

# MACX MCR-PTB - Power and error message module



2865625

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

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Power and fault signaling 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) | 162.8 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

#### Electrical isolation

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

#### Electrical isolation Input/switching output

|                          |            |
|--------------------------|------------|
| Rated insulation voltage | 50 V AC/DC |
|--------------------------|------------|

#### Supply

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

### Input data

#### Signal

|                                   |  |
|-----------------------------------|--|
| Voltage input signal              | 19.2 V DC ... 30 V DC (24 V DC, -20 % ... +25 %) |
| Fuse                              | 5 A (replaceable), slow-blow 250 V AC            |
| Polarization and surge protection | Yes  |

### 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

|                            |                                     |
|----------------------------|-------------------------------------|
| Max. current output signal | 3.75 A                              |
| Output voltage             | Input 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 14                                   |
| Tightening torque                | 0.5 Nm ... 0.6 Nm                           |

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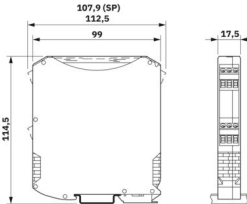
## Ex data

|                       |        |
|-----------------------|--------|
| 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              | 112.5 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          |

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## 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 | Ⓜ 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. |

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## 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 |
|---------------|-------------------|

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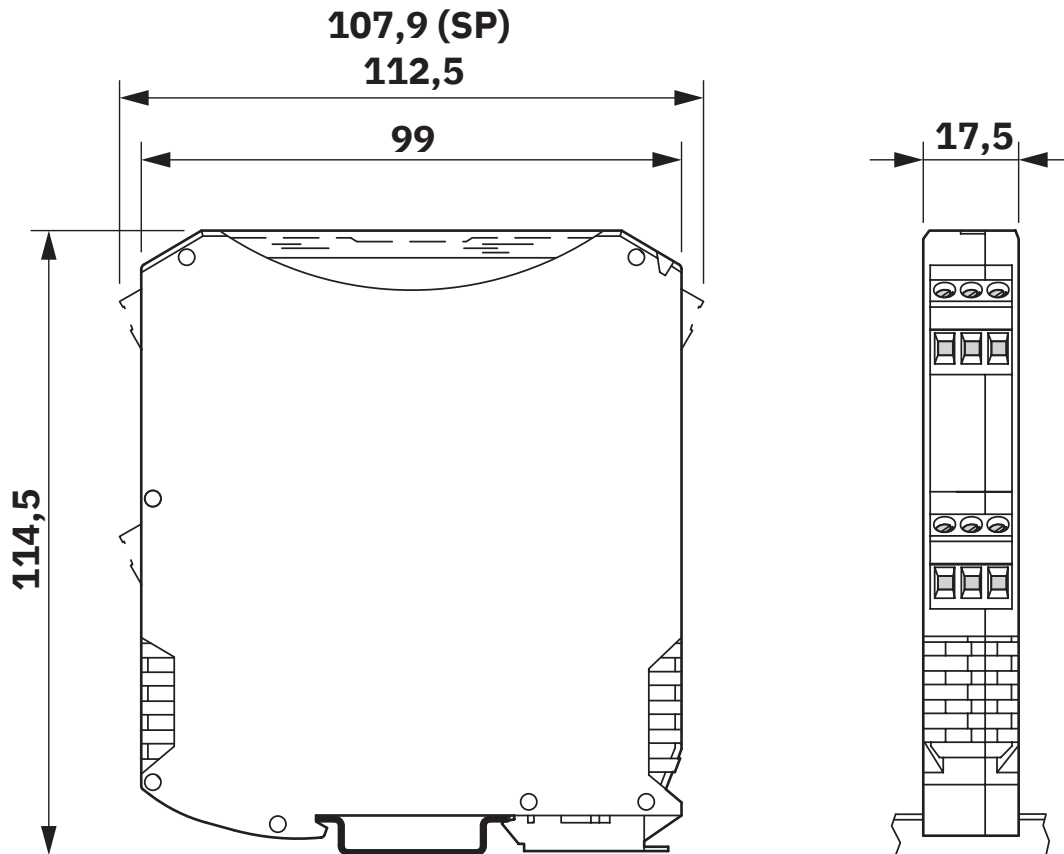


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## Drawings

Dimensional drawing

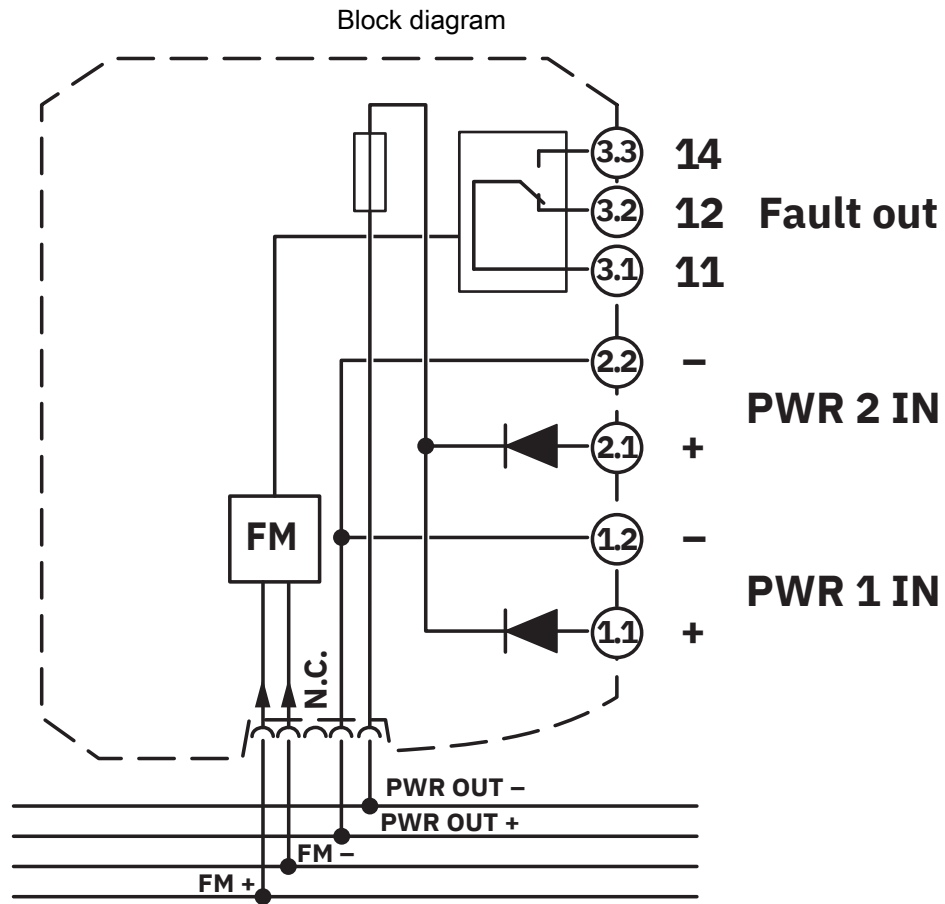


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## Approvals

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 **UL Listed**  
Approval ID: E330267


 **cUL Listed**  
Approval ID: E330267

**DNV**  
Approval ID: TAA00000AG

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

 **cUL Listed**  
Approval ID: E199827

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

 **CCC**  
Approval ID: 2021122303114198

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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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