

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 illustration shows version MCR-C-I-I-00-DC

Product Features

- ☒ 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
Weight per Piece (excluding packing)	82.16 GRM
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
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
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
Maximum transmission error	≤ 0.2 % (of final value)
Transmission error, typical	< 0.1 % (of final value)

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Technical data

General

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

Classifications

eCl@ss

eCl@ss 4.0	27210120
eCl@ss 4.1	27210120
eCl@ss 5.0	27210120
eCl@ss 5.1	27210120
eCl@ss 6.0	27210120
eCl@ss 7.0	27210120
eCl@ss 8.0	27210120

ETIM

ETIM 2.0	EC001485
ETIM 3.0	EC001485
ETIM 4.0	EC001485
ETIM 5.0	EC002653

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Approvals

Approvals

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Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized



cUL Recognized



EAC

cULus Recognized



Accessories

Accessories

Bridge

Wire bridge - DB 50- 90 GY - 2820929

Wire bridge, Color: gray

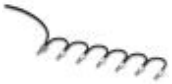


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Accessories

Wire bridge - DB 50- 90 BK - 2820916

Wire bridge, Color: black



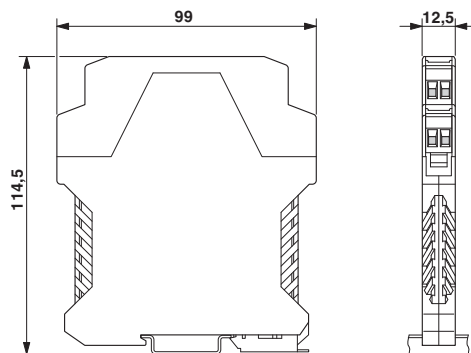
Wire bridge - DB 50- 90 BU - 2821180

Wire bridge, Color: blue



Drawings

Dimensional drawing



Circuit diagram

