

# MINI MCR-SL-UI-UI-SP-NC

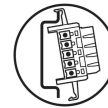
Order No.: 2864163

The illustration shows the versions with screw connection




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864163>

MCR 3-way isolating amplifier, I/O can be configured via DIP switches, for the electrical isolation of analog signals, with spring-cage connection, standard configuration



## Commercial data

GTIN (EAN)	 4 017918 974794
sales group	H520
Pack	1 pcs.
Customs tariff	85437090
Catalog page information	Page 352 (IF-2011)

## Product notes

WEEE/RoHS-compliant since:  
03/09/2006



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## Technical data

### Input data

Configurable/programmable	Yes, unconfigured
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Voltage input signal	0 V ... 10 V
	0 V ... 5 V
	1 V ... 5 V
	2 V ... 10 V
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Max. input voltage	30 V
Max. input current	50 mA
Input resistance of voltage input	Approx. 100 k $\Omega$
Input resistance current input	Approx. 50 $\Omega$

#### Output data

Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V ... 10 V
	0 V ... 5 V
	1 V ... 5 V
	2 V ... 10 V
Current output signal	0 mA ... 20 mA (please indicate if different setting when ordering)
	4 mA ... 20 mA
Max. output voltage	Approx. 12.5 V
Max. output current	28 mA
Load/output load voltage output	$\geq 10$ k $\Omega$
Load/output load current output	$< 500$ $\Omega$ (at 20 mA)

#### Power supply

Nominal supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (to bridge the supply voltage, the DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, Order No. 2869728) can be used. It can be snapped onto a 35 mm DIN rail according to EN 60715)
Max. current consumption	$< 19$ mA (Current output, at 24 V DC incl. load)
	$< 9$ mA (Voltage output, at 24 V DC incl. load)
Power consumption	$< 450$ mW (Current output)
	$< 200$ mW (Voltage output)

#### Connection data

Connection method	Spring-cage conn.
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 stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	8 mm

**General data**

No. of channels	1
Width	6.2 mm
Height	93.1 mm
Depth	102.5 mm
Maximum transmission error	≤ 0.1 % (of final value) < 0.4 % (Without adjustment)
Maximum temperature coefficient	< 0.01 %/K
Temperature coefficient, typical	< 0.002 %/K
Limit frequency (3 dB)	Approx. 100 Hz
Step response (10-90%)	Approx. 3.2 ms
Protective circuit	Transient protection
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20
Electrical isolation	Basic insulation according to EN 61010
Surge voltage category	II
Pollution degree	2
Rated insulation voltage	50 V AC/DC
Test voltage, input/output/supply	1.5 kV (50 Hz, 1 min.)
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2:2005
Color	green
Housing material	PBT
Mounting position	Any
Assembly instructions	The DIN rail bus connector (TBUS) can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
Conformance	CE-compliant
ATEX	Ex II 3 G Ex nA II T4 X

UL, USA / Canada	UL 508 Recognized
	Class I, Div. 2, Groups A, B, C, D T5
GL	GL EMC 2 D

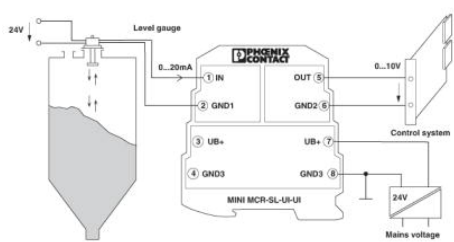
**Certificates / Approvals**



Certification: CUL, GL, UL  
 Certification Ex: CUL-EX LIS, PxC-EX, UL-EX LIS

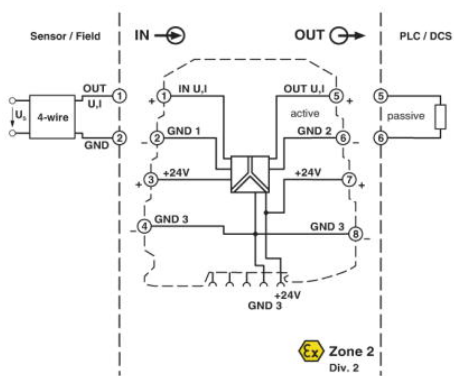
**Diagrams/Drawings**

Application drawing



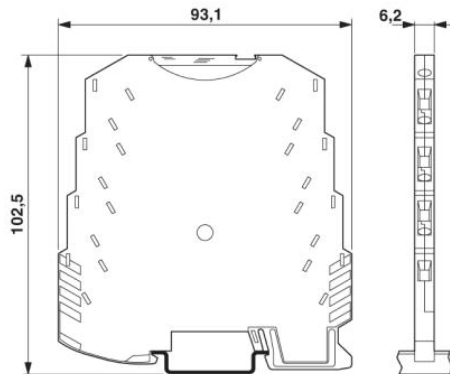
Level measurement

Block diagram



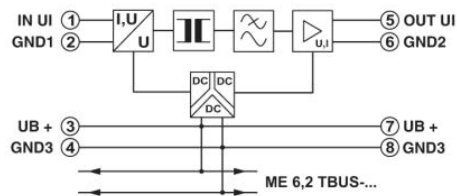
Dimensioned drawing

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Circuit diagram

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