

## Signal conditioner - MCR-C-U-I- 4-DC - 2814537

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MCR 3-way isolating amplifier, for electrical isolation of analog signals, input signal: 0 V ... 10 V, output signal: 4 mA ... 20 mA


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

### Why buy this product

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



### Key Commercial Data

Packing unit	5 STK
GTIN	 4 017918 156220
GTIN	4017918156220

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
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#### Input data

Description of the input	Voltage input
Number of inputs	1

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## Technical data

### Input data

Configurable/programmable	no
Voltage input signal	0 V ... 10 V
max. input voltage	30 V
Input resistance of voltage input	100 kΩ

### Output data

Output name	Current output
Number of outputs	1
Configurable/programmable	no
Current output signal	4 mA ... 20 mA
Max. output current	30 mA
Load/output load current output	≤ 500 Ω
Linear transmission range (in reference to the output range end value)	-5 % ... 105 %

### Power supply

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

### Connection data

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

### General

No. of channels	1
Maximum transmission error	≤ 0.3 % (of final value)
Transmission error, typical	< 0.2 % (of final value)
Maximum temperature coefficient	< 0.015 %/K
Limit frequency (3 dB)	30 Hz
Step response (10-90%)	11 ms
Protective circuit	Transient protection
Test voltage, input/output/supply	1.5 kV (50 Hz, 1 min.)
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any
Conformance	CE-compliant

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## Technical data

### Standards and Regulations

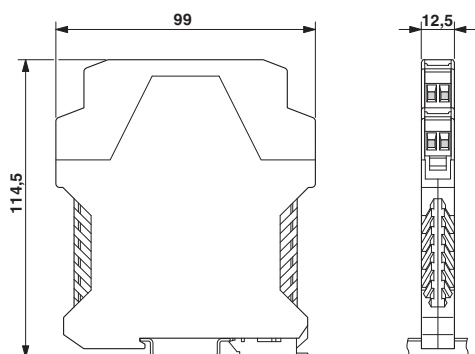
Connection in acc. with standard	CUL
Conformance	CE-compliant

### Environmental Product Compliance

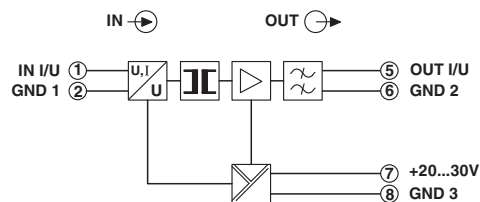
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing



Circuit diagram



## Approvals

### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

### Approval details


UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
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### Approvals

EAC		RU C- DE.A*30.B.01082
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>
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