

# MINI MCR-2-SPS-24-15 - Constant voltage source



1033202

<https://www.phoenixcontact.com/us/products/1033202>

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Constant voltage source with pluggable connection technology for the generation of a highly precise constant voltage of 15 V and for the supply of sensors without internal power supply. Screw connection technology.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1033202       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C404          |
| Product key                          | DK112Z        |
| GTIN                                 | 4055626537962 |
| Weight per piece (including packing) | 115.4 g       |
| Weight per piece (excluding packing) | 106.72 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   | Constant voltage source |
| Product family | MINI Analog Pro         |

### Electrical properties

|   |                          |
|---|--------------------------|
| Electrical isolation                          | 2-way isolation          |
| Electrical isolation between input and output | yes                      |
| Maximum temperature coefficient               | < 0.01 %/K               |
| Maximum transmission error                    | ≤ 0.1 % (of final value) |

#### Electrical isolation

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

#### Electrical isolation Input/output/power supply IEC/EN 61010-1

|                          |                       |
|--------------------------|-----------------------|
| Standards/regulations    | IEC/EN 61010-1        |
| Rated insulation voltage | 300 V <sub>rms</sub>  |
| Test voltage             | 3 kV AC (50 Hz, 60 s) |
| Insulation               | Reinforced insulation |

#### Supply

|                             |  |
|-----------------------------|--|
| Supply voltage range        | 9.6 V DC ... 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715) |
| Typical current consumption | < 38.2 mA (24 V)   |
|                             | < 79.8 mA (12 V)   |
| Power consumption           | < 900 mW (9.6 V DC)  |

### Input data

#### Signal: Voltage

|                            |                      |
|----------------------------|----------------------|
| Voltage input signal       | 9.6 V DC ... 30 V DC |
| Transmitter supply voltage | 15 V DC              |

### Output data

#### Signal: Voltage

|                            |         |
|----------------------------|---------|
| Max. voltage output signal | 15 V DC |
| Short-circuit current      | > 35 mA |

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|                                |                               |
|--------------------------------|-------------------------------|
| Output voltage with wire break | 15 V DC                       |
| Output current                 | ≤ 30 mA                       |
| Ripple                         | < 20 mV <sub>PP</sub> (600 Ω) |

## Connection data

|                                  |  |
|----------------------------------|--|
| Connection method                | Screw connection   |
| Stripping length                 | 10 mm  |
| Screw thread                     | M3   |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)<br>0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule) |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>   |
| Conductor cross-section AWG      | 24 ... 12 (flexible)   |
| Tightening torque                | 0.5 Nm ... 0.6 Nm  |

## Ex data

|                       |              |
|-----------------------|--------------|
| Ex installation (EPL) | Gc<br>Div. 2 |
|-----------------------|--------------|

## Signaling

|                |                            |
|----------------|----------------------------|
| Status display | Green LED (supply voltage) |
|----------------|----------------------------|

## Dimensions

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

## 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              |
| Altitude                                | ≤ 2000 m                      |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing) |

## Approvals

### CE

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

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## ATEX

|                |                          |
|----------------|--------------------------|
| Identification | ⊕ II 3 G Ex ec IIC T4 Gc |
| Certificate    | BVS 20 ATEX E 014X       |

## IECEX

|                |                    |
|----------------|--------------------|
| Identification | Ex ec IIC T4 Gc    |
| Certificate    | IECEX BVS 20.0010X |

## CCC / China-Ex

|                |                  |
|----------------|------------------|
| Identification | Ex ec IIC T4 Gc  |
| Certificate    | 2026122303128771 |

## 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 TAA000021E Rev. 1 |
|-------------|--------------------------|

## Shipbuilding data

|             |   |
|-------------|---|
| Temperature | B   |
| Humidity    | B   |
| Vibration   | A   |
| EMC         | A   |
| 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 |
|-----------------------|--------------|

## Standards and regulations

|                      |                 |
|----------------------|-----------------|
| Electrical isolation | 2-way isolation |
|----------------------|-----------------|

## GB Standard

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

## 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. |

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|                   |     |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

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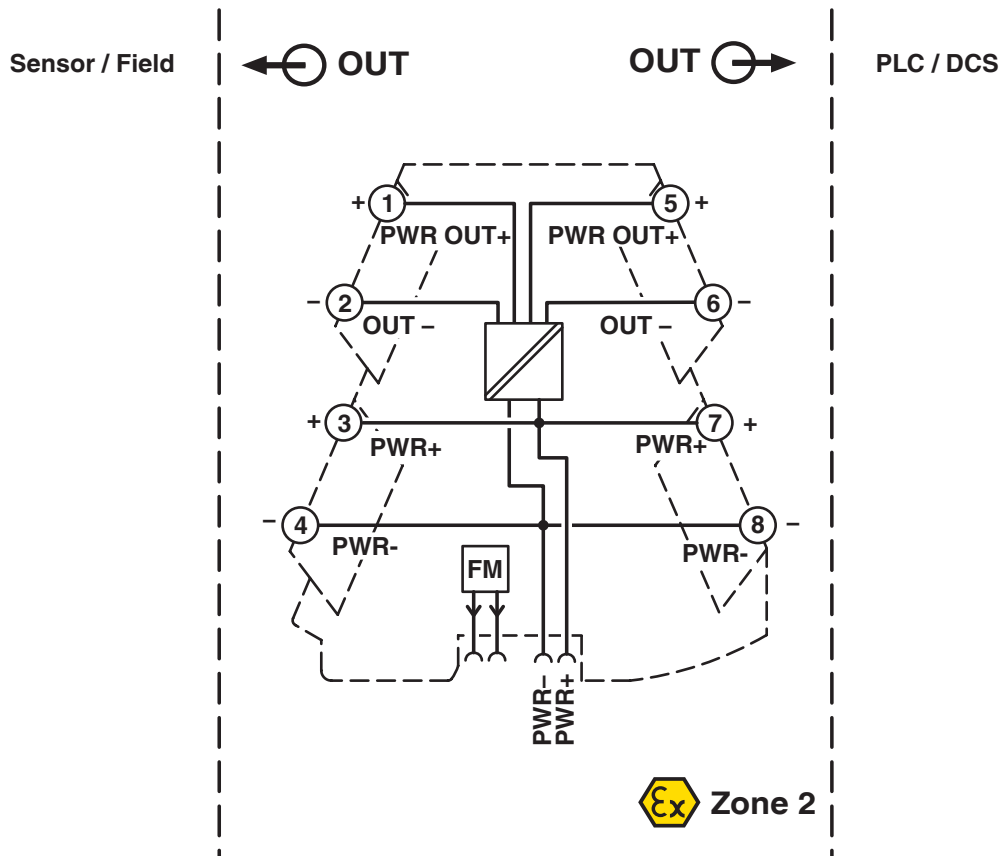


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## Drawings

Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1033202>


 **UL Listed**  
Approval ID: E238705


 **cUL Listed**  
Approval ID: E238705


**DNV**  
Approval ID: TAA000021E

 **IECEx**  
Approval ID: IECEx BVS 20.0010X

 **cUL Listed**  
Approval ID: E196811

 **UL Listed**  
Approval ID: E196811

 **ATEX**  
Approval ID: BVS 20 ATEX E 014X

 **CCC**  
Approval ID: 2022122303115966

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210192 |
| ECLASS-15.0 | 27210192 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002498 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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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)   |
|                                     | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7) |
| SCIP                                | 31c27dc5-0c92-4bc8-8361-89e1dc0315c0                           |

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