

# MCR-2CLP-I-I-00 - Passive separator



2814029

<https://www.phoenixcontact.com/us/products/2814029>

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MCR passive isolator, for the electrical isolation of current signals without auxiliary power, 2-channel, input signal: 0(4)...20 mA, output signal: 0(4)...20 mA

## Your advantages

- 1, 2 or 4-channel version as an option
- Electrical isolation without additional auxiliary voltage
- 0/4 ... 20 mA current signals

## Commercial data

Item number	2814029
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1XXX
GTIN	4017918131715
Weight per piece (including packing)	111.5 g
Weight per piece (excluding packing)	111.5 g
Customs tariff number	85437090
Country of origin	DE

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## Technical data

### Product properties

Product type	Passive separator
No. of channels	2

### Electrical properties

Electrical isolation between input and output	yes
Limit frequency (3 dB)	< 75 Hz
Maximum power dissipation for nominal condition	100 mW
Test voltage input/output	510 V AC (50 Hz, 60 s)
Signal transmission behavior	In = Out
Step response (10-90%)	5 ms (with 500 $\Omega$ load)
Maximum temperature coefficient	$\leq 0.002$ %/K (of measured value / 100 $\Omega$ load)
Maximum transmission error	$\leq 0.1$ % (of final value)
Additional error, load-dependent	0.02 % (of measured value)

### Supply

Supply voltage range	no separate supply voltage necessary
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### Input data

#### Signal

Description of the input	Current input
Number of inputs	2
Configurable/programmable	no
Max. voltage input signal	30 V (30 V overload)
Current input signal	0 mA ... 20 mA 4 mA ... 20 mA
Max. current input signal	50 mA (100 mA overload)
Response current	< 50 $\mu$ A
Input voltage limitation	33 V (with Zener diode)
Voltage dissipation	2.5 V (I = 20 mA)

### Output data

#### Signal: Current

Number of outputs	2
Configurable/programmable	no
Current output signal	0 mA ... 20 mA 4 mA ... 20 mA
Max. current output signal	< 50 mA
Load/output load current output	$\leq 1375$ $\Omega$ (at I = 20 mA output signal)
Ripple	< 5 mV (rms)

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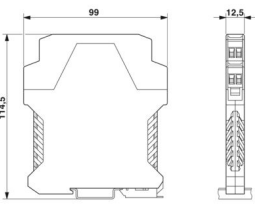
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## Connection data

Connection method	Pluggable screw connection
Stripping length	8 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	24 ... 14

## Dimensions

Dimensional drawing	
Width	12.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

## Environmental and real-life conditions

### Ambient conditions

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

## Approvals

### CE

Certificate	CE-compliant
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### UL, USA/Canada

Identification	cULus
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

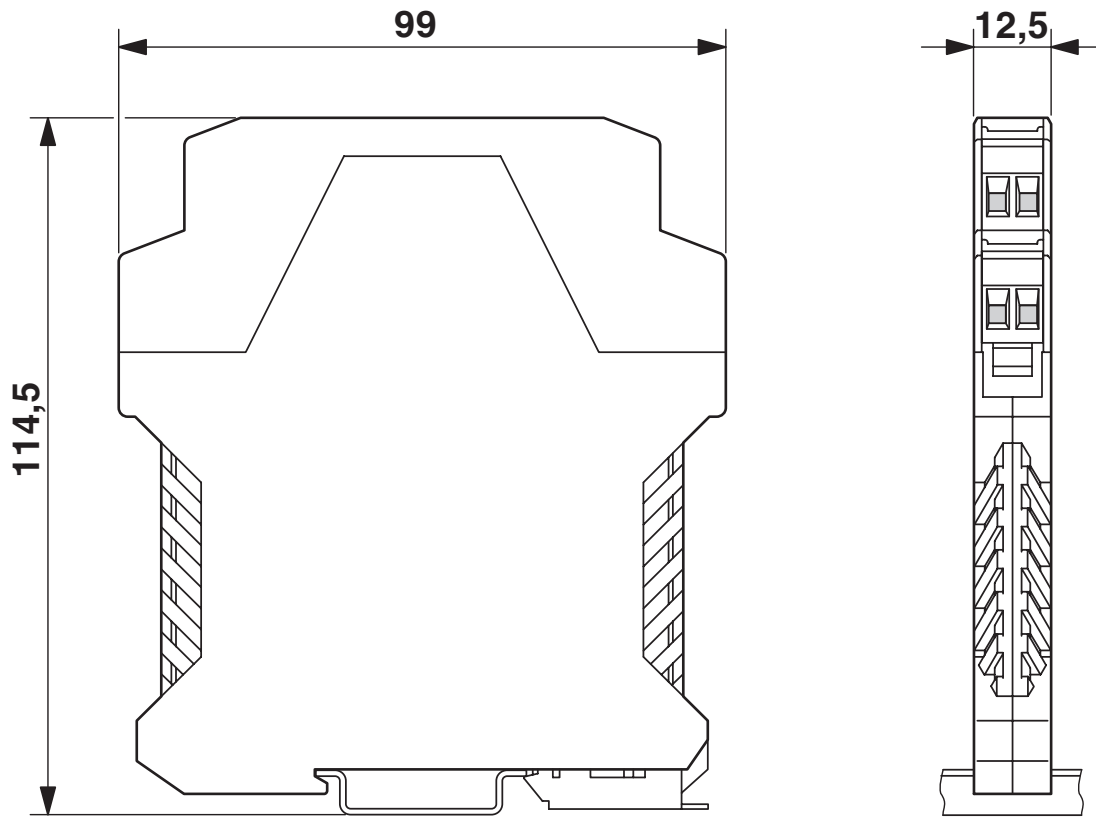
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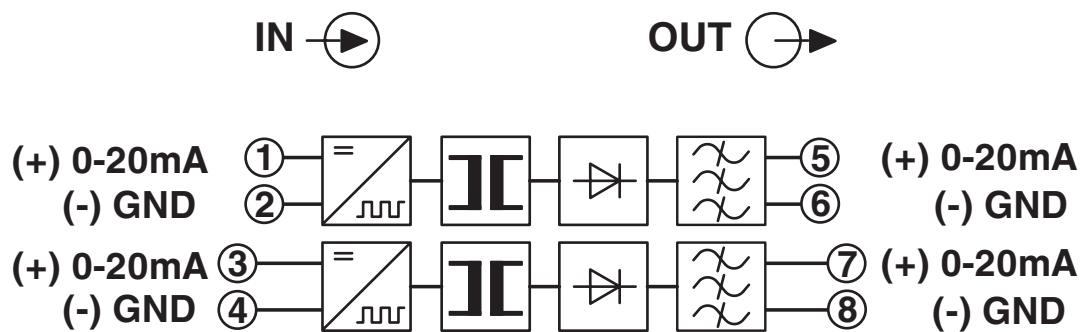
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## Drawings

Dimensional drawing



Circuit diagram



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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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.)	No substance above 0.1 wt%
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