

# MCR-FL-C-UI-2UI-DCI-NC - Input signal conditioner



2814867

<https://www.phoenixcontact.com/us/products/2814867>

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MCR signal multiplier, for doubling and electrical isolation of analog signals, unconfigured



## Your advantages

- Calibrated selectable input and output signals
- 4-way isolation

## Commercial data

Item number	2814867
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1XXX
GTIN	4017918820336
Weight per piece (including packing)	137.6 g
Weight per piece (excluding packing)	117.2 g
Customs tariff number	85437090
Country of origin	DE

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## Technical data

### Product properties

Product type	Input signal conditioner
No. of channels	2

### Electrical properties

Electrical isolation between input and output	yes
Limit frequency (3 dB)	30 Hz
Maximum power dissipation for nominal condition	15 mW
Test voltage, input/output/supply	1.5 kV AC (50 Hz, 60 s)
Protective circuit	Transient protection
Step response (10-90%)	12 ms
Maximum temperature coefficient	< 0.015 %/K
Temperature coefficient, typical	0.0075 %/K
Maximum transmission error	≤ 0.15 % (of final value)
Transmission error, typical	0.05 % (of final value)

### Supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	< 25 mA

### Input data

#### Signal

Description of the input	Current input
Number of inputs	1
Configurable/programmable	Yes, unconfigured
Current input signal	0 mA ... 24 mA (freely selectable in 0.1 mA steps)
Max. current input signal	50 mA
Input resistance current input	50 Ω
Voltage measuring range	min. 4 V
Current measuring range	min. 8 mA

#### Signal

Description of the input	Voltage input
Configurable/programmable	Yes, unconfigured
Voltage input signal	0 V ... 12 V (freely selectable in 0.1 V steps)
Max. voltage input signal	30 V
Input resistance of voltage input	200 kΩ
Voltage measuring range	min. 4 V
Current measuring range	min. 8 mA

### Output data

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Signal: I

Number of outputs	2
Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V DC ... 10 V DC
	2 V DC ... 10 V DC
	0 V DC ... 5 V DC
	1 V DC ... 5 V DC
Current output signal	see order key / configuration table
Max. current output signal	35 mA
Load/output load current output	$\leq 600 \Omega$

Signal: U

Configurable/programmable	Yes, unconfigured
Voltage output signal	see order key / configuration table
Max. voltage output signal	15 V
Load/output load voltage output	$\geq 10 \text{ k}\Omega$

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14

## Dimensions

Dimensional drawing	
Width	17.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

## Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
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Ambient temperature (operation)	-25 °C ... 55 °C
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## Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D or Non-Hazardous Locations
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

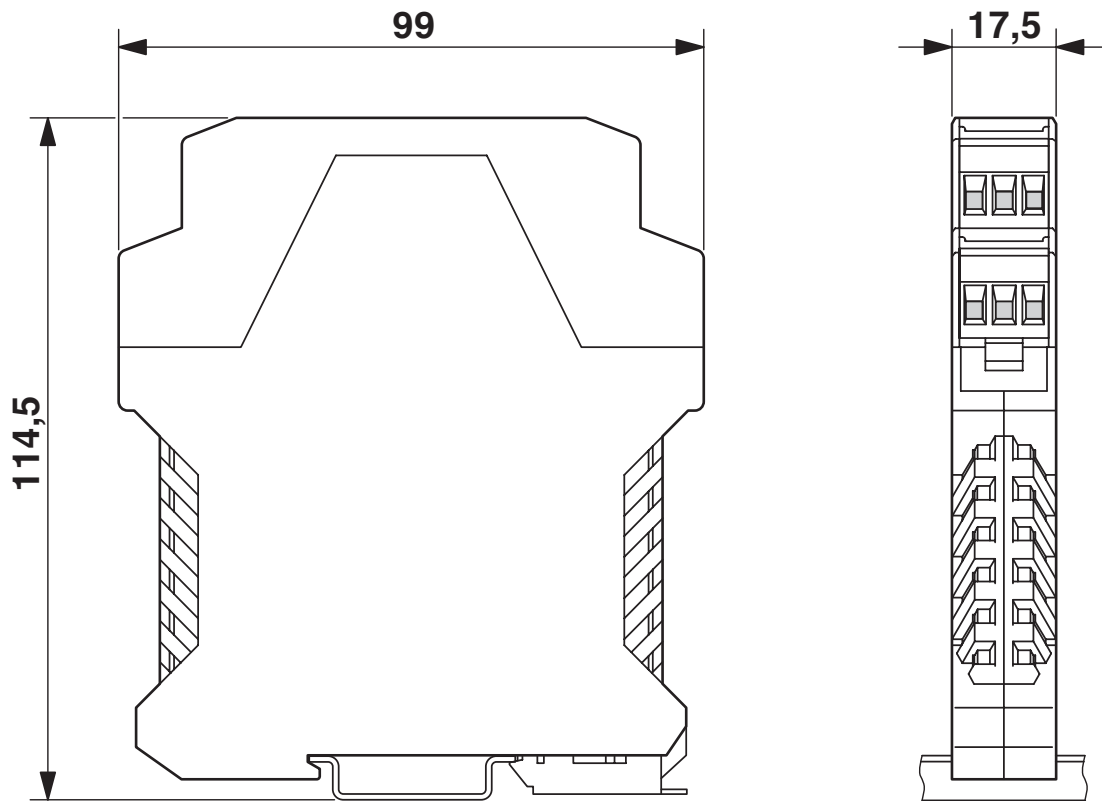
# MCR-FL-C-UI-2UI-DCI-NC - Input signal conditioner

