

Constant voltage source - MINI MCR-SL-CVS-24-5-10-NC - 2902822

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Constant voltage source, input voltage 9.6 - 30 V DC, output voltage 10 V, 7.5 V, 5 V, 2.5 V DC, electrically isolated, can be configured via DIP switches, screw connection technology, standard configuration

Product Description

The 6.2 mm wide configurable MINI MCR-SL-CVS-24-10-5 constant voltage source is used to generate high precision constant voltages. The input voltage can fall between 9.6 V DC and 30 V DC. The DIP switches accessible from the side of the housing enable configuration of the 10 V DC, 5 V DC, 7.5 V DC, and 2.5 V DC output voltages. The input voltage can be applied either via connection terminal blocks on the modules or in conjunction with the DIN rail connector.



Key commercial data

package_quantity	1
GTIN	4046356682428

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	93.1 mm
Depth	102.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °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, preconfigured
Max. output voltage	10 V DC

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Output data

Max. output voltage	7.5 V DC
Max. output voltage	5 V DC
Max. output voltage	2.5 V DC
Output current	≤ 30 mA
Short-circuit current	approx. 32 mA

Power supply

Nominal supply voltage	24 V DC
Supply voltage range	9.6 V DC ... 30 V DC (The T 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))
Max. current consumption	< 25 mA (10 V output with 30 mA load at 24 V DC IN)
Max. current consumption	< 65 mA (10 V output with 30 mA load at 9.6 V DC IN)
Max. current consumption	< 50 mA (10 V voltage output with 30 mA load at 12 V DC IN)
Max. current consumption	< 20 mA (10 V voltage output with 30 mA load at 30 V DC IN)
Power consumption	< 600 mW (at 24 V IN)
Power consumption	< 624 mW (at 9.6 V IN)
Power consumption	< 564 mW (At 12 V IN)
Power consumption	< 540 mW (At 30 V IN)

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12
Stripping length	12 mm
Screw thread	M3

General

Maximum transmission error	≤ 0.1 % (of final value)
Maximum transmission error	≤ 0.5 % (Without adjustment)
Maximum temperature coefficient	< 0.01 %/K
Temperature coefficient, typical	< 0.002 %/K
Setting range comparison	± 300 mV
Electrical isolation	Basic insulation according to EN 61010
Surge voltage category	II
Pollution degree	2
Rated insulation voltage	50 V AC/DC
Test voltage input/output	1.5 kV (50 Hz, 1 min.)

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General

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	green
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
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T6
UL, USA / Canada	Class I, Zone 2, Group IIC

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	27210107

ETIM

ETIM 3.0	EC001485
ETIM 4.0	EC001485
ETIM 5.0	EC001485

UNSPSC

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

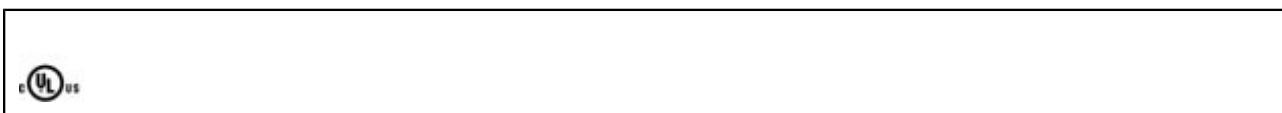
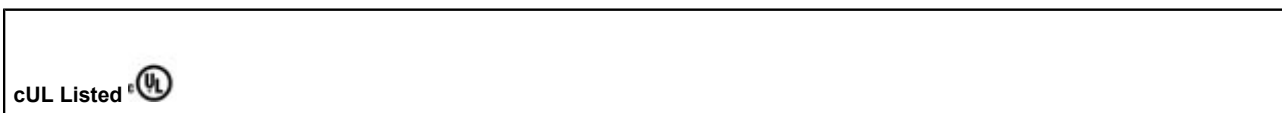
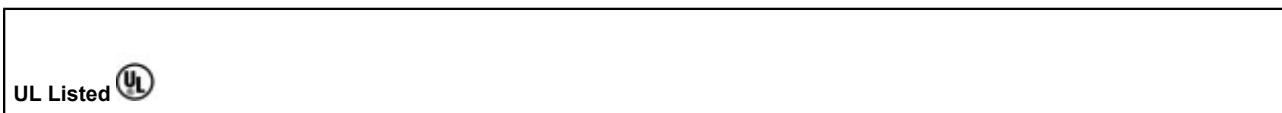
approvals

ATEX / UL Listed / cUL Listed / cULus Listed / UL Listed / cUL Listed / cULus Listed /

