

## Signal conditioner - MCR-C-I-I-00-DC - 2814508

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MCR 3-way signal conditioner, for electrical isolation of analog signals, input signal: 0(4) mA ... 20 mA, output signal: 0(4) mA ... 20 mA. Replacement part: 2901998 MINI MCR-2-I-I.

### Your advantages

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



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 5 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4017918156190                                                                        |

### 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 |
|---------------------------------|------------------|

#### Input data

|                           |               |
|---------------------------|---------------|
| Description of the input  | Current input |
| Number of inputs          | 1             |
| Configurable/programmable | no            |

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## Technical data

### Input data

|                                |                |
|--------------------------------|----------------|
| Current input signal           | 0 mA ... 20 mA |
|                                | 4 mA ... 20 mA |
| Max. input current             | 50 mA          |
| Input resistance current input | 50 $\Omega$    |

### Output data

|                                                                        |                   |
|------------------------------------------------------------------------|-------------------|
| Output name                                                            | Current output    |
| Number of outputs                                                      | 1                 |
| Configurable/programmable                                              | no                |
| Current output signal                                                  | 0 mA ... 20 mA    |
|                                                                        | 4 mA ... 20 mA    |
| Max. output current                                                    | 30 mA             |
| Load/output load current output                                        | $\leq 500 \Omega$ |
| Linear transmission range (in reference to the output range end value) | 0 % ... 105 %     |

### Power supply

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

### General

|                                   |                                |
|-----------------------------------|--------------------------------|
| No. of channels                   | 1                              |
| 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                            |

### Standards and Regulations

|                                  |              |
|----------------------------------|--------------|
| Connection in acc. with standard | CUL          |
| Conformance                      | CE-compliant |

