

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



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.

## Commercial data

Item number	2902822
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C403
Product key	DK1139
GTIN	4046356682428
Weight per piece (including packing)	86.3 g
Weight per piece (excluding packing)	82.88 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
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### Product properties

Product type	Constant voltage source
Product family	MINI Analog
Configuration	DIP switches

### System properties

#### Functionality

Configuration	DIP switches
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### Electrical properties

Setting range comparison	$\pm 300$ mV
Electrical isolation	2-way isolation
Electrical isolation between input and output	yes
Maximum power dissipation for nominal condition	300 mW
Maximum temperature coefficient	$< 0.01$ %/K
Temperature coefficient, typical	$< 0.002$ %/K
Maximum transmission error	$\leq 0.1$ % (of final value) $\leq 0.5$ % (Without adjustment)

#### Electrical isolation

Overvoltage category	II
Pollution degree	2

#### Electrical isolation Input/output IEC/EN 61010

Standards/regulations	IEC/EN 61010
Rated insulation voltage	50 V AC/DC
Test voltage	1.5 kV AC (50 Hz, 60 s)
Insulation	Basic insulation

#### Supply

Nominal supply voltage	24 V DC
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)
Max. current consumption	$< 25$ mA (10 V output with 30 mA load at 24 V DC IN) $< 65$ mA (10 V output with 30 mA load at 9.6 V DC IN) $< 50$ mA (10 V voltage output with 30 mA load at 12 V DC IN)

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Power consumption	< 20 mA (10 V voltage output with 30 mA load at 30 V DC IN)
	< 600 mW (at 24 V IN)
	< 624 mW (at 9.6 V IN)
	< 564 mW (At 12 V IN)
	< 540 mW (at 30 V IN)

## Input data

Signal: Voltage

Voltage input signal	9.6 V DC ... 30 V DC
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## Output data

Signal: Voltage

Configurable/programmable	Yes, preconfigured
Max. voltage output signal	10 V DC
	7.5 V DC
	5 V DC
	2.5 V DC
Short-circuit current	approx. 32 mA
Output current	≤ 30 mA
Ripple	< 20 mV <sub>PP</sub>

## Connection data

Connection method	Screw connection
Stripping length	12 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 12

## Dimensions

Dimensional drawing	
Width	6.2 mm
Height	93.1 mm
Depth	101.2 mm

## Material specifications

Color	green (RAL 6021)
Housing material	PBT

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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
Ambient temperature (operation)	-20 °C ... 65 °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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### UL, USA/Canada

Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC

## 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
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### Electrostatic discharge

Standards/regulations	EN 61000-4-2
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### Electrostatic discharge

Comments	Safety measures must be taken to prevent electrostatic discharge.
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### Electromagnetic HF field

Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Typical deviation from the measuring range final value	3 %

### Electromagnetic HF field

Comments	Criterion A
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### Fast transients (burst)

Designation	Fast transients (burst)
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Standards/regulations	EN 61000-4-4
Typical deviation from the measuring range final value	3 %

## Fast transients (burst)

Comments	Criterion B
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## Surge current load (surge)

Standards/regulations	EN 61000-4-5
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## Surge current load (surge)

Comments	Criterion B
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## Conducted interference

Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Typical deviation from the measuring range final value	0.5 %

## Conducted interference

Comments	Criterion A
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## Standards and regulations

Electrical isolation	2-way isolation
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## 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

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## Drawings



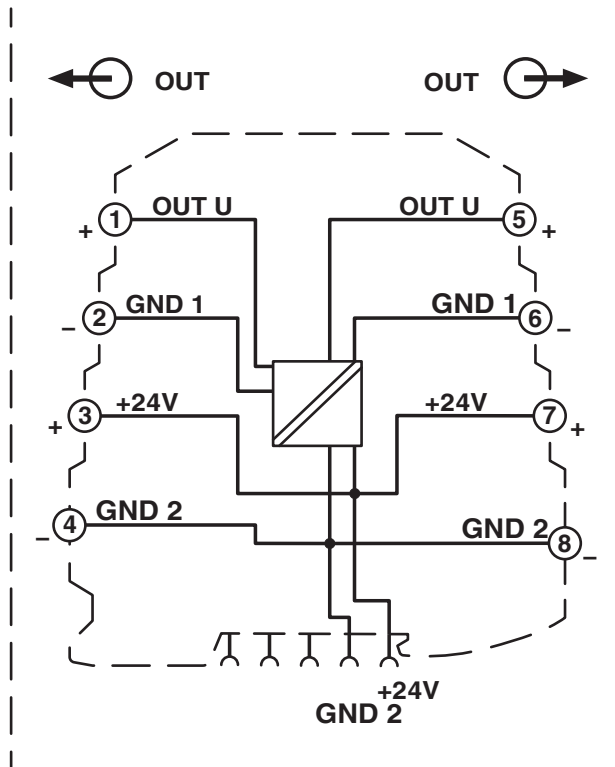
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Block diagram



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




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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2902822>

 **UL Listed**  
Approval ID: E238705

 **cUL Listed**  
Approval ID: E238705

**DNV**  
Approval ID: TAA00002R0

 **cUL Listed**  
Approval ID: E199827

 **UL Listed**  
Approval ID: FILE E 199827

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## Classifications

### ECLASS

ECLASS-13.0	27210192
ECLASS-15.0	27210192

### ETIM

ETIM 10.0	EC002498
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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	d592cdca-41a8-4f80-85c7-fff7473dbfaa

### EF3.1 Climate Change

CO2e kg	1.187 kg CO2e
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