

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



2814854
<https://www.phoenixcontact.com/in/products/2814854>

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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	2814854
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CK1
Product key	CK1811
Catalog page	Page 130 (C-7-2015)
Weight per piece (including packing)	138.4 g
Weight per piece (excluding packing)	138.4 g
Customs tariff number	85437090
Country of origin	DE

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Technical data

Product properties

Product type	Signal duplicator
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, preconfigured
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
Current measuring range	min. 8 mA
Supply voltage	24 V DC

Signal

Description of the input	Voltage input
Configurable/programmable	Yes, preconfigured
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

Output data

Signal:

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Number of outputs	2
Configurable/programmable	Yes, preconfigured
Voltage output signal	0 V DC ... 10 V DC (refer to the order key)
	2 V DC ... 10 V DC
	0 V DC ... 5 V DC
	1 V DC ... 5 V DC
Max. voltage output signal	15 V
Load/output load voltage output	$\geq 10 \text{ k}\Omega$

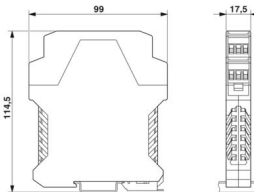
Signal:

Configurable/programmable	Yes, preconfigured
Current output signal	0 mA ... 20 mA (refer to the order key)
	4 mA ... 20 mA
	0 mA ... 10 mA
Max. current output signal	35 mA
Load/output load current output	$\leq 600 \Omega$

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
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
Ambient temperature (operation)	-25 °C ... 55 °C

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Approvals

CE	
Certificate	CE-compliant
UL, USA/Canada	
Identification	Class I, Div. 2, Groups A, B, C, D or Non-Hazardous Locations

Mounting

Mounting type	DIN rail mounting
Mounting position	any

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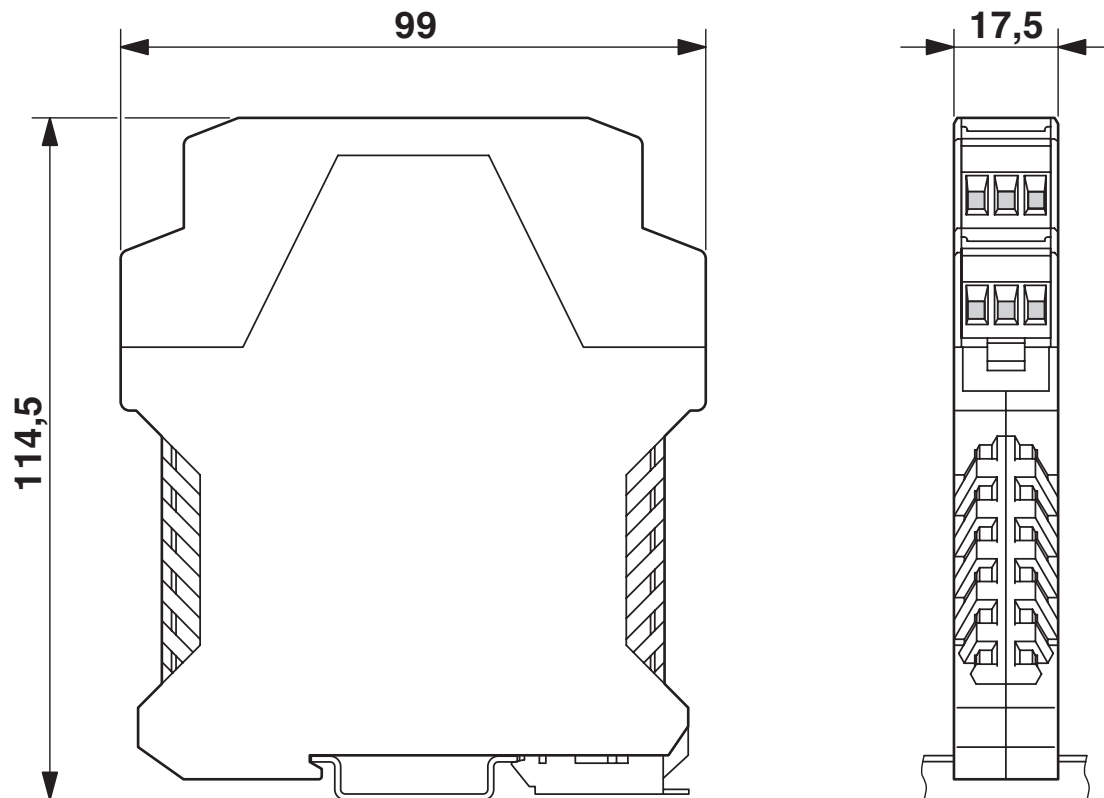
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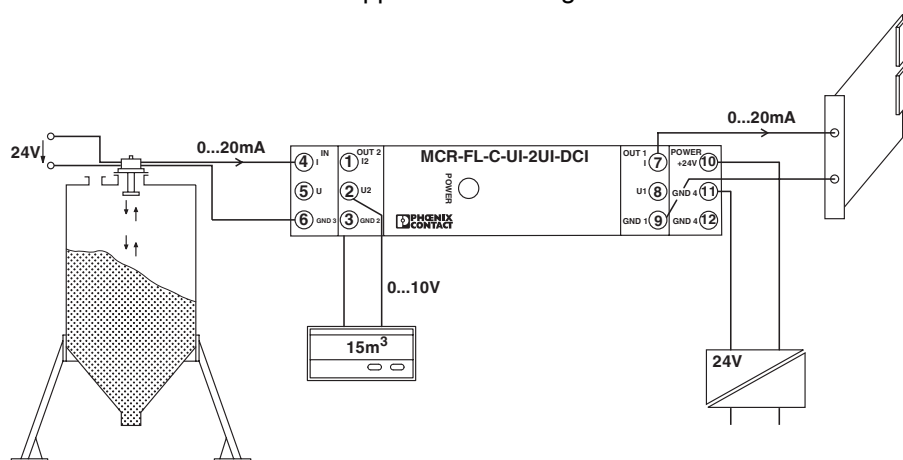


