

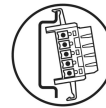
# MINI MCR-SL-UI-REL

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

|                          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 017918 974879 |
| sales group              | H525   |
| Pack                     | 1 pcs.   |
| Customs tariff           | 85389091   |
| Catalog page information | Page 367 (IF-2011)   |

## Product notes

WEEE/RoHS-compliant since:  
05/09/2006



<http://www.download.phoenixcontact.com>  
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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   |
| 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 | < 14 mA (at 24 V DC)  |
| Power consumption        | < 330 mW (at 24 V DC)   |

##### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Connection method                  | 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 final value)  |
| 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/power supply         | 1.5 kV AC (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  |
| 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 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**



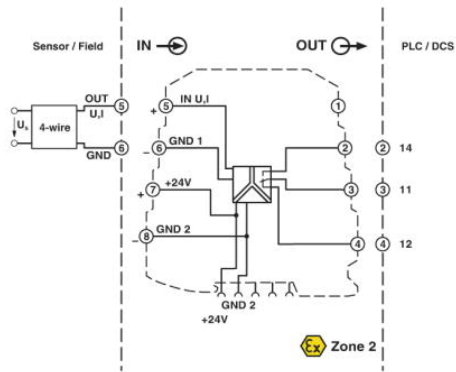
Certification: CUL, GL, UL  
 Certification Ex: CUL-EX LIS, PxC-EX, UL-EX LIS

**Accessories**

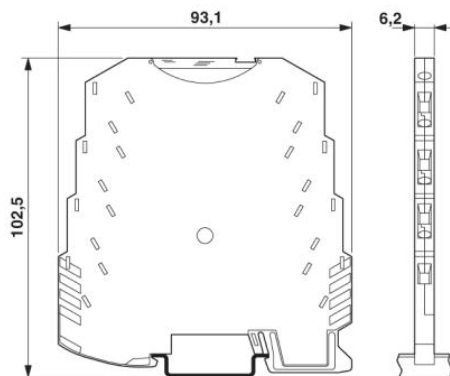
| Item           | Designation                    | Description   |
|----------------|--------------------------------|---|
| <b>General</b> |                                |   |
| 2869728        | ME 6,2 TBUS-2 1,5/5-ST-3,81 GN | DIN rail connector (TBUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rails according to EN 60715   |
| 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**

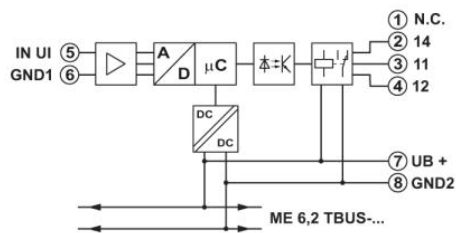
Block diagram



Dimensioned drawing



Circuit diagram



**Address**

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