

# MINI MCR-SL-TC-UI-NC

Order No.: 2864299



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864299>

Temperature transducers for thermocouples, configurable via DIP switch, with screw connection, not pre-configured



## Commercial data

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918956554      |
| Pack                     | 1 pcs.             |
| Customs tariff           | 85389091           |
| Weight/Piece             | 0.0748 KG          |
| Catalog page information | Page 342 (IF-2009) |

## Product notes

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



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## Technical data

### Input data

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Configurable/programmable          | Yes, unconfigured                   |
| Sensor types that can be used (TC) | Thermocouples type J, K (IEC 584-1) |

#### Output data

|                                 |                           |
|---------------------------------|---------------------------|
| Configurable/programmable       | Yes, unconfigured         |
| Voltage output signal           | 0 V ... 10 V              |
|                                 | 10 V ... 0 V              |
|                                 | 0 V ... 5 V               |
|                                 | 1 V ... 5 V               |
| Current output signal           | 0 mA ... 20 mA            |
|                                 | 4 mA ... 20 mA            |
|                                 | 20 mA ... 0 mA            |
|                                 | 20 mA ... 4 mA            |
| Max. output voltage             | 12.5 V                    |
| Max. output current             | 23 mA                     |
| Load/output load voltage output | $\geq 10 \text{ k}\Omega$ |
| Load/output load current output | $< 500 \Omega$ (at 20 mA) |

#### 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 | $< 21 \text{ mA}$ (for 24 V DC)                                                                                                                                                                             |
| Power consumption        | $< 500 \text{ mW}$                                                                                                                                                                                          |

#### Connection data

|                                        |                     |
|----------------------------------------|---------------------|
| Type of connection                     | Screw connection    |
| Conductor cross section solid min.     | $0.14 \text{ mm}^2$ |
| Conductor cross section solid max.     | $2.5 \text{ mm}^2$  |
| Conductor cross section stranded min.  | $0.2 \text{ mm}^2$  |
| Conductor cross section stranded max.  | $2.5 \text{ mm}^2$  |
| 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                                                                                                                        |
| Cold point error, max.                  | < 3 K                                                                                                                             |
| Typical cold point errors               | < 2 K                                                                                                                             |
| Step response (10-90%)                  | < 30 ms                                                                                                                           |
| Protective circuitry                    | Transient protection                                                                                                              |
| 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 approval                           | Ex II 3 G Ex nA II T4 X                                                                                                           |
| UL, USA / Canada                        | UL 508 Recognized                                                                                                                 |
| GL                                      | GL EMC 2 D                                                                                                                        |

#### Certificates / Approvals



Certification

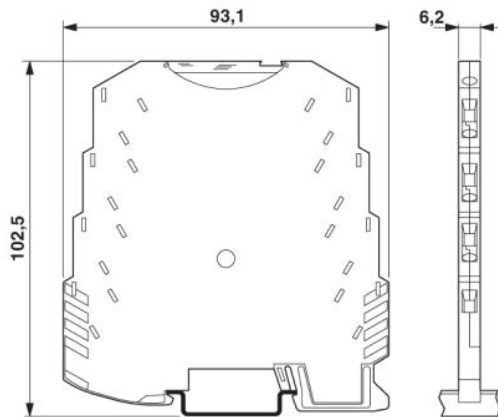
CUL, GL, UL

Certification Ex:

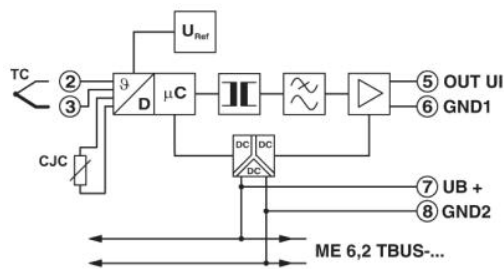
CUL-EX LIS, PxC-EX, UL-EX LIS

## Drawings

### Dimensioned drawing



### Circuit diagram



**Address**

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 00  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.de>



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