

# MINI MCR-SL-PTB - Power terminal block



2864134

<https://www.phoenixcontact.com/us/products/2864134>

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MCR power terminal block for supplying several MINI Analog modules via the DIN rail connector, with screw connection, maximum current consumption of up to 2 A

## Product description

The 6.2 mm wide MINI MCR-SL-PTB... power terminal is used for supplying the DIN rail connector with supply voltage.

Two separate voltage inputs allow a redundant voltage supply of 24 V DC and a maximum current of 2 A.

A green LED on the front panel lights up when there is supply voltage on the DIN rail connector. Red LEDs indicate supply voltages connected with reversed polarity. When the supply voltage has been connected correctly, the red LED extinguishes.

## Your advantages

- For supplying the supply voltage via the foot element (DIN rail connector) where DC voltages of up to 30 V are already available
- Status and error indication via diagnostic LEDs
- For up to 2 A
- For up to 80 MINI analog modules
- Redundant supply decoupled from diode possible

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2864134             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C403                |
| Product key                          | CK12ZZ              |
| Catalog page                         | Page 118 (C-7-2015) |
| GTIN                                 | 4017918974770       |
| Weight per piece (including packing) | 86.8 g              |
| Weight per piece (excluding packing) | 69.5 g              |
| Customs tariff number                | 85437090            |
| 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   | Power module |
| Product family | MINI Analog  |

### Input data

|                             |                     |
|-----------------------------|---------------------|
| Input voltage range DC      | 20 V DC ... 30 V DC |
| Max. input current          | 2 A                 |
| Reverse polarity protection | yes                 |

### Output data

|                      |                       |
|----------------------|-----------------------|
| Output voltage range | Input voltage - 0.8 V |
|----------------------|-----------------------|

### Connection data

|                                       |                  |
|---------------------------------------|------------------|
| Input                                 |                  |
| Connection method                     | Screw connection |
| Conductor cross section, rigid min.   | 0.2 mm²          |
| Conductor cross section, rigid max.   | 2.5 mm²          |
| Conductor cross section flexible min. | 0.2 mm²          |
| Conductor cross section flexible max. | 2.5 mm²          |
| Conductor cross section AWG min.      | 26               |
| Conductor cross section AWG max.      | 12               |
| Stripping length                      | 12 mm            |
| Screw thread                          | M3               |

### Signaling

|                  |                    |
|------------------|--------------------|
| Status display   | Green LED (supply) |
| Error indication | Red LED            |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
|---------------------|--|

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|        |          |
|--------|----------|
| Width  | 6.2 mm   |
| Height | 93.1 mm  |
| Depth  | 102.5 mm |

## Material specifications

|                                                        |             |
|--------------------------------------------------------|-------------|
| 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                          |
| Ambient temperature (operation)         | -20 °C ... 65 °C              |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C              |
| Maximum altitude                        | ≤ 2000 m                      |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing) |

## Approvals

### CE

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

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

### UL, USA/Canada

|                |               |
|----------------|---------------|
| Identification | UL 508 Listed |
|----------------|---------------|

### Shipbuilding approval

|             |                   |
|-------------|-------------------|
| Certificate | DNV GL TAA000020N |
|-------------|-------------------|

### DNV GL data

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

## EMC data

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Noise immunity                | EN 61000-6-2                                                         |
| Note                          | When being exposed to interference, there may be minimal deviations. |
| Electromagnetic compatibility | Conformance with EMC directive                                       |
| Noise emission                | EN 61000-6-4                                                         |

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## Electrostatic discharge

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

## Electrostatic discharge

|          |                                                                   |
|----------|-------------------------------------------------------------------|
| Comments | Safety measures must be taken to prevent electrostatic discharge. |
|----------|-------------------------------------------------------------------|

## 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  | B                       |

## Surge current load (surge)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-5 |
|-----------------------|--------------|

## Surge current load (surge)

|          |             |
|----------|-------------|
| Comments | Criterion B |
|----------|-------------|

## Conducted interference

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

## Mounting

|                   |                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|
| Mounting type     | DIN rail mounting                                                                                                     |
| Assembly note     | The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail. |
| Mounting position | any                                                                                                                   |

