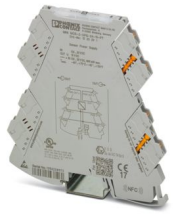
# MINI MCR-2-SPS-24-15-PT - Constant voltage source

1033201

https://www.phoenixcontact.com/us/products/1033201

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CRA-READY



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. Push-in connection technology.

## Commercial data

| | |
|---|---|
| Item number | 1033201 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C404 |
| Product key | DK112Z |
| GTIN | 4055626537696 |
| Weight per piece (including packing) | 107 g |
| Weight per piece (excluding packing) | 85 g |
| Customs tariff number | 85437090 |
| Country of origin | DE |

# Technical data

## Notes

Note on application

| | |
|---|---|
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

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 |
| No. of channels | 1 |

## Electrical properties

| | |
|---|---|
| Electrical isolation | 2-way isolation |
| Electrical isolation between input and output | yes |
| Maximum temperature coefficient | < 0.01 %/K |
| Maximum transmission error | ≤ 0.4 % (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 $V_{rms}$ |
| 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 |

## Output data

Signal: Voltage

| | |
|---|---|
| Max. voltage output signal | 15 V DC |
| Short-circuit current | > 35 mA |
| Output voltage with wire break | 15 V |
| Output current | ≤ 30 mA |
| Ripple | < 20 $mV_{PP}$ (600 Ω) |

## Connection data

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm² ... 2.5 mm² (with ferrule) |
| | 0.14 mm² ... 2.5 mm² (without ferrule) |
| Conductor cross-section flexible | 0.14 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 12 (flexible) |

## Ex data

| | |
|---|---|
| Ex installation (EPL) | Gc |
| | 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 |

ATEX

| | |
|---|---|
| Identification | Ⓔx 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

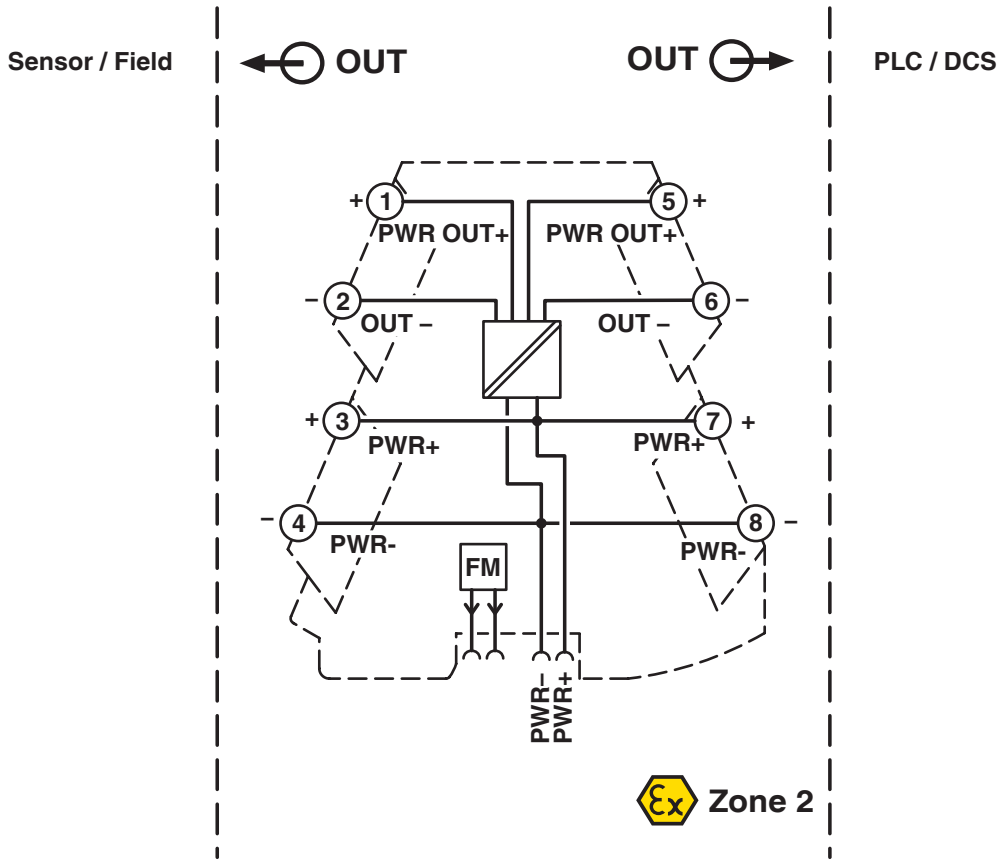
| | |
|---|---|
| Standards/regulations | GB/T 3836.1 |
| | GB/T 3836.3 |

## 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. |
| Mounting position | any |

## Drawings

Block diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1033201

**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: 2026122303128771

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## 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 | 9b057950-7862-4212-aef1-e01d5f7467d5 |

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