

MCR-C-U-U-DC - Signal conditioner



2814469

<https://www.phoenixcontact.com/us/products/2814469>

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MCR 3-way signal conditioner, for galvanic isolation of analog signals, input signal: 0 ... 10 V / (+/-) 10 V, output signal: 0 ... 10 V / (+/-)10 V. Replacement part: 2902042 MINI MCR-2-U-U.

Your advantages

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

Commercial data

Item number	2814469
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	CK1811
Catalog page	Page 131 (C-7-2013)
GTIN	4017918156169
Weight per piece (including packing)	79.88 g
Weight per piece (excluding packing)	74.96 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

Data management status

Article revision	12
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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	≤ 0.2 % (of final value)
Transmission error, typical	< 0.1 % (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	Voltage input
Number of inputs	1
Configurable/programmable	no
Voltage input signal	0 V ... 10 V -10 V ... 10 V
Max. voltage input signal	30 V
Input resistance of voltage input	100 kΩ

Output data

Signal: Voltage output

Number of outputs	1
Configurable/programmable	no
Voltage output signal	0 V ... 10 V -10 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)	-110 % ... 110 % (Bipolar signals)

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Connection data

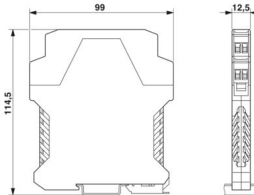
Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14

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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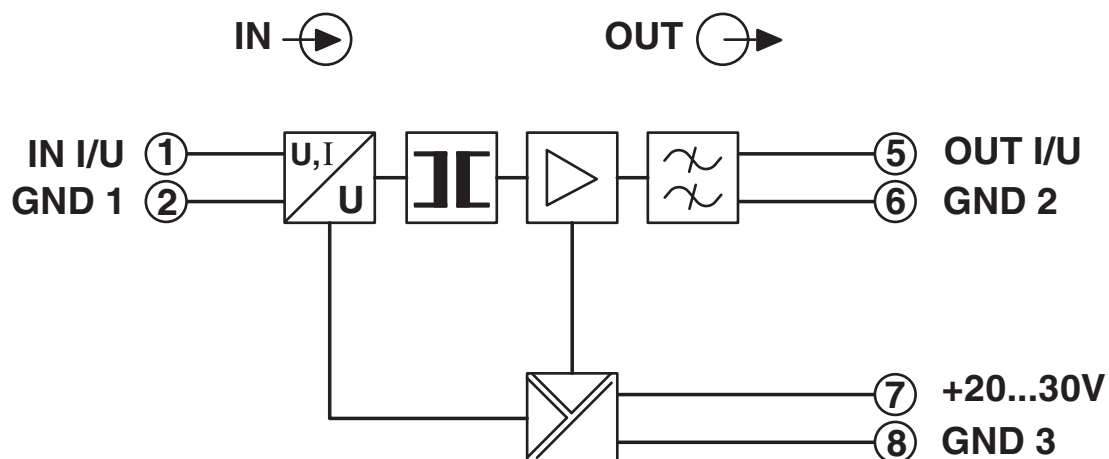
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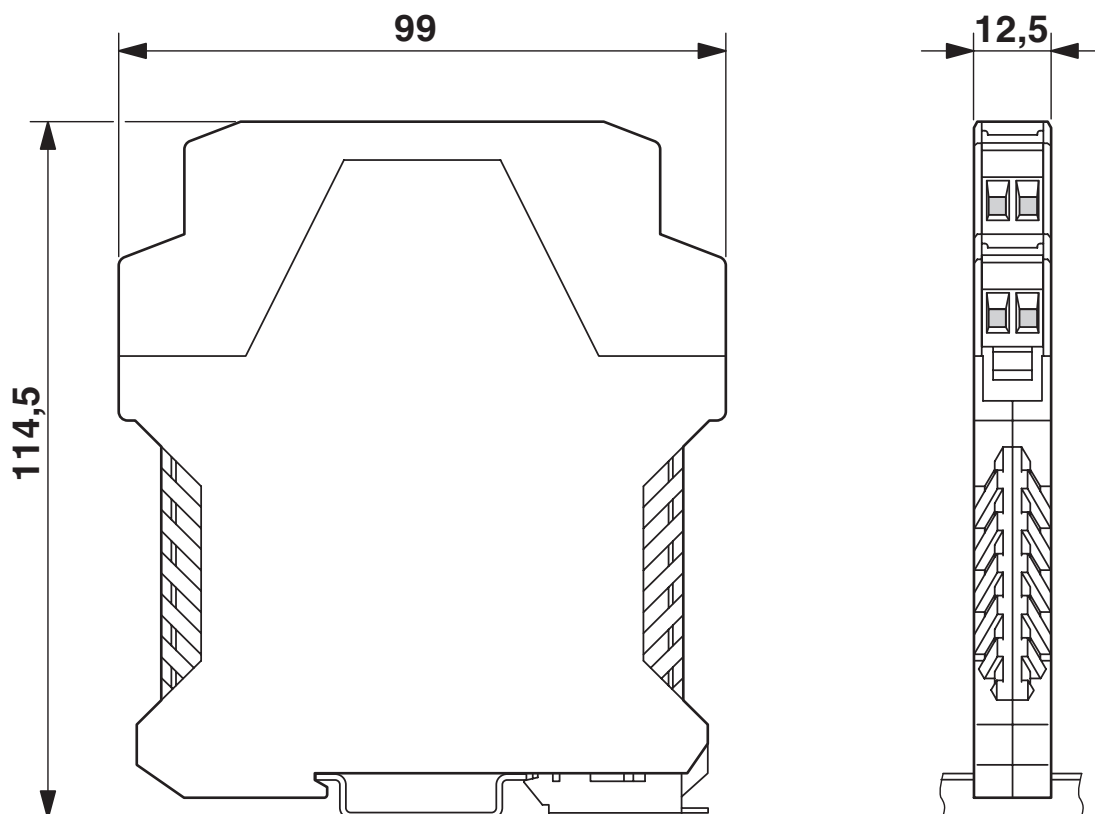


Drawings

Circuit diagram



Dimensional drawing



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Classifications

ECLASS

ECLASS-11.0	27210120
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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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Accessories

DB 50- 90 GY - Wire bridge

2820929

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Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm², loop length: 90 mm, ferrule length: 8 mm, color: gray



DB 50- 90 BK - Wire bridge

2820916

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Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm², loop length: 90 mm, ferrule length: 8 mm, color: black



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DB 50- 90 BU - Wire bridge

2821180

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Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm², loop length: 90 mm, ferrule length: 8 mm, color: blue



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