

# MCR-SL-PT100-LP-I - Temperature measuring transducer



2864558

<https://www.phoenixcontact.com/us/products/2864558>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



MCR temperature transducers: programmable loop-powered temperature transducers for Pt 100 resistance thermometers

## Your advantages

- Freely programmable via MCR/PI-CONF-WIN
- Two-wire transmitter for Pt 100 resistance thermometers

## Commercial data

Item number	2864558
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1143
GTIN	4017918899813
Weight per piece (including packing)	102.8 g
Weight per piece (excluding packing)	25 g
Customs tariff number	85437090
Country of origin	DE

# MCR-SL-PT100-LP-I - Temperature measuring transducer



2864558

<https://www.phoenixcontact.com/us/products/2864558>

## Technical data

### Product properties

Product type	Temperature transmitter
Configuration	Using MCR-PI-CONF-WIN configuration software package

### System properties

#### Functionality

Configuration	Using MCR-PI-CONF-WIN configuration software package
---------------	--

### Electrical properties

Switch-on delay	4 s
Maximum power dissipation for nominal condition	122.5 mW
Test voltage input/output	2 kV AC (50 Hz, 60 s)
Step response (10-90%)	< 2 s
Transmission error resistance thermometer	0.2 K

#### Supply

Designation	Loop-powered
Supply voltage range	12 V DC ... 35 V DC
Max. current consumption	< 3.5 mA

### Input data

#### Signal

Input signal	Temperature
--------------	-------------

#### Measurement

Configurable/programmable	Yes, programmable
Sensor types (RTD) that can be used	Pt 100, minimum measurement range 10 K
Temperature measuring range: Pt 100	-200 °C ... 850 °C (freely adjustable)
Connection technology	2-, 3-, 4-conductor

### Output data

#### Frequency:

Configurable/programmable	no
---------------------------	----

#### Signal: Current output

Configurable/programmable	Yes
Current output signal	4 mA ... 20 mA 20 mA ... 4 mA
Output current with wire break	≤ 3.6 mA or ≥ 21 mA (adjustable)
Output current with short-circuit	≤ 3.6 mA or ≥ 21 mA (adjustable)
Output current range with overrange/underrange	≤ 20.5 mA / ≥ 3.8 mA (linear increase/decrease)
Output current limit	≤ 23 mA

# MCR-SL-PT100-LP-I - Temperature measuring transducer

2864558

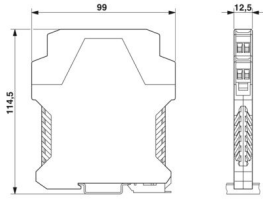
<https://www.phoenixcontact.com/us/products/2864558>

Load/output load current output	max ( $V_{\text{supply}} - 12 \text{ V}$ ) / 0.023 A (current output)
---------------------------------	---

## Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 24

## Dimensions

Dimensional drawing	
Width	12.5 mm
Height	99 mm
Depth	114.5 mm

## Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

## Approvals

### CE

Certificate	CE-compliant
-------------	--------------

### UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D
----------------	------------------------------------

## EMC data

Noise immunity	EN 61326-1 (IEC 61326) and NAMUR NE 21
----------------	--

### Noise emission

Standards/regulations	EN 61326-1 (IEC 61326) and NAMUR NE 21
-----------------------	--

