

# MINI MCR-SL-UI-REL

Order No.: 2864480



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864480>


MCR limit value switch, with adjustable hysteresis and delay time, with screw connection



Commercial data	
EAN	4017918974879
sales group	H525
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.07534 KG
Catalog page information	Page 346 (IF-2009)

**Product notes**

WEEE/RoHS-compliant since: 11/17/2006



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## Product description

The 6.2 mm wide configurable 3-way threshold value switch MINI MCR-SL-UI-REL... is used to control and monitor analog standard signals.

On the input side, the analog standards signals 0...20 mA or 0...10 V per DIP switch can be set. On the output side, a relay with PDT contact is available. The switching thresholds are set via potentiometer.

The DIP switches located on the side of the housing have the following functions:

- Configuration of the switching hysteresis,
- Configuration of the operating and closed circuit current behavior,
- Setting of relay pickup times
- Setting of dropout delay

The relay status is indicated by a yellow LED on the front of the housing.

Power (19.2 V DC to 30 V DC) can be supplied through connection terminal blocks on the modules or in conjunction with the DIN rail connector.

#### Technical data

##### Input data

Voltage input signal	0 V ... 10 V
Current input signal	0 mA ... 20 mA
Max. input voltage	30 V
Max. input current	100 mA
Input resistance of voltage input	> 100 k $\Omega$
Input resistance current input	50 $\Omega$

##### Switching output

Output name	Relay output
Contact type	1 PDT
Contact material	AgSnO <sub>2</sub> , hard gold-plated
Maximum switching voltage	250 V AC
Limiting continuous current	2 A
Setting range of the response delay	0 s ... 10 s (0 s; 1 s; 2 s; 3 s; 4 s; 6 s; 8 s; 10 s)
Internal hysteresis	(0.1 %; 1 %; 2.5 %; 5 %)

##### Power supply

Nominal supply voltage	24 V DC
Range of supply voltages	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	< 14 mA (for 24 V DC)
Power consumption	< 330 mW (for 24 V DC)

##### Connection data

Type of connection	Screw connection
Conductor cross section solid min.	0.14 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.	26
Conductor cross section AWG/kcmil max	12
Stripping length	12 mm
Screw thread	M3

**General data**

No. of channels	1
Width	6.2 mm
Height	93.1 mm
Depth	102.5 mm
Maximum temperature coefficient	< 0.02 %/K
Linearity error	< 0.05 % (of end value)
Step response (10-90%)	< 35 ms
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20
Pollution degree	2
Surge voltage category	II
Electromagnetic compatibility	Conformance with EMC directive 2004/108/EC
Emitted interference	EN 61000-6-4
Immunity to interference	EN 61000-6-2:2005
Color	green
Housing material	PBT
Mounting position	Any
Assembly instructions	The DIN rail bus connector (T-BUS) can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
Conformity	CE compliant
ATEX	<input type="checkbox"/> II 3 G Ex nAC IIC T4 X
UL, USA	Class I, Zone 2, AEx nC IIC T6
UL, USA / Canada	UL 508 Recognized
UL, Canada	Class I, Zone 2, Ex nC IIC T6
GL	GL EMC 2 D

## Certificates / Approvals



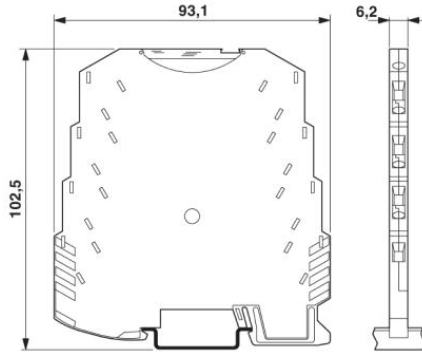
Certification	CUL, GL, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

## Accessories

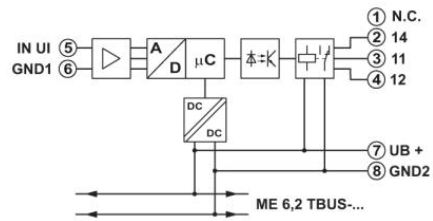
Item	Designation	Description
<b>General</b>		
2308111	MINI MCR DKL	Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm
2810272	MINI MCR-DKL-LABEL	Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL
2864134	MINI MCR-SL-PTB	MCR power terminal block for supplying several MINI Analog modules via the DIN rail connectors, with screw connection, current consumption up to max. 2 A
2864147	MINI MCR-SL-PTB-SP	MCR power terminal block for supplying several MINI-ANALOG modules via the DIN rail connectors, with spring-cage connection, current consumption up to max. 2 A
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.
2866653	MINI-PS-100-240AC/24DC/1.5/EX	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A, ATEX approval
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A

## Diagrams/Drawings

### Dimensioned drawing



### Circuit diagram



Approbationslogos (EX-Bereich)

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