Drawings

Dimensional drawing



Application drawing



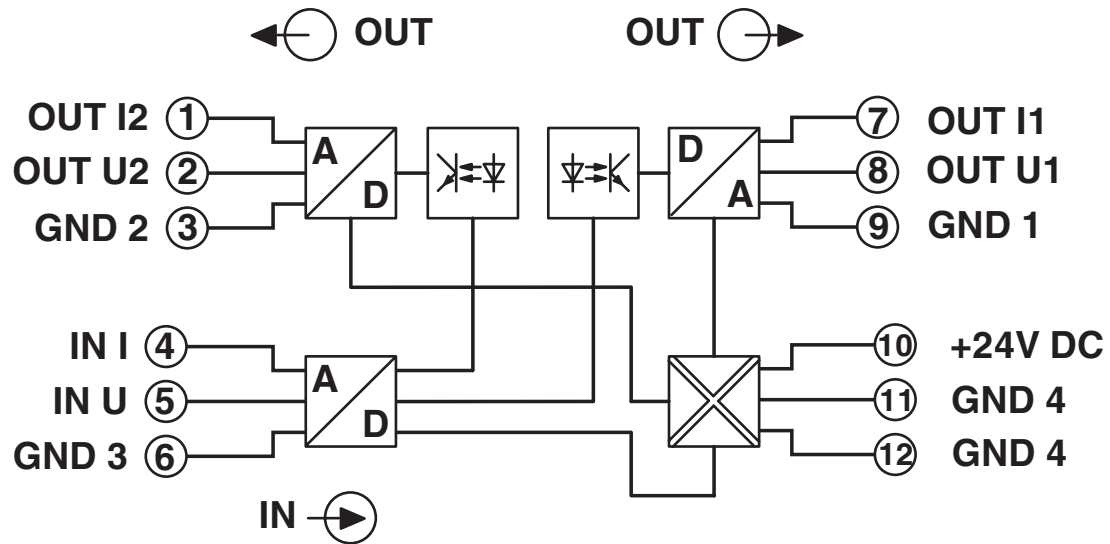
Application example: - Level measurement with subsequent signal multiplication

1 = filling level sensor

2 = control

3 = mains voltage

Circuit diagram



Environmental product compliance

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.)	No substance above 0.1 wt%

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PHOENIX CONTACT (I) Pvt. Ltd.
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420
info@phoenixcontact.co.in