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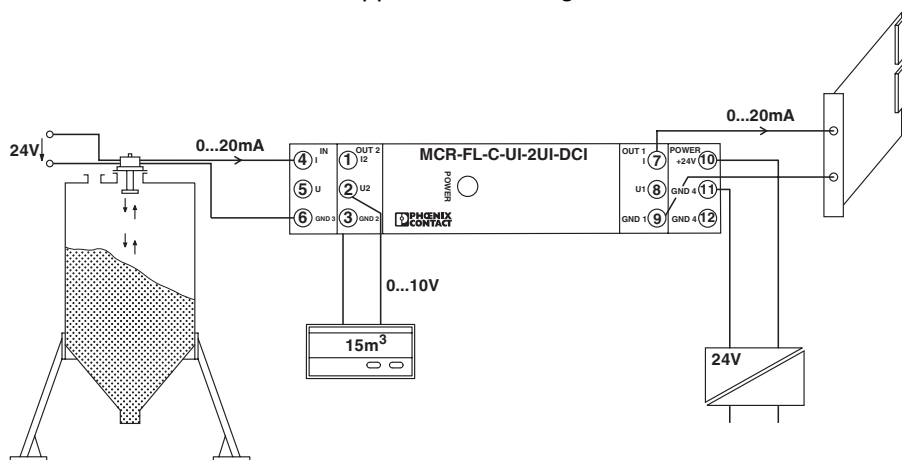
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## Drawings

Dimensional drawing



Application drawing



Application example: - Level measurement with subsequent signal multiplication

1 = filling level sensor

2 = control

3 = mains voltage

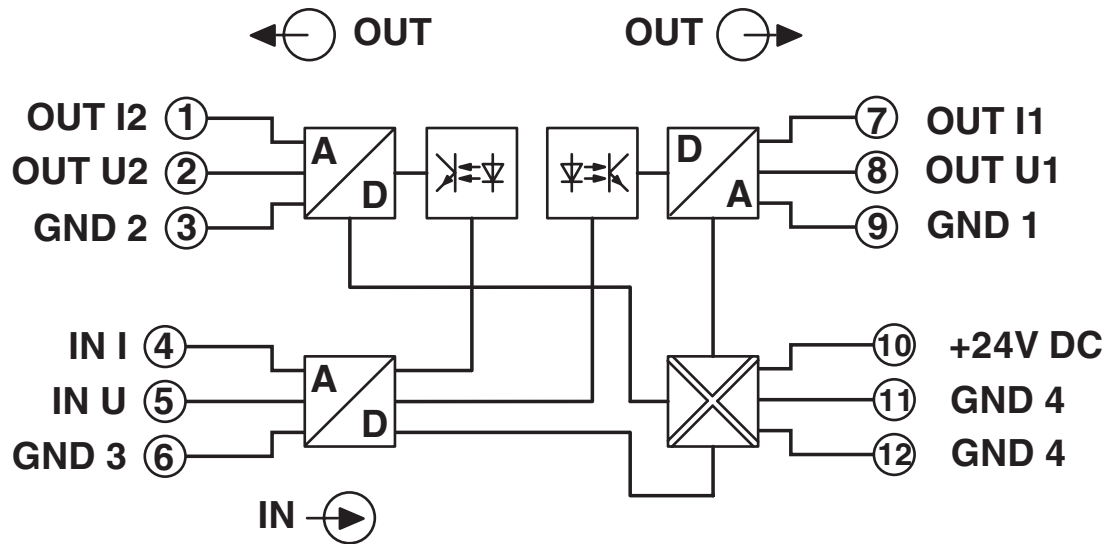
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Circuit diagram



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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)

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