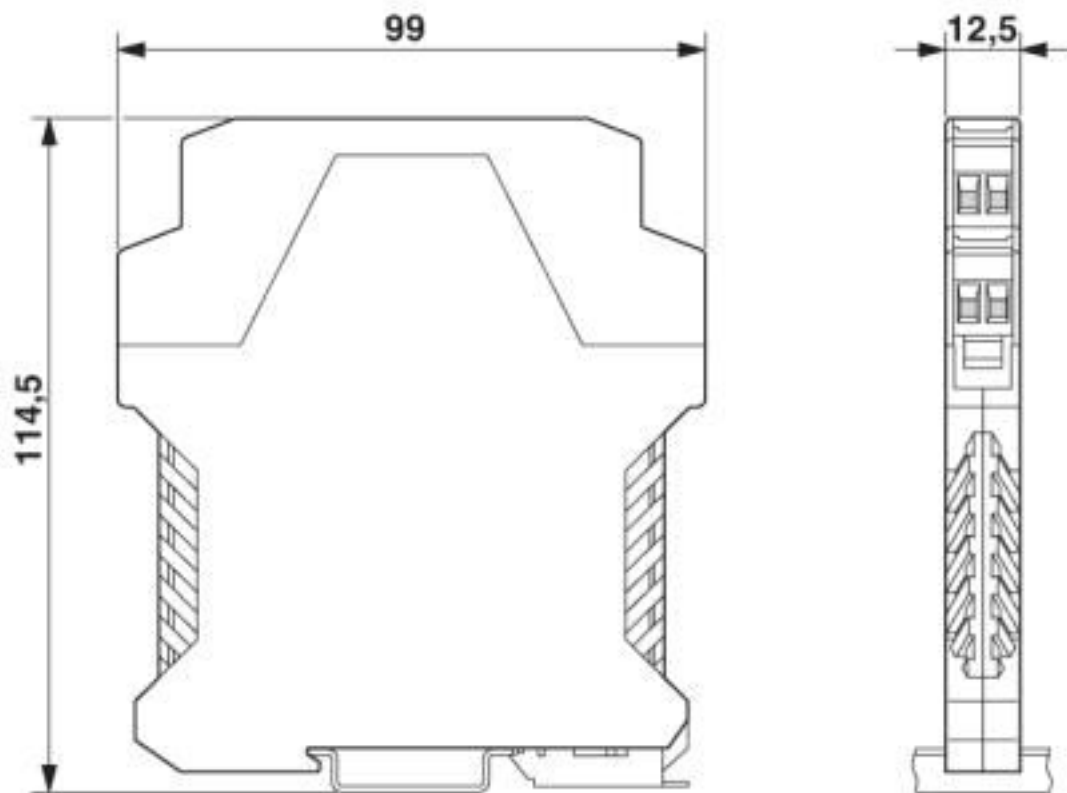
### Environmental Product Compliance

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

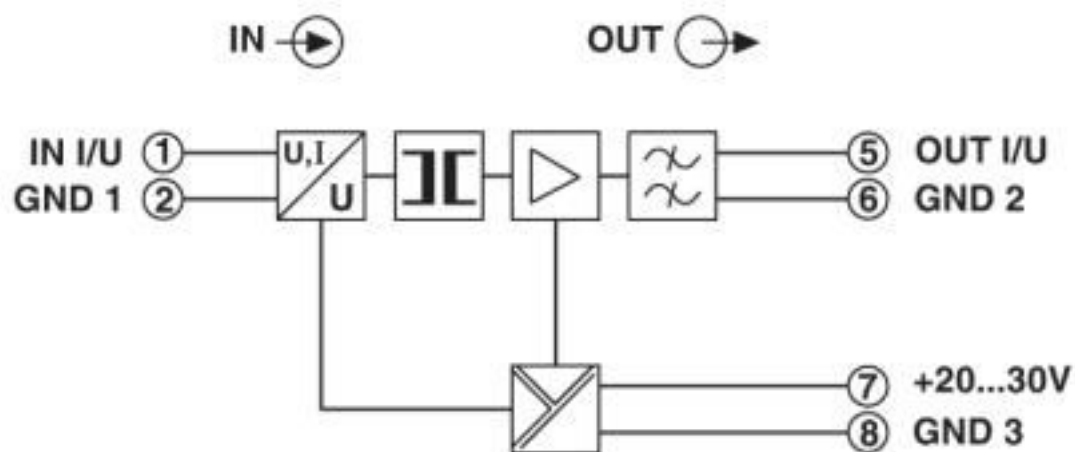
## Drawings

## Signal conditioner - MCR-C-I-I-00-DC - 2814508

Dimensional drawing



Circuit diagram



### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27210120 |
| eCl@ss 4.0    | 27210100 |
| eCl@ss 4.1    | 27210100 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27210100 |
| 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 |
| ETIM 6.0 | EC002653 |
| ETIM 7.0 | EC002653 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11     | 39121008 |
| UNSPSC 12.01  | 39121008 |
| UNSPSC 13.2   | 39121008 |
| UNSPSC 18.0   | 39121008 |
| UNSPSC 19.0   | 39121008 |
| UNSPSC 20.0   | 39121008 |
| UNSPSC 21.0   | 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

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### Approvals

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

EAC



RU\*DE.\*08.B.01536/19

cULus Recognized



### Accessories

#### Accessories

##### Loop bridge

##### Wire bridge - DB 50- 90 GY - 2820929

Flexible wire loop bridge, 50-pos., conductor cross-section:  $0.5 \text{ mm}^2$ , loop length: 90 mm, ferrule length: 8 mm, color: gray



##### Wire bridge - DB 50- 90 BK - 2820916

Flexible wire loop bridge, 50-pos., conductor cross-section:  $0.5 \text{ mm}^2$ , loop length: 90 mm, ferrule length: 8 mm, color: black



##### Wire bridge - DB 50- 90 BU - 2821180

Flexible wire loop bridge, 50-pos., conductor cross-section:  $0.5 \text{ mm}^2$ , loop length: 90 mm, ferrule length: 8 mm, color: blue



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