

Signal conditioner - MCR-C-I-U- 4-DC - 2814511

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

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

Why buy this product

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



Key commercial data

Packing unit	5 pc
GTIN	 4 017918 156206
Weight per Piece (excluding packing)	74.69 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
Depth	114.5 mm

Ambient conditions

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

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Technical data

Input data

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

Output data

Configurable/programmable	no
Voltage output signal	0 V ... 10 V
Max. output voltage	15 V
Load/output load voltage output	$\geq 10 \text{ k}\Omega$
Linear transmission range (in reference to the output range end value)	-10 % ... 110 %

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/kcmil min.	24
Conductor cross section AWG/kcmil max.	14
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Stripping length	8 mm
Screw thread	M3

General

No. of channels	1
Maximum transmission error	$\leq 0.3 \%$ (of final value)
Transmission error, typical	< 0.2 % (of final value)
Max. scale factor error	< 0.3 % (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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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	EC001485

UNSPSC

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

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

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Approvals

cUL Recognized 

GOST 

cULus Recognized 

Accessories

Accessories

Bridge

Wire bridge - DB 50- 90 GY - 2820929

Wire bridge, Color: gray



Wire bridge - DB 50- 90 BK - 2820916

Wire bridge, Color: black



Wire bridge - DB 50- 90 BU - 2821180

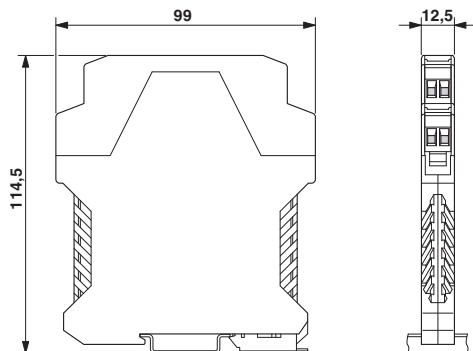
Wire bridge, Color: blue



Drawings

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Dimensioned drawing



Circuit diagram

