

# 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 298 (IF-2007) |

## Product notes

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



<http://www.download.phoenixcontact.com>  
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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 | $< 500 \text{ }\Omega$ (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        |
| Length          | 102.5 mm |

|   |   |
|---|---|
| Width                                   | 6.2 mm  |
| Height                                  | 93.1 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  |
| Electromagnetic compatibility           | Conformance with EMC directive 2004/108/EC  |
| Emitted interference                    | EN 61000-6-4  |
| Immunity to interference                | EN 61000-6-2  |
| 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

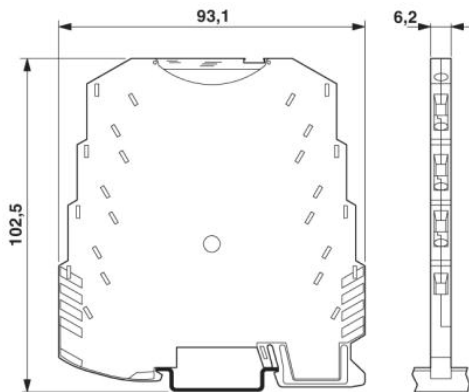
Certification Ex: CUL-EX LIS, PxC-EX, UL-EX LIS

**Accessories**

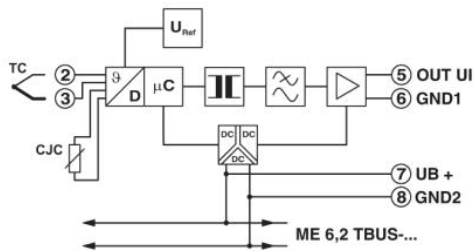
| Item           | Designation                    | Description   |
|----------------|--------------------------------|---|
| <b>General</b> |                                |   |
| 2869728        | ME 6,2 TBUS-2 1,5/5-ST-3,81 GN | DIN rail connector (T-BUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rails according to EN 60715                              |
| 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 |
| 2866653        | MINI-PS-100-240AC/24DC/1.5/ EX | Power supply unit, primary switched, slim design, output: 24 V DC / 1.5 A, ATEX approval  |
| 2866983        | MINI-SYS-PS-100-240AC/24DC/1.5 | Power supply unit, primary switched, slim design, output: 24 V DC / 1.5 A   |

**Drawings**

Dimensioned drawing



Circuit diagram



Approval logo (Ex area)

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