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approvals

Approval details



accessories

DIN rail connector

ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - 2869728



Power module

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accessories

MINI MCR-SL-PTB - 2864134



MINI MCR-SL-PTB-SP - 2864147



Power supply

MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983



MINI-PS-100-240AC/24DC/1.5/EX - 2866653



System adapter

MINI MCR-SL-V8-FLK 16-A - 2811268



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accessories

Marking material

MINI MCR DKL - 2308111



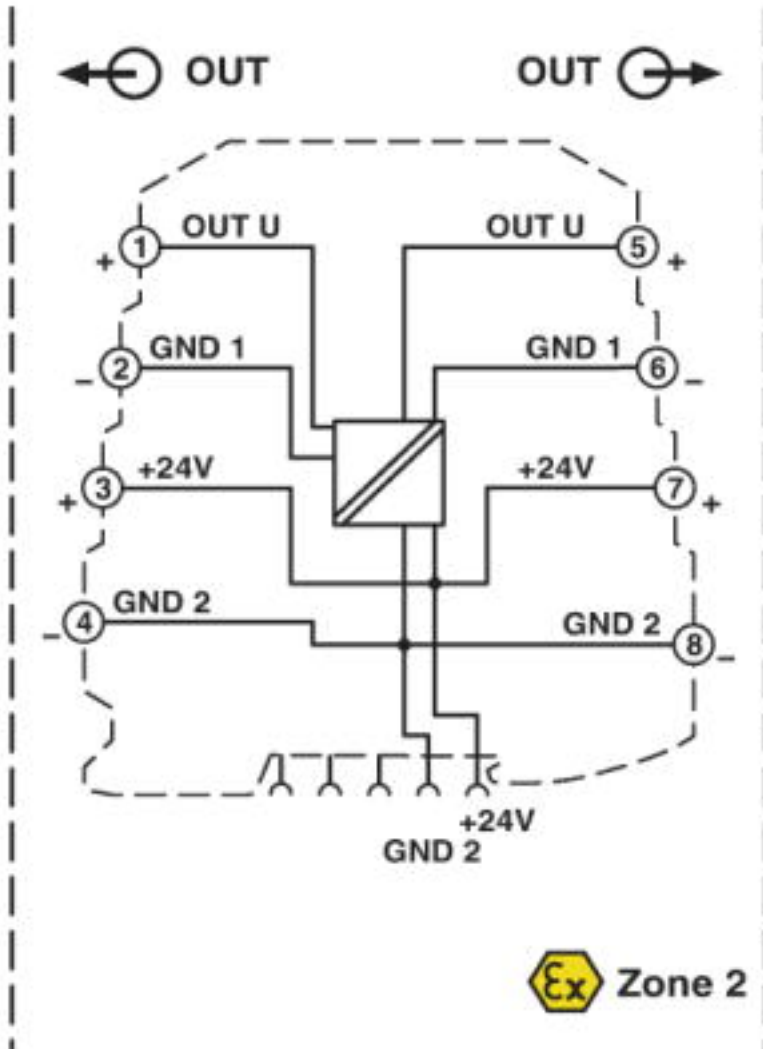
MINI MCR-DKL-LABEL - 2810272



Drawings

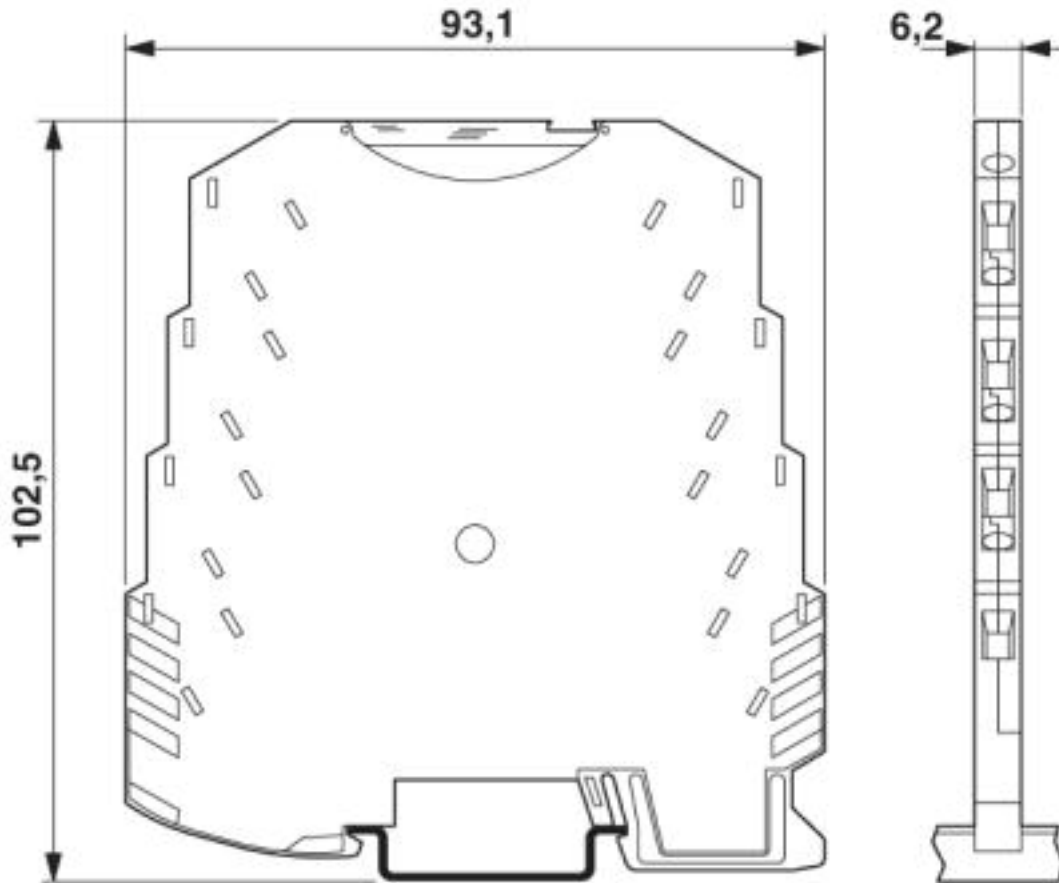
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Block diagram



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Dimensioned drawing



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