


MINI MCR-SL-UI-I-LP-SP-NC

Order No.: 2902830

The figure shows a version with a screw connection

2-way loop-powered isolating amplifier (supplied on the output side), can be configured via DIP switches, with spring-cage connection technology and standard configuration.

Commercial data	
EAN	 4 046356 681865
Note	Made-to-order
Pack	1
Customs tariff	85437090
Gross weight in pieces	74.40 g
Country of Origin	DE

Product notes

WEEE/RoHS-compliant since:
05/12/2011

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Product description

The 6.2 mm wide MINI MCR-SL-UI-I-LP... configurable 2-way isolating amplifier is used to electrically isolate, condition, and filter analog signals.

The output loops that supply the loop-powered isolating amplifier enable the isolating amplifier to operate on an active analog input module. The modules are supplied via the current loop of the controller.

On the input side, standard analog signals and non-standard analog signals can be connected, starting from 2 mA or 50 mV up to 40 mA or 30 V. These are converted to a 4...20 mA signal.

The DIP switches accessible on the housing side enable the configuration of input signal ranges.

Technical data**Input data**

Voltage input signal	0 mV ... 1000 mV
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	0 mV ... 750 mV
	0 mV ... 500 mV
	0 mV ... 300 mV
	0 mV ... 250 mV
	0 mV ... 200 mV
	0 mV ... 125 mV
	0 mV ... 120 mV
	0 mV ... 150 mV
	0 mV ... 100 mV
	0 mV ... 75 mV
	0 mV ... 60 mV
	0 mV ... 50 mV
	0 V ... 10 V
	0 V ... 7.5 V
	0 V ... 5 V
	0 V ... 3 V
	0 V ... 2.5 V
	0 V ... 2 V
	0 V ... 1.25 V
	0 V ... 1.2 V
	0 V ... 1.5 V
	0 V ... 30 V
	0 V ... 25 V
	0 V ... 20 V
	0 V ... 12.5 V
	0 V ... 12 V
	0 V ... 15 V
	-1000 mV ... 1000 mV
	-750 mV ... 750 mV
	-500 mV ... 500 mV
	-300 mV ... 300 mV
	-250 mV ... 250 mV
	-200 mV ... 200 mV
	-125 mV ... 125 mV
	-120 mV ... 120 mV
	-150 mV ... 150 mV
	-100 mV ... 100 mV
	-75 mV ... 75 mV
PHOENIX CONTACT Ltd http://www.phoenixcontact.co.uk	-60 mV ... 60 mV
	-50 mV ... 50 mV
	-10 V ... 10 V
	-7.5 V ... 7.5 V
	-5 V ... 5 V

Current input signal	0 mA ... 40 mA
	0 mA ... 30 mA
	0 mA ... 20 mA
	0 mA ... 12 mA
	0 mA ... 10 mA
	0 mA ... 8 mA
	0 mA ... 7.5 mA
	0 mA ... 5 mA
	0 mA ... 6 mA
	0 mA ... 4 mA
	0 mA ... 3 mA
	0 mA ... 2.5 mA
	0 mA ... 2 mA
	4 mA ... 20 mA
	2 mA ... 10 mA
	1 mA ... 5 mA
Max. input voltage	< 40 V
Max. input current	< 50 mA (Dielectric strength up to 30 V)
Input resistance of voltage input	Approx. 100 k Ω (At ≤ 1 V, otherwise approximately 1 M Ω)
Input resistance current input	$\leq 50 \Omega$

Output data

Configurable/programmable	Yes, preconfigured
Current output signal	4 mA ... 20 mA
Max. output current	35 mA (output limit)
Load/output load current output	$((U_B - 8 \text{ V}) / 22 \text{ mA})$

Power supply

Supply voltage range	8 V DC ... 30 V DC
Power consumption	28 mW (without signal)

Connection data

Connection method	Spring-cage conn.
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²

Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	8 mm

General data

Width	6.2 mm
Height	93.1 mm
Depth	102.5 mm
Maximum transmission error	< 0.1 % (of final value)
	< 0.2 % (Without adjustment)
Maximum temperature coefficient	0.01 %/K
Temperature coefficient, typical	0.005 %/K
Limit frequency (3 dB)	Approx. 30 Hz
Alignment zero	± 2 %
Alignment span	± 2 %
Step response (10-90%)	Approx. 16 ms
Ambient temperature (operation)	-25 °C ... 70 °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	1.5 kV (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2:2005
Color	green
Housing material	PBT
Mounting position	Any
Conformance	CE-compliant
ATEX	Ex II 3 G Ex nA IIC T4 Gc X

Certificates

Certification

Certification Ex:

Certifications applied for:

UL Listed / CUL Listed / UL-EX LIS / CUL-EX LIS

Accessories

Item	Designation	Description
General		
2308111	MINI MCR DKL	Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm
2810272	MINI MCR-DKL-LABEL	Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL
2811268	MINI MCR-SL-V8-FLK 16-A	Eight MINI analog signal converters with screw connection method can be connected to a control system using a system adapter and system cabling with a minimum of wiring and very low error risk.

Address

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