

MCR-C-I-U- 4-DC - Signal conditioner



2814511

<https://www.phoenixcontact.com/us/products/2814511>

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MCR 3-way signal conditioner, for galvanic isolation of analog signals, input signal: 4 mA ... 20 mA, output signal: 0 V ... 10 V. Replacement part: 2902002 MINI MCR-2-I4-U.

Your advantages

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

Commercial data

Item number	2814511
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1XXX
GTIN	4017918156206
Weight per piece (including packing)	80.08 g
Weight per piece (excluding packing)	74.69 g
Customs tariff number	85437090
Country of origin	DE

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Technical data

Product properties

Product type	Signal conditioner
No. of channels	1

Electrical properties

Electrical isolation between input and output	yes
Limit frequency (3 dB)	30 Hz
Maximum power dissipation for nominal condition	450 mW
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	≤ 0.3 % (of final value)
Transmission error, typical	< 0.2 % (of final value)
Max. scale factor error	< 0.3 % (of final value)

Supply

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

Input data

Signal

Description of the input	Current input
Number of inputs	1
Configurable/programmable	no
Current input signal	4 mA ... 20 mA
Max. current input signal	50 mA
Input resistance current input	50 Ω

Output data

Signal

Number of outputs	1
Configurable/programmable	no
Voltage output signal	0 V ... 10 V
Max. voltage output signal	15 V
Load/output load voltage output	≥ 10 kΩ
Linear transmission range (in reference to the output range end value)	-10 % ... 110 %

Connection data

Connection method	Pluggable screw connection
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Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
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 type	DIN rail mounting
Mounting position	any

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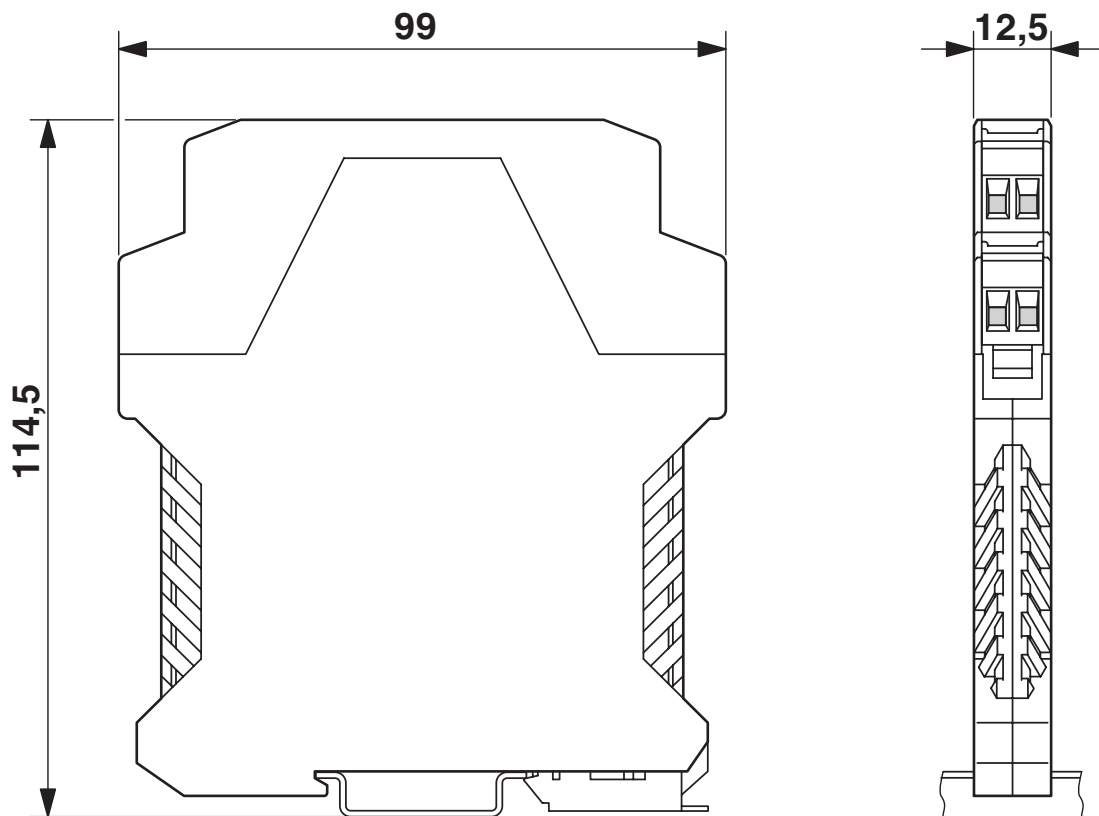
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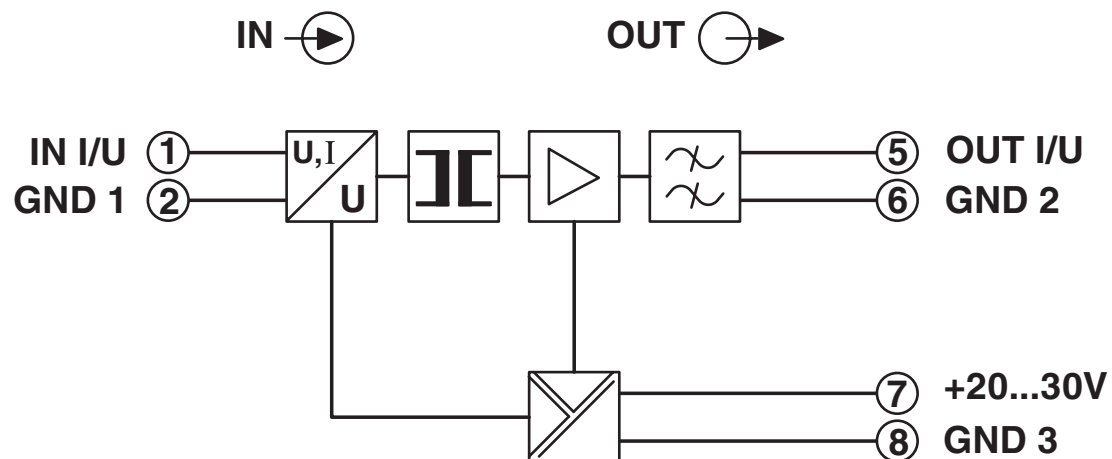


Drawings

Dimensional drawing



Circuit diagram



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Classifications

ETIM

ETIM 8.0	EC002653
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UNSPSC

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)-I

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)
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