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Constant voltage source - MINI MCR-2-CVCS - 2902064

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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 ... 10 V DC or output current: 2.5 mA ... 20 mA can be set. Configurable via DIP switch. Screw connection technology.

The figure shows the MINI MCR-2-CVCS-PT version

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 and 30 V DC and optionally applied via the connection terminal blocks of the modules 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
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Dimensions

Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

Ambient conditions

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Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Input data

Voltage input signal	9.6 V DC ... 30 V DC
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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
17.5 mA	
15 mA	
12.5 mA	
10 mA	
7.5 mA	
5 mA	
Output voltage with wire break	13.5 V
	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	Screw connection
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Technical data

Connection data

Single conductor/terminal point, solid, with ferrule, min.	0.2 mm ²
Single conductor/terminal point, solid, with ferrule, max.	1.5 mm ²
Single conductor/terminal point, solid, without ferrule, min.	0.2 mm ²
Single conductor/terminal point, solid, without ferrule, max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Stripping length	10 mm
Screw thread	M3

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

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Classifications

eCl@ss

eCl@ss 4.0	27210107
eCl@ss 4.1	27210107
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

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Approvals

UL Listed

cUL Listed

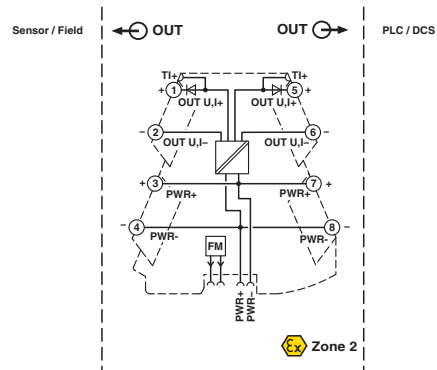
cULus Listed

Drawings

Pictogram



Block diagram



Pictogram

