

## Signal conditioner - MCR-CLP-UI-I-4-NC - 2814252

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MCR loop powered isolators, for analog signal isolation, with unconfigured input, output signal: 4..20 mA

### Your advantages

- No separate supply voltage
- 4  
20 mA output
- Zero/span adjustment ( $\pm 2\%$ )
- Configurable input
- Electrically isolated input



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 309183
GTIN	4017918309183

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 65 °C
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#### Input data

Description of the input	Current input
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## Technical data

### Input data

Number of inputs	1
Configurable/programmable	Yes
Current input signal	4 mA ... 20 mA (please indicate if different setting when ordering)
max. input voltage	30 V
Max. input current	50 mA
Input resistance of voltage input	1 MΩ
Input resistance current input	50 Ω

### Output data

Output name	Current output
Number of outputs	1
Configurable/programmable	no
Current output signal	4 mA ... 20 mA
Max. output current	35 mA
Load/output load current output	≤ 800 Ω (at U <sub>B</sub> = 24 V; otherwise: (U <sub>B</sub> - 8 V) / 20 mA)

### Power supply

Designation	Loop-powered
Supply voltage range	8 V DC ... 30 V DC
Voltage dissipation	8 V

### Connection data

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Stripping length	8 mm
Screw thread	M3

### General

No. of channels	1
Maximum transmission error	≤ 0.1 % (of final value)
Transmission error, typical	0.05 %
Maximum temperature coefficient	≤ 0.01 %/K
Temperature coefficient, typical	0.005 %/K
Limit frequency (3 dB)	30 Hz
Alignment zero	± 2 % (of final value)
Alignment span	± 2 % (of final value)
Step response (10-90%)	11 ms
Test voltage input/output	1.5 kV (50 Hz, 1 min.)

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## Technical data

### General

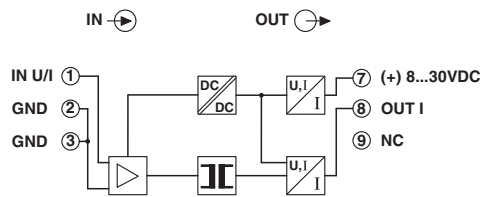
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any
Conformance	CE-compliant
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D or Non-Hazardous Locations

### Standards and Regulations

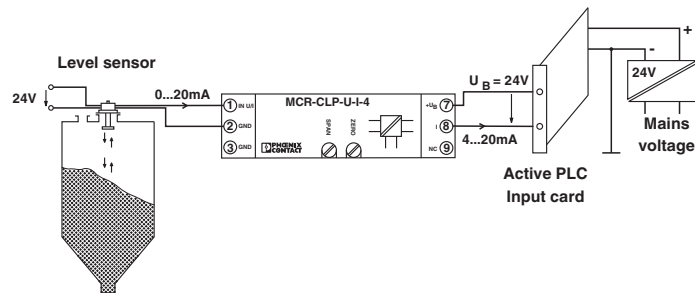
Connection in acc. with standard	CUL
Conformance	CE-compliant
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D or Non-Hazardous Locations

## Drawings

Circuit diagram



Application drawing



Application example: Level measurement

- 1 = Level sensor
- 2 = Mains voltage
- 3 = Control unit

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