

## Signal conditioner - MCR-C-UI-UI-DCI-NC - 2810939

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MCR 3-way signal conditioner, with configurable input/output, for electrical isolation of analog signals, not configured

The illustration shows version MCR-C-UI-UI-DCI



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 118303
GTIN	4017918118303
Weight per Piece (excluding packing)	160.000 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)	-20 °C ... 65 °C
Degree of protection	IP20

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## Technical data

### Input data

Number of inputs	1
Configurable/programmable	Yes, standard configuration IN 0 ... 10 V, OUT 0 ... 10 V
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 M $\Omega$
Input resistance current input	50 $\Omega$

### Output data

Number of outputs	1
Configurable/programmable	Yes, unconfigured
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	$\geq 10$ k $\Omega$
Load/output load current output	$\leq 500$ $\Omega$

### Power supply

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

### Connection data

Connection method	Pluggable 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
Screw thread	M3

### General

No. of channels	1
Maximum transmission error	$\leq 0.1$ % (of final value)
Maximum temperature coefficient	0.0075 %/K
Limit frequency (3 dB)	30 Hz
Alignment zero	$\pm 2$ %
Alignment span	$\pm 2$ %

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## Technical data

### General

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

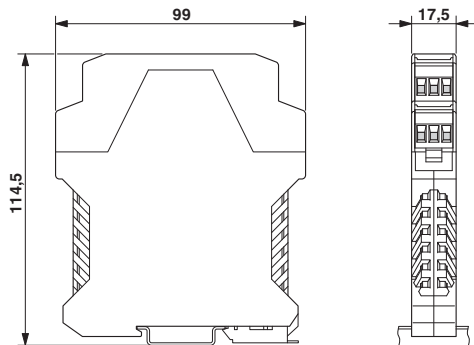
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Connection in acc. with standard	CUL

### Environmental Product Compliance

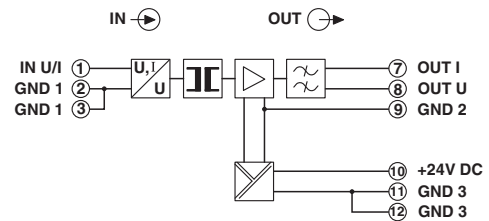
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing

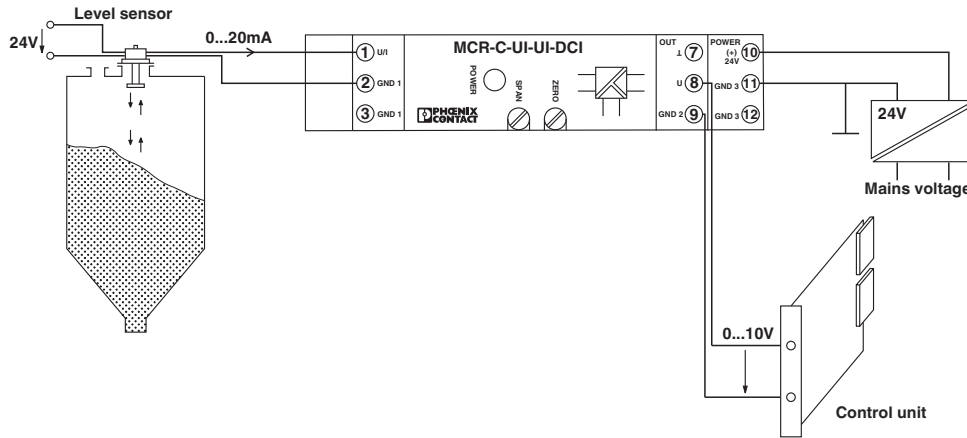


Circuit diagram



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Application drawing



Application example: Level measurement

## Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

## 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

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### Approvals

cULus Recognized



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