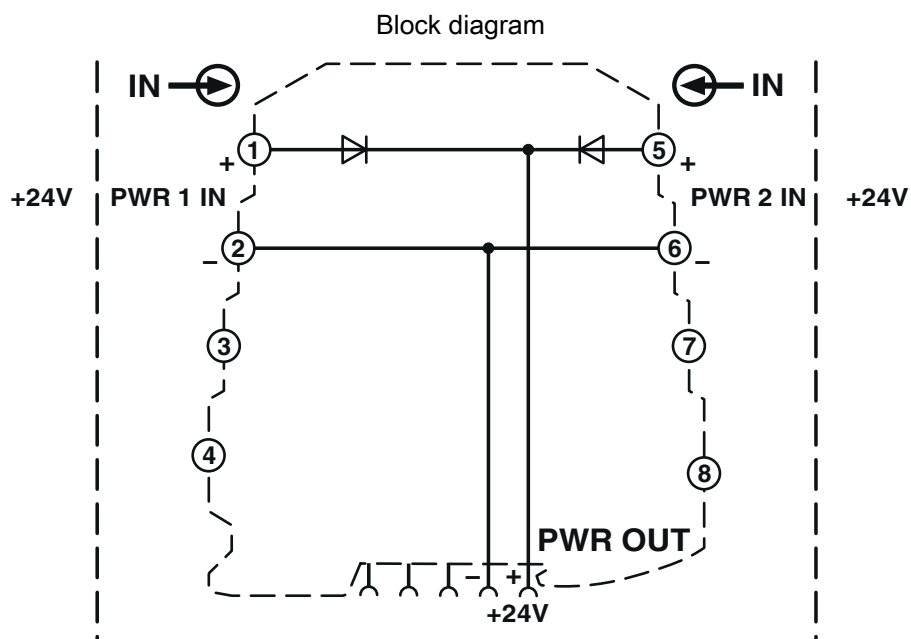
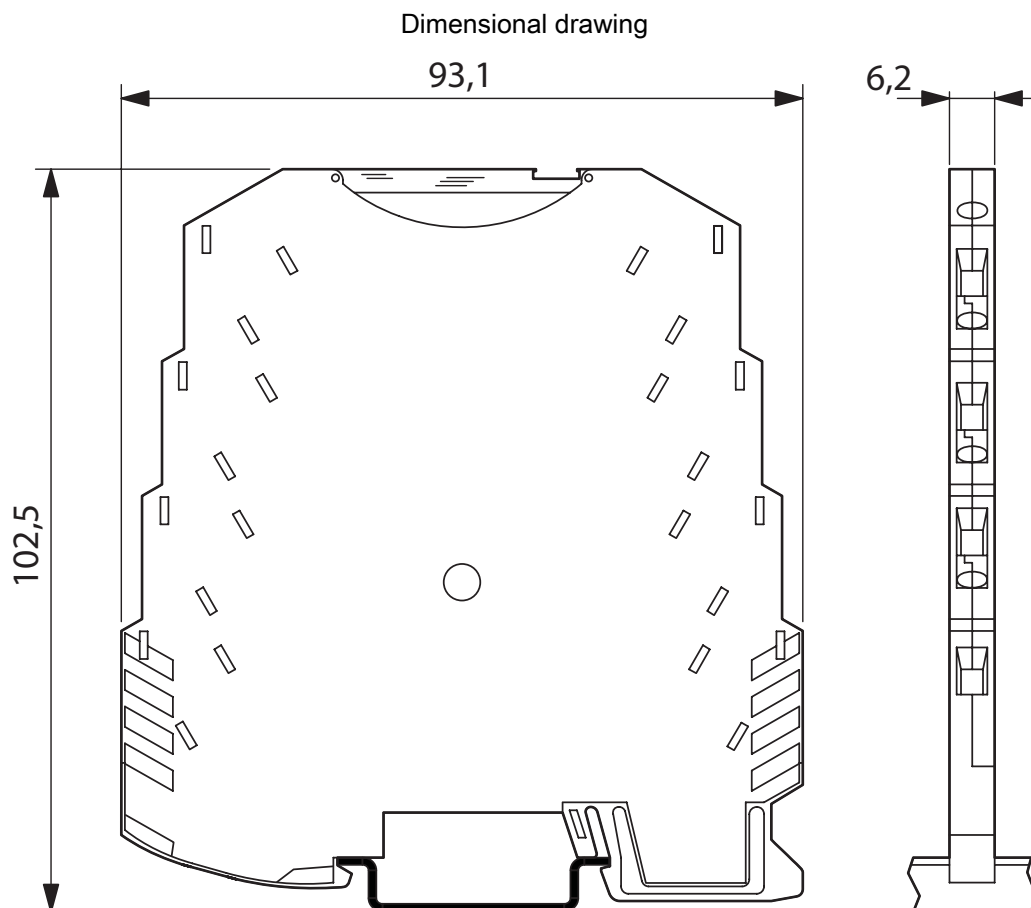
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## Drawings



# MINI MCR-SL-PTB - Power terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2864134>



**cUL Recognized**  
Approval ID: FILE E 238705



**UL Recognized**  
Approval ID: FILE E 238705



**DNV GL**  
Approval ID: TAA00002R0

**DNV**  
Approval ID: TAA000020N



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



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

**cULus Recognized**

**cULus Listed**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371392 |
| ECLASS-12.0 | 27371392 |
| ECLASS-13.0 | 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          |
| 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                                | a28023f7-5b31-4e7f-897e-33e6066ac3ed |

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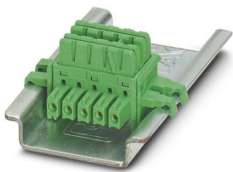
## Accessories

### ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - DIN rail bus connectors

2869728

<https://www.phoenixcontact.com/us/products/2869728>

DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.



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### TC-D37SUB-AIO16-M-PS-UNI - Module carrier

2902934

<https://www.phoenixcontact.com/us/products/2902934>

Universal termination carrier for connecting 16 MINI Analog signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection), with HART multiplexer connection



## MINI MCR-SL-PTB - Power terminal block

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## TC-D37SUB-ADIO16-M-P-UNI - Module carrier

2902933

<https://www.phoenixcontact.com/us/products/2902933>



Universal termination carrier for connecting 16 MINI Analog signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection)

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## MINI MCR DKL - Transparent cover

2308111

<https://www.phoenixcontact.com/us/products/2308111>



Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm

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## MINI MCR-DKL-LABEL - Marking label

2810272

<https://www.phoenixcontact.com/us/products/2810272>

Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL



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