

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



2902065

<https://www.phoenixcontact.com/us/products/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.

Commercial data

Item number	2902065
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	CK1444
Catalog page	Page 106 (C-5-2019)
GTIN	4046356649926
Weight per piece (including packing)	108.3 g
Weight per piece (excluding packing)	97 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 Pro
Configuration	DIP switches

Insulation characteristics: GB Standard

Overtoltage category	II
Pollution degree	2

System properties

Functionality

Configuration	DIP switches
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Electrical properties

Maximum temperature coefficient	< 0.01 %/K
Maximum transmission error	≤ 0.1 % (of final value)

Electrical isolation Input/output/power supply

Rated insulation voltage	300 V _{rms}
Test voltage	3 kV AC (50 Hz, 60 s)
Insulation	Reinforced insulation according to IEC/EN 61010-1

Supply

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)
Typical current consumption	< 42 mA (24 V DC)
	< 85 mA (12 V DC)
Power consumption	< 1.1 W (9.6 V DC)

Input data

Signal: Voltage

Voltage input signal	9.6 V DC ... 30 V DC
Transmitter supply voltage	10 V

Output data

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Signal: Voltage

Configurable/programmable	Yes
Max. voltage output signal	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. current output signal	20 mA
	17.5 mA
	15 mA
	12.5 mA
	10 mA
	7.5 mA
	5 mA
	2.5 mA
Short-circuit current	> 32 mA
Output voltage with wire break	13.5 V
Output current	≤ 30 mA
Load/output load current output	≤ 600 Ω (20 mA)
Ripple	< 20 mV _{PP} (at 600 Ω)
Ripple current	40 μA _{PP}

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ² (with ferrule)
	0.14 mm ² ... 2.5 mm ² (without ferrule)
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12 (flexible)

Ex data

Ex installation (EPL)	Gc
	Div. 2

Signaling

Status display	Green LED (supply voltage)
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Dimensions

Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm

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Material specifications

Color	gray (RAL 7042)
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
Housing material	PBT

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (not assessed by UL)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	Ⓜ II 3 G Ex ec IIC T4 Gc
Certificate	BVS 20 ATEX E 014X

UKCA Ex (UKEX)

Identification	Ⓜ II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF21UKEX2902004X

IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX BVS 20.0010X

CCC / China-Ex

Identification	Ex nA IIC T4 Gc
Certificate	NEPSI GYJ20.1320X

UL, USA/Canada

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

Shipbuilding approval

Certificate	DNV GL TAA000021E Rev. 1
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DNV GL data

Temperature	B
Humidity	B
Vibration	A

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EMC	A
Enclosure	Required protection according to the Rules shall be provided upon installation on board

EMC data

Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

Standards and regulations

GB Standard

Standards/regulations	GB 3836.1
	GB 3836.8

Mounting

Mounting type	DIN rail mounting
Assembly instructions	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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Classifications

ECLASS

ECLASS-11.0	27040701
ECLASS-12.0	27040701
ECLASS-13.0	27210192

ETIM

ETIM 9.0	EC002498
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UNSPSC

UNSPSC 21.0	39121000
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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