

Phoenix | 菲尼克斯 2810913 PDF



深圳创唯电子有限公司

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Signal conditioner - MCR-C-UI-UI-DCI - 2810913

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MCR 3-way signal conditioner, with configurable input/output, for the electrical isolation of analog signals, preconfigured. For information on permitted signal combinations, please refer to the data sheet. Replacement item: 2811284 MACX MCR-UI-UI.

Product Description

The MCR-C-UI-UI(-450)-DCI(-NC) 3-way signal conditioner is used to electrically isolate and convert analog signals. It ensures the electrical isolation of standard analog signals. The module input and output are electrically isolated and supplied by the mains via integrated DC/DC converters (3-way isolation).

A green power LED indicates the required auxiliary energy. It is therefore clearly visible whether auxiliary energy is available.

The MCR module ensures the safe decoupling of a sensor circuit from the evaluation circuit and therefore also prevents any mutual interference between multiple sensor circuits.

The 3-way isolation means that the modules can be used universally, both on site or in the vicinity of the controller for signal conversion and electrical isolation, and along the transmission path to bridge high load resistance values.

Signals are converted by means of an inductive transmission method. In addition, a filter connected downstream of the transmitter reduces possible interference.



Key Commercial Data

Packing unit	1 pc
Custom tariff number	8543709990
Sales Key	CK1811
Note	Made to Order (non-returnable)

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)	-20 °C ... 65 °C
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Input data

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Technical data

Input data

Number of inputs	1
Configurable/programmable	Yes, preconfigured
Voltage input signal	0 V ... 10 V (please indicate if different setting when ordering)
max. input voltage	30 V
Max. input current	50 mA
Input resistance of voltage input	1 MΩ
Input resistance current input	50 Ω

Output data

Number of outputs	1
Configurable/programmable	Yes, preconfigured
Voltage output signal	0 V ... 10 V (please indicate if different setting when ordering)
Max. output voltage	15 V
Max. output current	30 mA
Load/output load voltage output	≥ 10 kΩ
Load/output load current output	≤ 500 Ω

Power supply

Supply voltage range	18 V DC ... 30 V DC
Max. current consumption	< 30 mA (without load)

General

No. of channels	1
Maximum transmission error	≤ 0.1 % (of final value)
Maximum temperature coefficient	0.0075 %/K
Limit frequency (3 dB)	30 Hz
Alignment zero	± 2 %
Alignment span	± 2 %
Step response (10-90%)	11 ms
Protective circuit	Transient protection
Test voltage input/output	1.5 kV (50 Hz, 1 min.)
Test voltage power supply/signal	1 kV (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2

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Technical data

Standards and Regulations

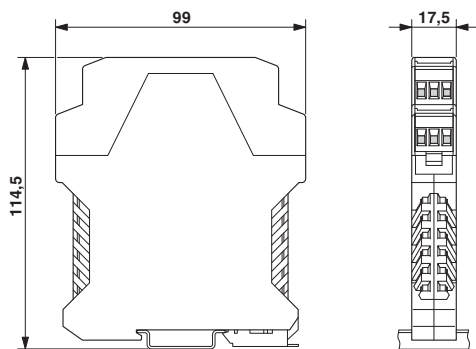
Connection in acc. with standard	CUL
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Environmental Product Compliance

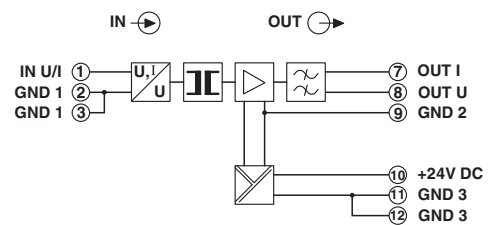
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

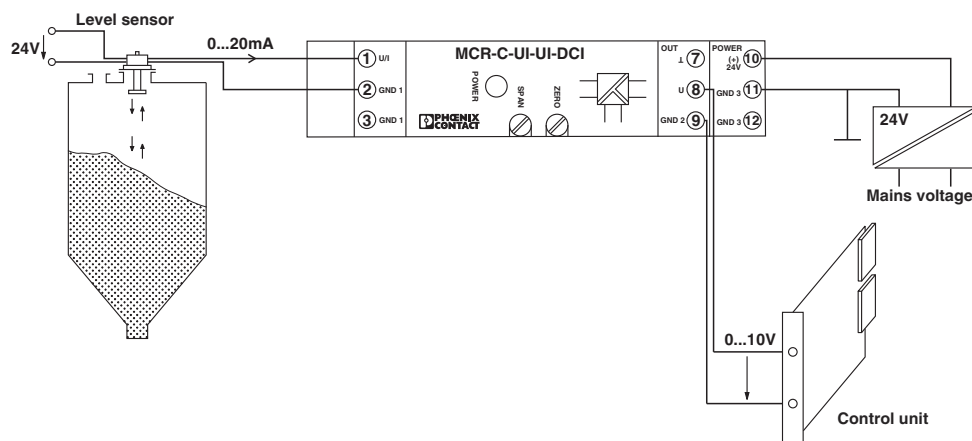
Dimensional drawing



Circuit diagram



Application drawing



Application example: Level measurement

Classifications

eCl@ss

eCl@ss 10.0.1	27210120
eCl@ss 11.0	27210120

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Classifications

eCl@ss

eCl@ss 4.0	27210100
eCl@ss 4.1	27210100
eCl@ss 5.0	27210100
eCl@ss 5.1	27210100
eCl@ss 6.0	27210100
eCl@ss 7.0	27210120
eCl@ss 9.0	27210120

ETIM

ETIM 4.0	EC002653
ETIM 6.0	EC002653
ETIM 7.0	EC002653

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008
UNSPSC 18.0	39121008
UNSPSC 19.0	39121008
UNSPSC 20.0	39121008
UNSPSC 21.0	39121008

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

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Approvals

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

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EAC



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