

Loop-powered isolators - MCR-SL-1CLP-I-I-00-4KV - 2814841

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MCR loop-powered isolator for the electrical isolation of current signals without auxiliary power, input signal: 0(4) ... 20 mA, output signal: 0(4) ... 20 mA

Why buy this product

- 0/4
20 mA current signals
- Electrical isolation without additional auxiliary voltage
- Safe isolation



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 190804
Weight per Piece (excluding packing)	100.0 g
Custom tariff number	85437090
Country of origin	Germany

Technical data

Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-10 °C ... 70 °C
Degree of protection	IP20

Input data

Description of the input	Current input
Configurable/programmable	no
Current input signal	0 mA ... 20 mA

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Technical data

Input data

	4 mA ... 20 mA
Max. input voltage	30 V (30 V overload)
Max. input current	50 mA (100 mA overload)
Response current	< 50 µA
Input voltage limitation	33 V 5 % (with Zener diode)
Voltage dissipation	2.5 V (at I = 20 mA)

Output data

Output name	Current output
Configurable/programmable	no
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
Max. output current	< 50 mA
Load/output load current output	≤ 1375 Ω (at I = 20 mA output signal)
Transmission Behavior	1:1 to input signal

Power supply

Supply voltage range	no separate supply voltage necessary
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Connection data

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max.	14
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Stripping length	8 mm
Screw thread	M3

General

No. of channels	1
Maximum transmission error	≤ 0.1 % (of final value)
Maximum temperature coefficient	≤ 0.002 %/K (of measured value / 100 Ω load)
Additional error, load-dependent	0.02 % (of measured value / 100 Ω load)
Limit frequency (3 dB)	< 75 Hz (at I = 20 mA and maximum load)
Step response (10-90%)	5 ms (with 500 Ω load)
Surge voltage category	II
Pollution degree	2
Test voltage input/output	4 kV (50 Hz, 1 min.)
Standards/regulations	DIN EN 61010-1
	VDE 0100-410
	VDE 0106-101

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Technical data

General

Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any
Conformance	CE-compliant
UL, USA / Canada	cULus

Classifications

eCl@ss

eCl@ss 4.0	27210120
eCl@ss 4.1	27210120
eCl@ss 5.0	27210120
eCl@ss 5.1	27210120
eCl@ss 6.0	27210120
eCl@ss 7.0	27210120
eCl@ss 8.0	27210120

ETIM

ETIM 2.0	EC001485
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

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UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

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Approvals

Approvals submitted

Approval details

UL Recognized

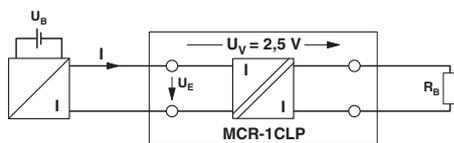
cUL Recognized

GOST

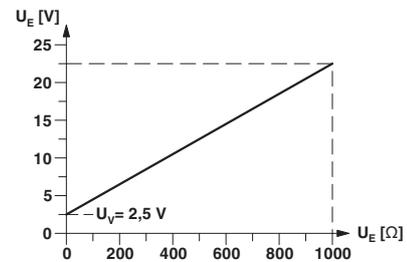
cULus Recognized

Drawings

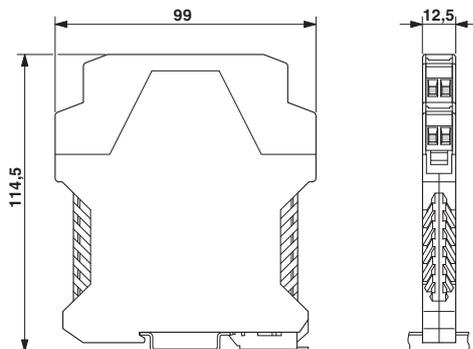
Application drawing



Diagram



Dimensioned drawing



Circuit diagram

