

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 | 5 pc |
| GTIN | |
| GTIN | 4017918156169 |
| Weight per Piece (excluding packing) | 74.960 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 |
|-------------------------|---------------------------------------------------------------------------|

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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Technical data

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 |
| Maximum transmission error | ≤ 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 |

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Technical data

General

| | |
|-------------------|-----------------------------|
| Housing material | Polyamide PA non-reinforced |
| Mounting position | any |
| Conformance | CE-compliant |

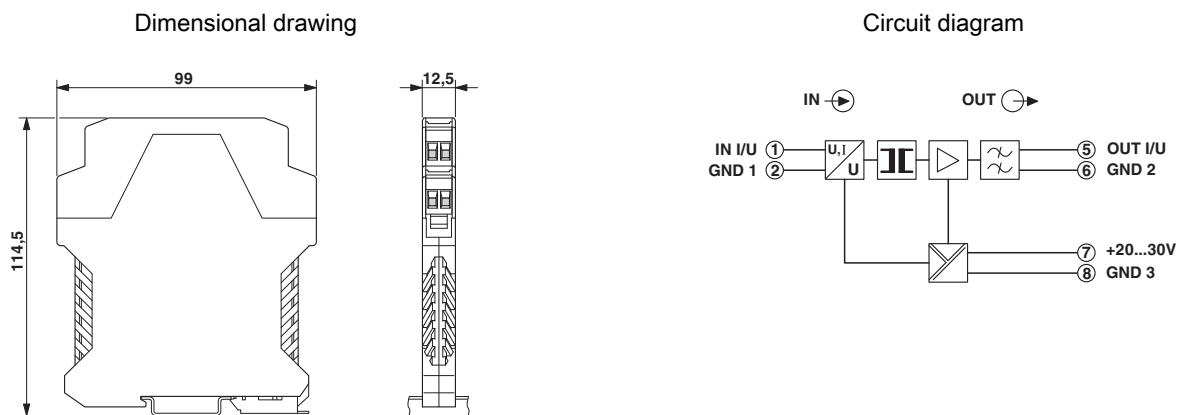
Standards and Regulations

| | |
|----------------------------------|--------------|
| 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



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27210120 |
| eCl@ss 4.1 | 27210120 |
| eCl@ss 5.0 | 27210120 |
| eCl@ss 5.1 | 27210100 |
| eCl@ss 6.0 | 27210100 |
| eCl@ss 7.0 | 27210120 |
| eCl@ss 8.0 | 27210120 |
| eCl@ss 9.0 | 27210120 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC002653 |
| ETIM 5.0 | EC002653 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 6.0 | EC002653 |
|----------|----------|

UNSPSC

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

Approvals

Approvals

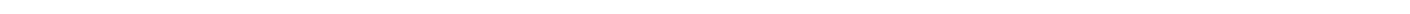


Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized



Ex Approvals



Approval details

| | | | |
|---------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|---------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

| | | | |
|----------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|----------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

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|-----|--|--------------------------|
| EAC | | RU C- DE.A*30.B.01082 |
|-----|--|--------------------------|

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| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm |
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Accessories

Accessories

Bridge

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

Accessories

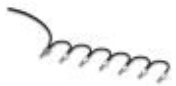
Wire bridge - DB 50- 90 GY - 2820929

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

