

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

Product Features

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



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	139.2 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
-------------------------	---

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

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

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 k Ω

Output data

Output name	Current output
Number of inputs	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	$\leq 600 \Omega$
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	$\geq 10 \text{ k}\Omega$

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

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

Technical data

Connection data

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

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

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	EC002653

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

Classifications

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

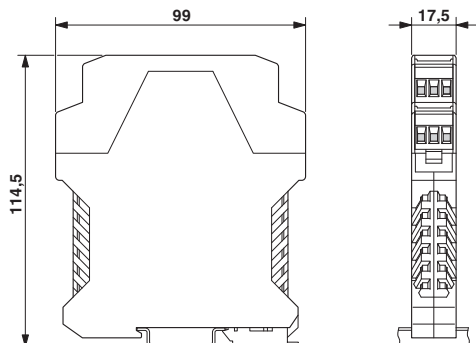
EAC

cULus Recognized 

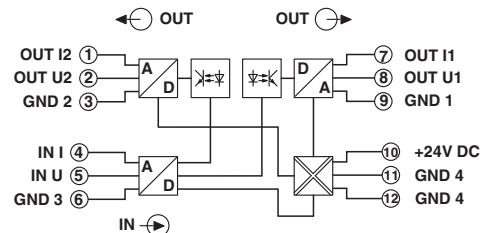
Drawings

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

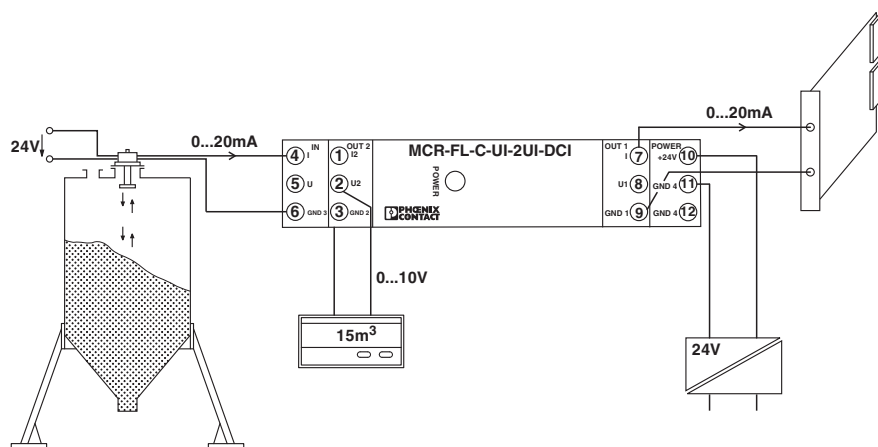
Dimensional drawing



Circuit diagram



Application drawing



Application example: - Level measurement with subsequent signal multiplication

1 = filling level sensor

2 = control

3 = mains voltage