

MCR-C-U-I- 0-DC - Signal conditioner



2814472

<https://www.phoenixcontact.com/us/products/2814472>

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MCR 3-way isolating amplifier, for electrical isolation of analog signals, input signal: 0 V ... 10 V, output signal: 0 mA ... 20 mA

The figure shows version MCR-C-I-I-00-DC

Your advantages

- Processing of standard signals
- 3-way isolation
- Fixed setting of input and output signals

Commercial data

Item number	2814472
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK1XXX
GTIN	4017918156176
Weight per piece (including packing)	83.2 g
Weight per piece (excluding packing)	81.59 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	Signal conditioner
No. of channels	1

Electrical properties

Limit frequency (3 dB)	30 Hz
Test voltage, input/output/supply	1.5 kV AC (50 Hz, 60 s)
Protective circuit	Transient protection
Step response (10-90%)	11 ms
Maximum temperature coefficient	< 0.015 %/K
Maximum transmission error	≤ 0.2 % (of final value)
Transmission error, typical	< 0.1 %
Max. scale factor error	< 0.2 %

Supply

Supply voltage range	20 V DC ... 30 V DC
Typical current consumption	< 15 mA (without load)

Input data

Signal

Description of the input	Voltage input
Configurable/programmable	no
Voltage input signal	0 V ... 10 V
Max. voltage input signal	30 V
Input resistance of voltage input	200 kΩ

Output data

Signal: Current output

Configurable/programmable	no
Current output signal	0 mA ... 20 mA
Max. current output signal	30 mA
Load/output load current output	≤ 500 Ω
Linear transmission range (in reference to the output range end value)	-5 % ... 105 %

Connection data

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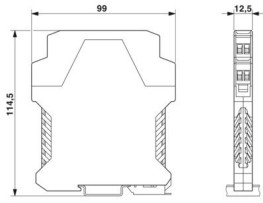
Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14

Interfaces

Data communication (bypass)

Limit frequency (3 dB)	30 Hz
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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

Ambient temperature (operation)	-25 °C ... 60 °C
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Approvals

CE

Certificate	CE-compliant
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Mounting

Mounting position	any
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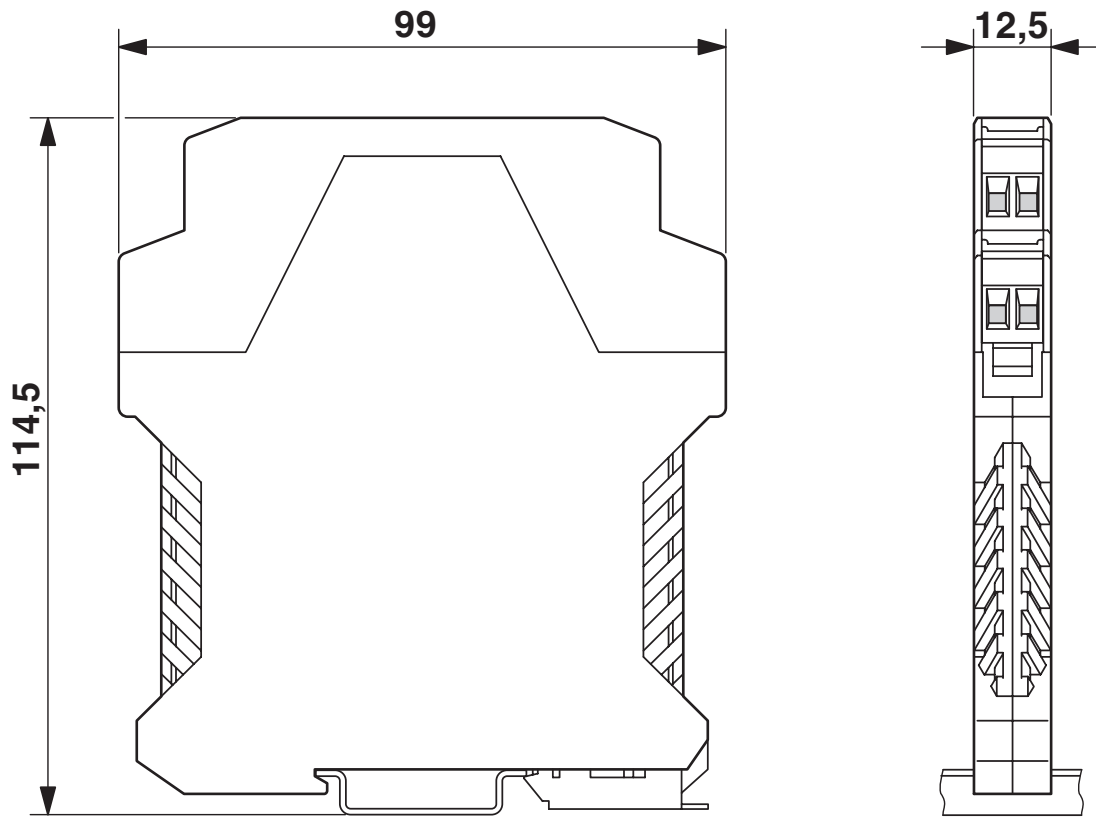
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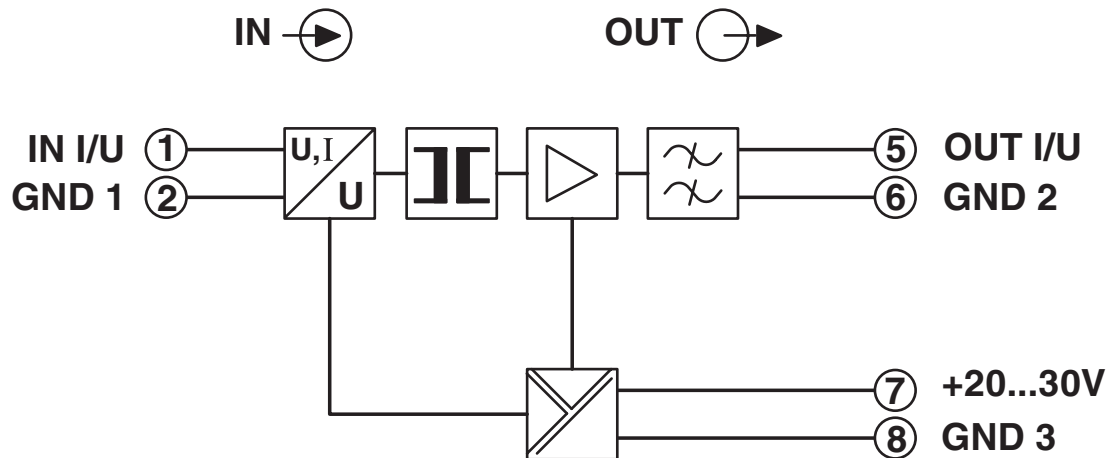
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Drawings

Dimensional drawing



Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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