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Constant voltage source - MINI MCR-2-CVCS-PT - 2902065

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Constant voltage/current source with plug-in connection technology, input voltage: 9.6 V DC ... 30 V DC. Output voltage: 1.25 V DC ... 10 V DC or output current: 2.5 mA ... 20 mA can be set. Configurable via DIP switch. Push-in connection technology.

Product Description

Constant voltage/current source with plug-in connection technology for generating high-precision constant voltages and constant currents. The input voltage can be in a range between 9.6 V DC and 30 V DC and optionally applied via the connection terminal blocks of the module or grouped via the DIN rail connector. The following voltage and current values can be set on the output side: 1.25 V, 2.5 V, 3.75 V, 5 V, 6.25 V, 7.5 V, 8.75 V, 10 V DC, 2.5 mA, 5 mA, 7.5 mA, 10 mA, 12.5 mA, 15 mA, 17.5 mA, 20 mA. You can configure the device via DIP switches. The device supports fault monitoring and NFC communication.



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 100.0 g |
| Custom tariff number | 85437090 |
| Country of origin | Germany |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|--------|----------|
| Width | 6.2 mm |
| Height | 110.5 mm |
| Depth | 120.5 mm |

Ambient conditions

| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 70 °C |
|---------------------------------|------------------|

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Ambient conditions

| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection | IP20 |

Input data

| | |
|----------------------|----------------------|
| Voltage input signal | 9.6 V DC ... 30 V DC |
|----------------------|----------------------|

Output data

| | |
|---------------------------------|-----------------|
| Configurable/programmable | Yes |
| Max. output voltage | 10 V DC |
| | 8.75 V DC |
| | 7.5 V DC |
| | 6.25 V DC |
| | 5 V DC |
| | 3.75 V DC |
| | 2.5 V DC |
| | 1.25 V DC |
| Max. output current | 20 mA |
| | 17.5 mA |
| | 15 mA |
| | 12.5 mA |
| | 10 mA |
| | 7.5 mA |
| | 5 mA |
| | 2.5 mA |
| Output voltage with wire break | 13.5 V |
| Output current | ≤ 30 mA |
| Short-circuit current | > 32 mA |
| Load/output load current output | ≤ 600 Ω (20 mA) |

Power supply

| | |
|-----------------------------|--|
| Supply voltage range | 9.6 V DC ... 30 V DC (The DIN rail bus connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, Order No. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail according to EN 60715)) |
| Typical current consumption | < 42 mA (24 V DC) |
| | < 85 mA (12 V DC) |
| Power consumption | < 1.1 W (9.6 V DC) |

Connection data

| | |
|--|----------------------|
| Connection method | Push-in connection |
| Single conductor/terminal point, solid, with ferrule, min. | 0.14 mm ² |

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Connection data

| | |
|---|----------------------|
| Single conductor/terminal point, solid, with ferrule, max. | 2.5 mm ² |
| Single conductor/terminal point, solid, without ferrule, min. | 0.14 mm ² |
| Single conductor/terminal point, solid, without ferrule, max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.14 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Min. AWG conductor cross section, flexible | 24 |
| Max. AWG conductor cross section, flexible | 12 |
| Stripping length | 10 mm |

General

| | |
|-----------------------------------|--|
| Maximum transmission error | ≤ 0.1 % (of final value) |
| Maximum temperature coefficient | < 0.01 %/K |
| Electrical isolation | Reinforced insulation in accordance with IEC 61010-1 |
| Overvoltage category | II |
| Pollution degree | 2 |
| Rated insulation voltage | 300 V (effective) |
| Test voltage, input/output/supply | 3 kV (50 Hz, 1 min.) |
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 When being exposed to interference, there may be minimal deviations. |
| Color | gray |
| Housing material | PBT |
| Mounting position | any |
| Assembly instructions | The T connector can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail according to EN 60715. |
| Conformance | CE-compliant |
| ATEX | # II 3 G Ex nA IIC T4 Gc X |
| UL, USA / Canada | UL 508 Listed |
| | Class I, Div. 2, Groups A, B, C, D T6 |
| | Class I, Zone 2, Group IIC T6 |
| GL | GL applied for |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27210107 |
| eCl@ss 4.1 | 27210107 |

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Classifications

eCl@ss

| | |
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| eCl@ss 5.0 | 27210107 |
| eCl@ss 5.1 | 27210107 |
| eCl@ss 6.0 | 27210107 |
| eCl@ss 7.0 | 27210107 |
| eCl@ss 8.0 | 27049002 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001485 |
| ETIM 4.0 | EC001485 |
| ETIM 5.0 | EC002540 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11 | 39121008 |
| UNSPSC 12.01 | 39121008 |
| UNSPSC 13.2 | 39121008 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

| |
|---|
| UL Listed  |
|---|

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Approvals

cUL Listed

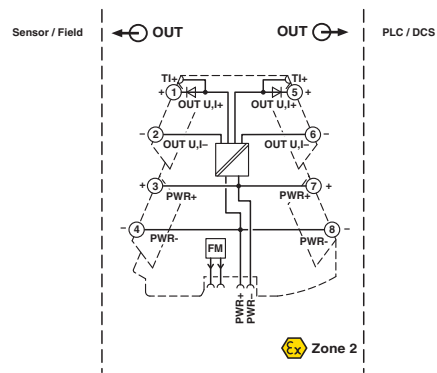
cULus Listed

Drawings

Pictogram



Block diagram



Pictogram

