

# 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 STK
GTIN	 4 017918 820336
GTIN	4017918820336
Weight per Piece (excluding packing)	117.200 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

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## Technical data

### Input data

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. 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
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. 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	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

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## Technical data

### Connection data

Screw thread	M3
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### 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
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

### Standards and Regulations

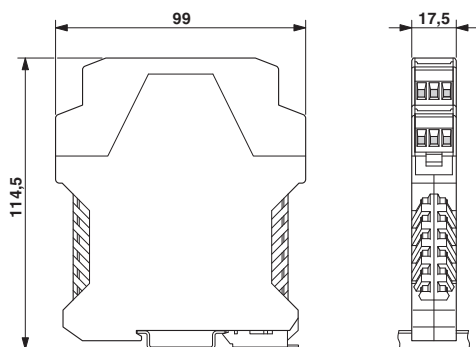
Connection in acc. with standard	CUL
Conformance	CE-compliant
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D or Non-Hazardous Locations

### Environmental Product Compliance

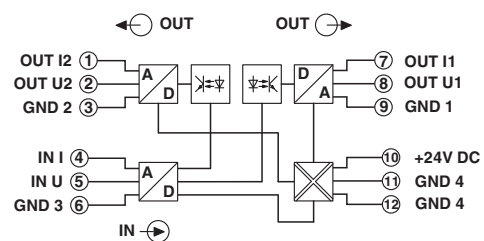
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing

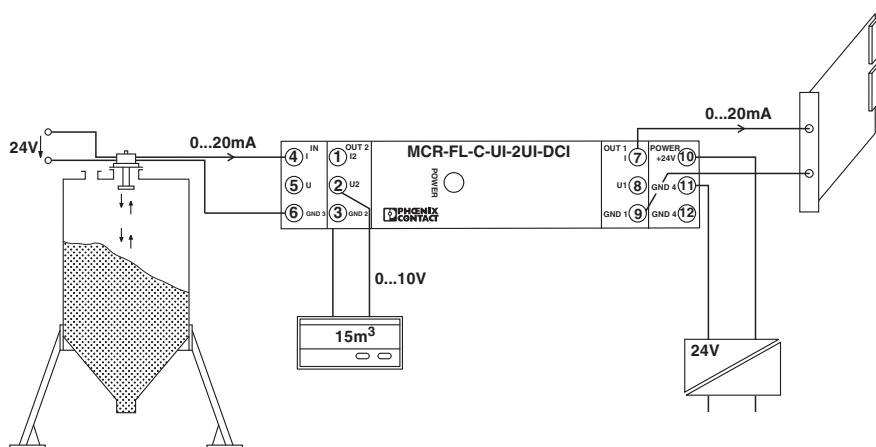


Circuit diagram



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Application drawing



Application example: - Level measurement with subsequent signal multiplication

1 = filling level sensor

2 = control

3 = mains voltage

## 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
eCl@ss 9.0	27210120

ETIM

ETIM 4.0	EC002653
ETIM 5.0	EC002653
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

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## Approvals

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### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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### Ex Approvals

UL Listed / cUL Listed / cULus Listed

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### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
EAC			EAC-Zulassung
cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	

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