

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

EMC note	EMC: class A product, see manufacturer's declaration in the download area
oduct properties	
Product type	Constant voltage source
Product family	MINI Analog
Configuration	DIP switches
Insulation characteristics	
Overvoltage category	II
Pollution degree	2
ystem properties	
Functionality	
Configuration	DIP switches
ectrical properties	
Setting range comparison	± 300 mV
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	≤ 0.1 % (of final value)
	≤ 0.5 % (Without adjustment)
Electrical isolation Input/output	
Rated insulation voltage	50 V AC/DC
Test voltage	1.5 kV AC (50 Hz, 60 s)
Insulation	Basic insulation in accordance with IEC/EN 61010
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)
	< 20 mA (10 V voltage output with 30 mA load at 30 V DC IN)
	< 600 mW (at 24 V IN)



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Power consumption	< 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

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 _{PP}

Connection data

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

Dimensions

Dimensional drawing	93,1
Width	6.2 mm
Height	93.1 mm
Depth	101.2 mm

Material specifications

Color	green (RAL 6021)
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



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Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2
vironmental 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)
oprovals	
CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
UL, USA/Canada	
Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC
Shipbuilding approval	
Certificate	DNV GL TAA00002R0
Chinh diding data	
Shipbuilding data	D
Temperature	B B
Humidity Vibration	В
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
	apon motaliation on board
MC 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
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Comments	Safety measures must be taken to prevent electrostatic



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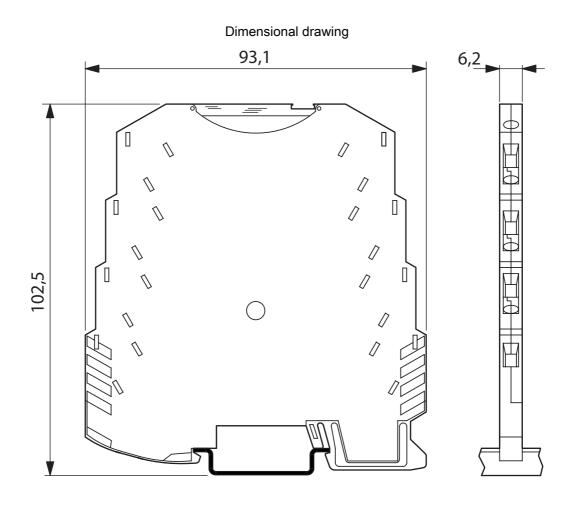
	discharge.
Electromagnetic HF field	
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Typical deviation from the measuring range final value	3 %
Electromagnetic HF field	
Comments	Criterion A
Fast transients (burst)	
Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Typical deviation from the measuring range final value	3 %
Fast transients (burst)	
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Comments	Criterion B
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
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 OUT OUT U OUT U GND 1 GND 1 GND 2 GND 2 GND 2 GND 2 GND 2 GND 2



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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 9.0	EC002498
UN	ISPSC	

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)-l
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
EF3.0 Climate Change	
CO2e kg	1.187 kg CO2e

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