

## Signal conditioner - MCR-FL-C-UI-2UI-DCI-NC - 2814867

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

### Why buy this product

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



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 820336
Weight per Piece (excluding packing)	117.2 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	17.5 mm
Height	99 mm
Depth	114.5 mm

#### Ambient conditions

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

#### Input data

Description of the input	Current input
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## Technical data

### Input data

Configurable/programmable	Yes, unconfigured
Current input signal	0 mA ... 24 mA (freely selectable in 0.1 mA steps)
Max. input current	50 mA
Input resistance current input	50 Ω
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. input voltage	30 V
Input resistance of voltage input	200 kΩ

### Output data

Output name	Current output
Configurable/programmable	Yes, unconfigured
Current output signal	see order key / configuration table
Max. output current	35 mA
Load/output load current output	≤ 600 Ω
Output name	Voltage output
Configurable/programmable	Yes, unconfigured
Voltage output signal	see order key / configuration table
Max. output voltage	15 V
Load/output load voltage output	≥ 10 kΩ

### Power supply

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

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

### General

No. of channels	2
Maximum transmission error	≤ 0.15 % (of final value)
Transmission error, typical	0.05 % (of final value)
Maximum temperature coefficient	< 0.015 %/K
Temperature coefficient, typical	0.0075 %/K

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## Technical data

### General

Limit frequency (3 dB)	30 Hz
Step response (10-90%)	12 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
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D or Non-Hazardous Locations

## 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

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UL Recognized / cUL Recognized / GOST / cULus Recognized

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## Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

## Approval details

UL Recognized

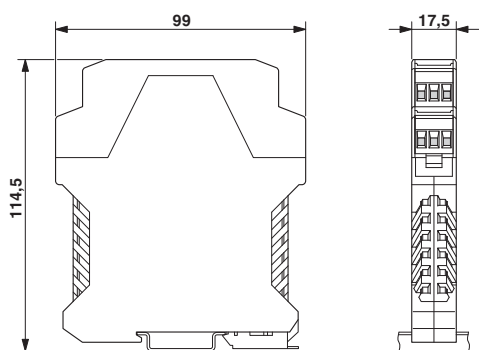
cUL Recognized

GOST

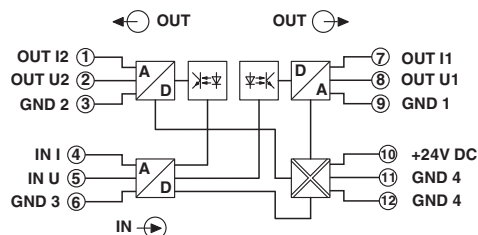
cULus Recognized

## Drawings

Dimensioned drawing

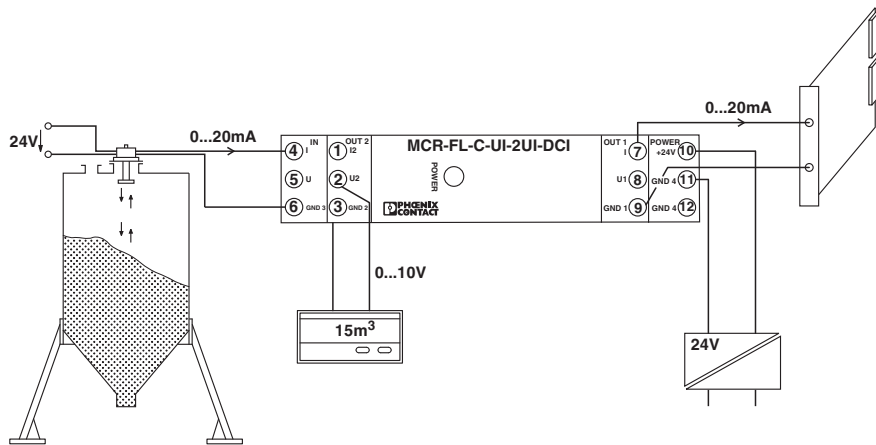


Circuit diagram



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Application drawing



Application example: - Level measurement with subsequent signal multiplication

1 = filling level sensor

2 = control

3 = mains voltage