferences |
| Standards/regulations | EN 61000-4-6 |
| Evaluation criterion | A |

## Standards and regulations

GB Standard

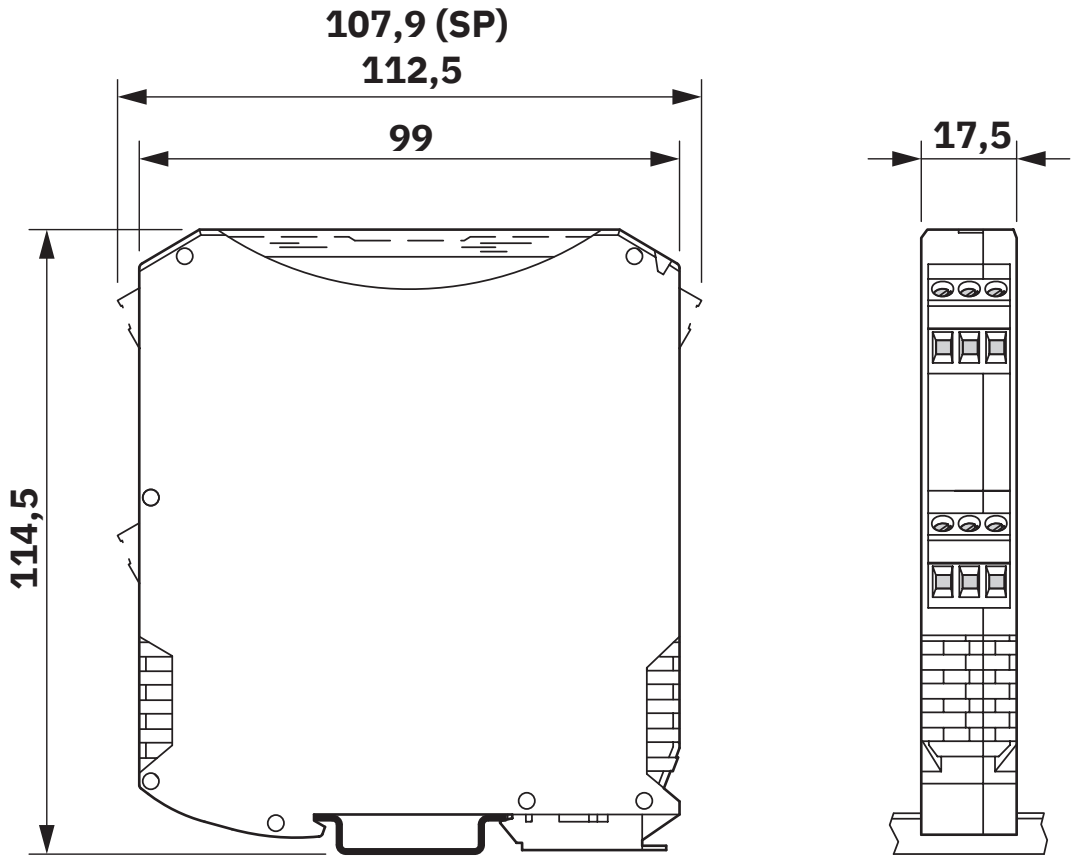
| | |
|---|---|
| Standards/regulations | GB/T 3836.1 |
| | GB/T 3836.3 |
| | GB/T 3836.8 |

## Mounting

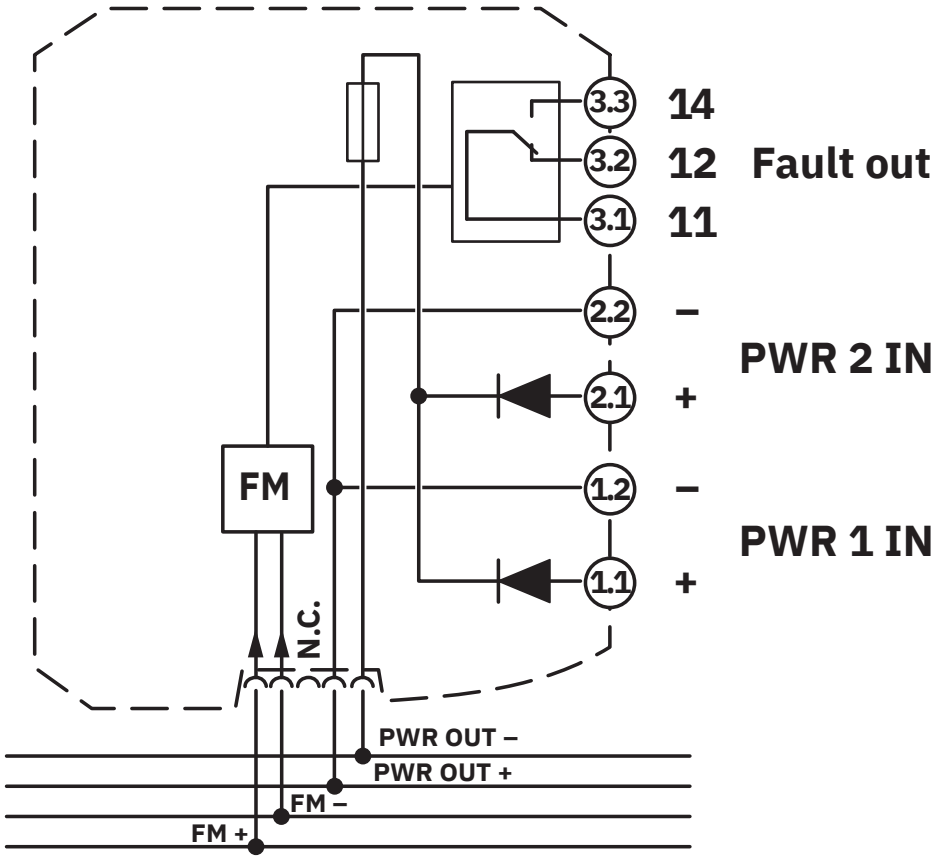
| | |
|---|---|
| Mounting type | DIN rail mounting |

## Drawings

Dimensional drawing



Block diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2865625

**UL Listed**
Approval ID: E330267

**cUL Listed**
Approval ID: E330267

**DNV**
Approval ID: TAA00000AG

**cULus Listed**
Approval ID: E330267

**DNV**
Approval ID: TAA000020C

**IECEx**
Approval ID: IECEx IBE 08.0004X

**cUL Listed**
Approval ID: E199827

**UL Listed**
Approval ID: FILE E 199827

**CCC**
Approval ID: 2021122303114198

**cULus Listed**
Approval ID: E199827

**CCC**
Approval ID: 2021122303114198

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27242610 |
| ECLASS-15.0 | 27242610 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001600 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 32151600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

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 | f305eb90-05dd-4186-bbc9-93b2f26e7a9b |

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