## Mounting

# MCR-SL-PT100-LP-I - Temperature measuring transducer



2864558

<https://www.phoenixcontact.com/us/products/2864558>

Mounting type	DIN rail mounting
Mounting position	any

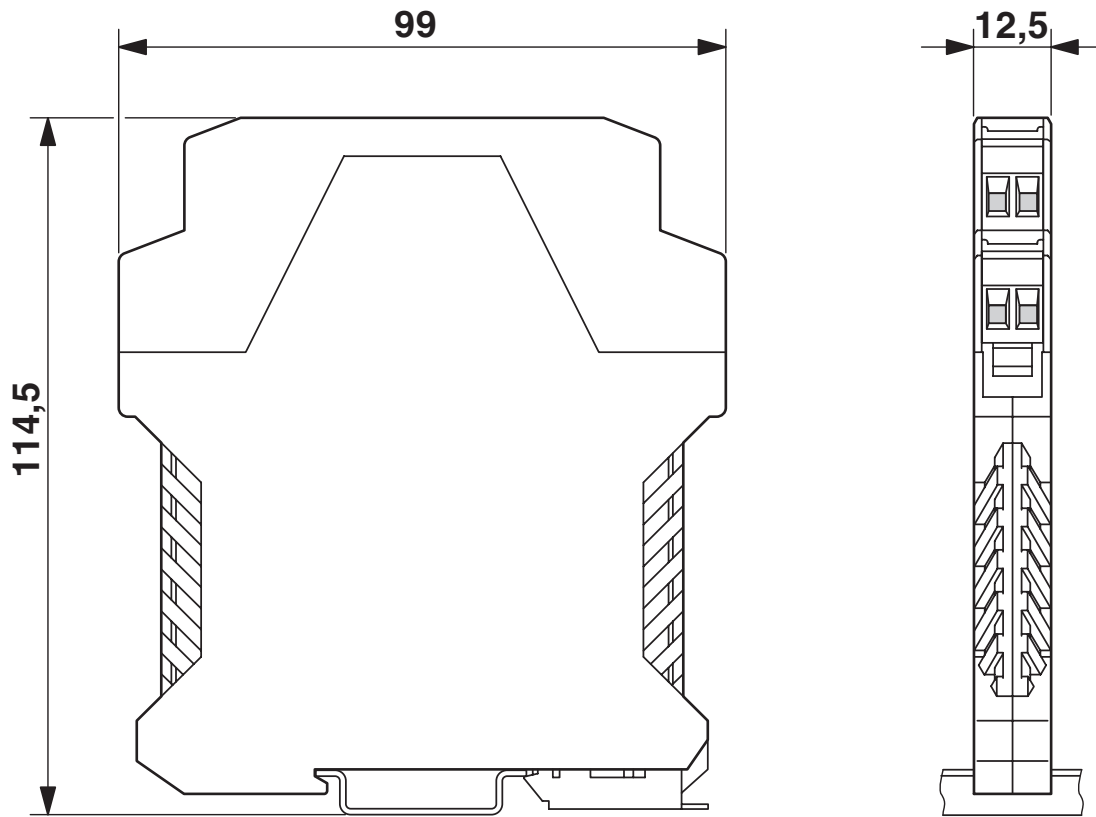
# MCR-SL-PT100-LP-I - Temperature measuring transducer

2864558

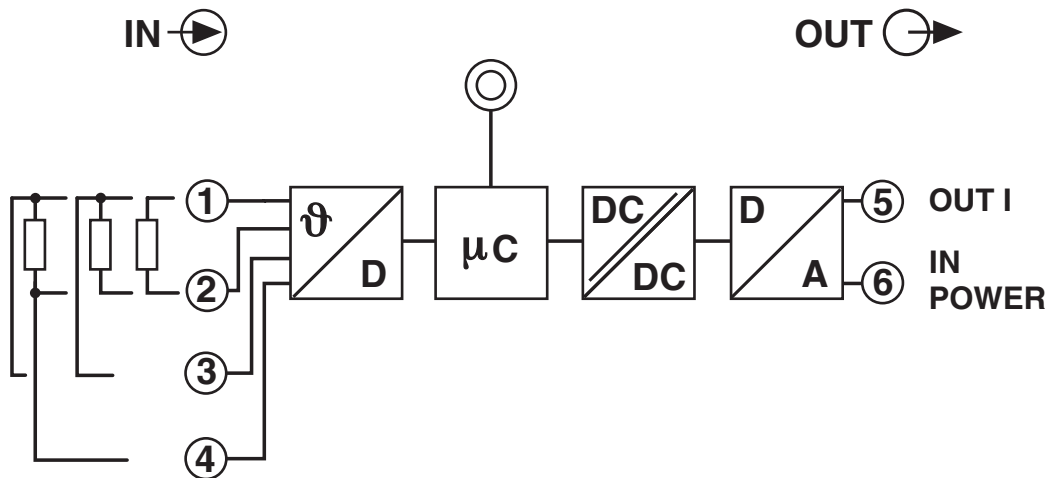
<https://www.phoenixcontact.com/us/products/2864558>

