

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)	139.3 GRM
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
Number of inputs	1

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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
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 ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Stripping length	8 mm
Screw thread	M3

General

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Technical data

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

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 2.0	EC001485
ETIM 3.0	EC001485
ETIM 4.0	EC001485
ETIM 5.0	EC002653

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008

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Classifications

UNSPSC

UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Approvals

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Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized

cUL Recognized

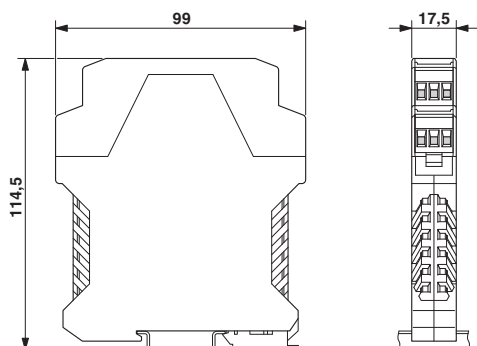
EAC

cULus Recognized

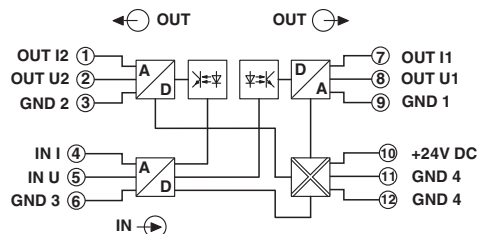
Drawings

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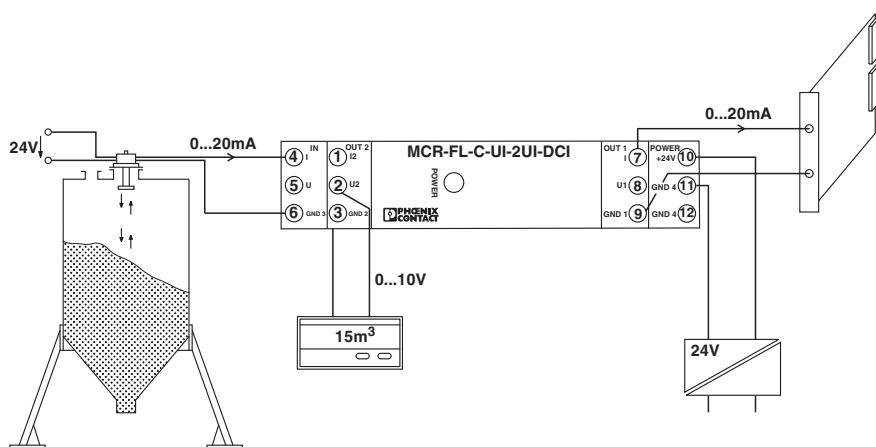
Dimensional drawing



Circuit diagram



Application drawing



Application example: - Level measurement with subsequent signal multiplication

1 = filling level sensor

2 = control

3 = mains voltage