

Signal conditioner - MCR-C-U-U-DC - 2814469

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MCR 3-way isolating amplifier, for electrical isolation of analog signals, input signal: 0 ... 10 V/(+/-)10 V, output signal: 0 ... 10 V/(+/-)10 V

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

Your advantages

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 156169
GTIN	4017918156169
Weight per Piece (excluding packing)	82.160 g
Custom tariff number	85437090
Country of origin	Germany

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

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Technical data

Dimensions

Depth	114.5 mm
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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
Configurable/programmable	no
Voltage input signal	0 V ... 10 V
	-10 V ... 10 V
max. input voltage	30 V
Input resistance of voltage input	100 kΩ

Output data

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

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 ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Stripping length	8 mm
Screw thread	M3

General

No. of channels	1
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Technical data

General

Maximum transmission error	$\leq 0.2\%$ (of final value)
Transmission error, typical	$< 0.1\%$ (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

Standards and Regulations

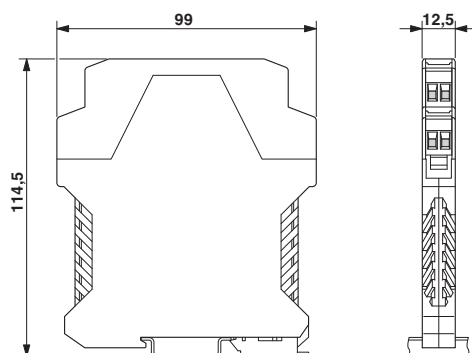
Connection in acc. with standard	CUL
Conformance	CE-compliant

Environmental Product Compliance

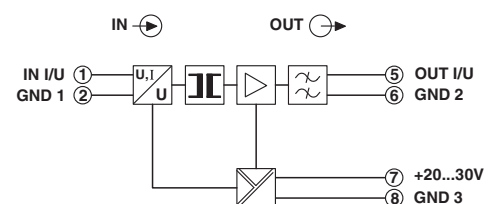
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27210120
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