## Drawings

Dimensional drawing



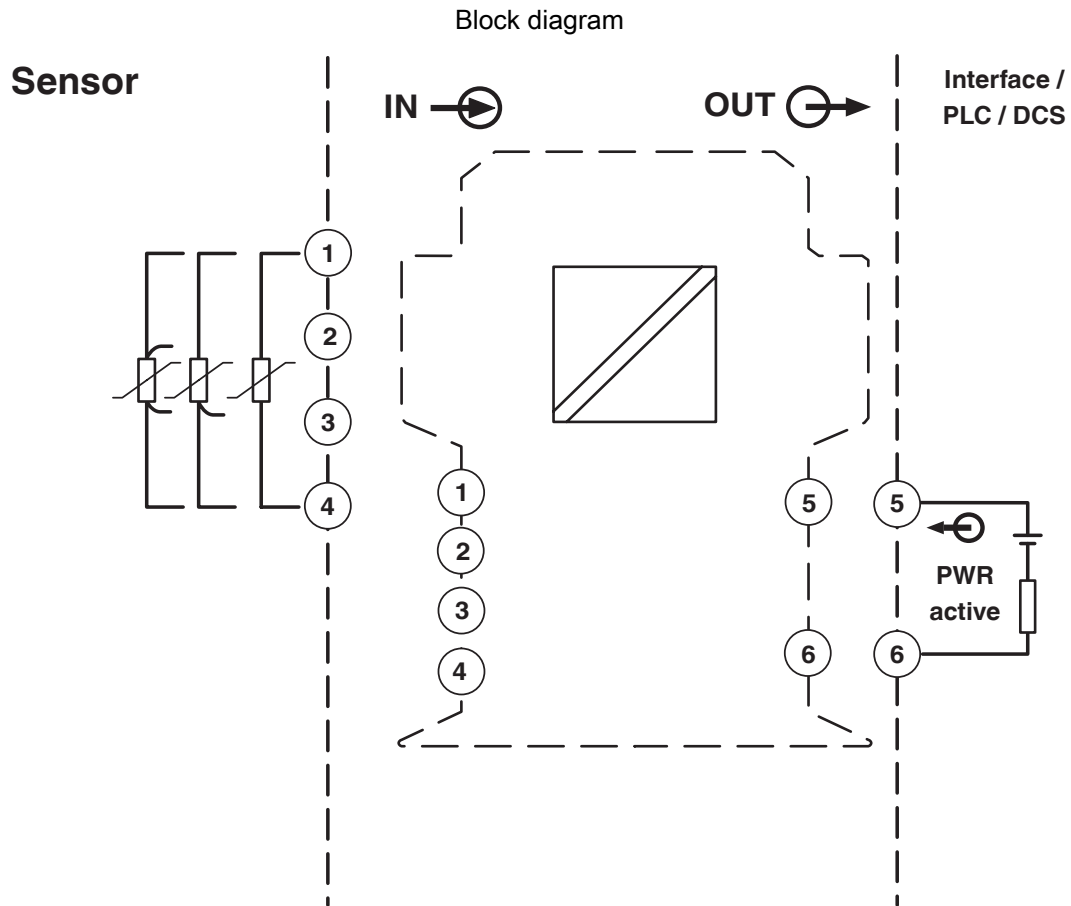
Circuit diagram



# MCR-SL-PT100-LP-I - Temperature measuring transducer

2864558

<https://www.phoenixcontact.com/us/products/2864558>



# MCR-SL-PT100-LP-I - Temperature measuring transducer



2864558

<https://www.phoenixcontact.com/us/products/2864558>

## Classifications

### UNSPSC

UNSPSC 21.0	41112105
-------------	----------

# MCR-SL-PT100-LP-I - Temperature measuring transducer



2864558

<https://www.phoenixcontact.com/us/products/2864558>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)