

# MCR-SL-HT-PT 100-I - Head-mounted transducer



2864516

<https://www.phoenixcontact.com/us/products/2864516>

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Measurement and control temperature transducer, for resistance thermometers, thermocouples, resistance-type sensors, and voltage sensors. For Pt 100 resistance temperature detectors.

## Your advantages

- Freely programmable via MCR/PI-CONF-WIN
- For installation in connecting head, form B
- Two-wire transmitter for Pt 100 resistance thermometers

## Commercial data

Item number	2864516
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1142
GTIN	4017918893217
Weight per piece (including packing)	81.025 g
Weight per piece (excluding packing)	81.025 g
Customs tariff number	85437090
Country of origin	DE

## 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
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### Electrical properties

Switch-on delay	4 s
Step response (10-90%)	< 2 s
Transmission error resistance thermometer	0.2 K

#### Supply

Designation	Loop-powered
Supply voltage range	10 V DC ... 35 V DC
Max. current consumption	< 3.5 mA

### Input data

#### Signal

Input signal	Temperature
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#### 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
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#### 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
Load/output load current output	max (V <sub>supply</sub> - 10 V) / 0.023 A (current output)

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## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 1.75 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.75 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 15

## Material specifications

Color	green (RAL 6021)
Housing material	PC

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00 IP54 (Installed in the connection head)
Ambient temperature (operation)	-40 °C ... 85 °C

## Approvals

### CE

Certificate	CE-compliant
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### UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D
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## EMC data

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

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

Assembly note	Connection head according to DIN 43729 form B
Mounting position	any

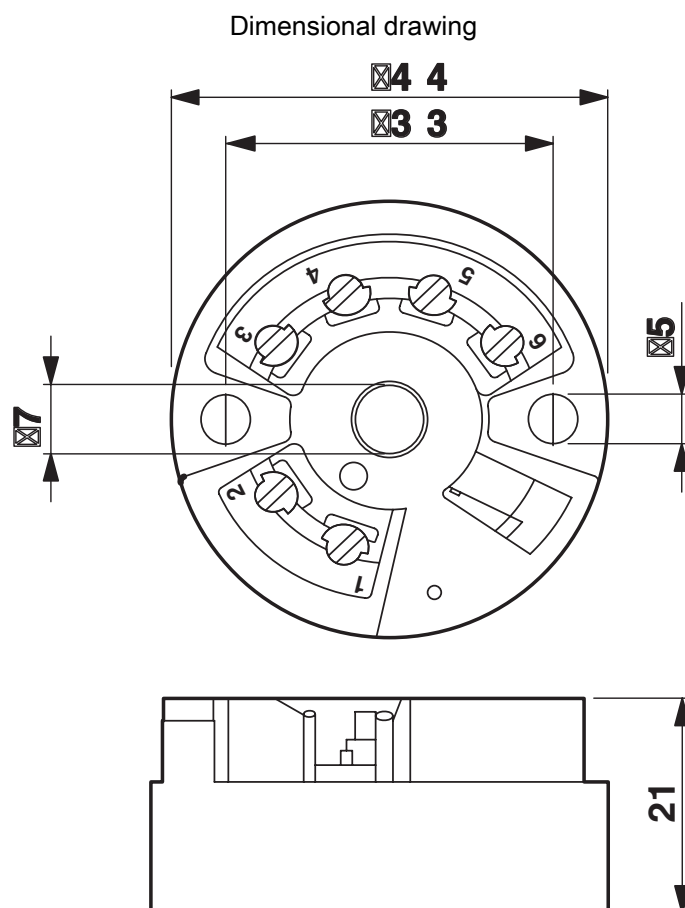
# MCR-SL-HT-PT 100-I - Head-mounted transducer

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## Drawings



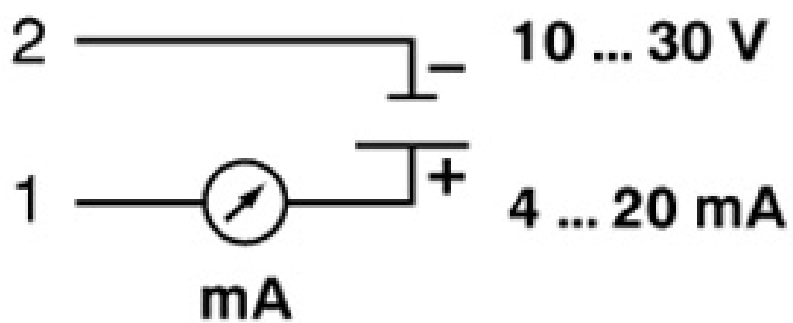
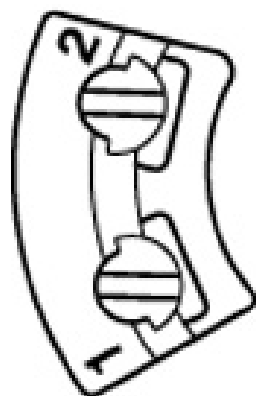
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## Connection diagram

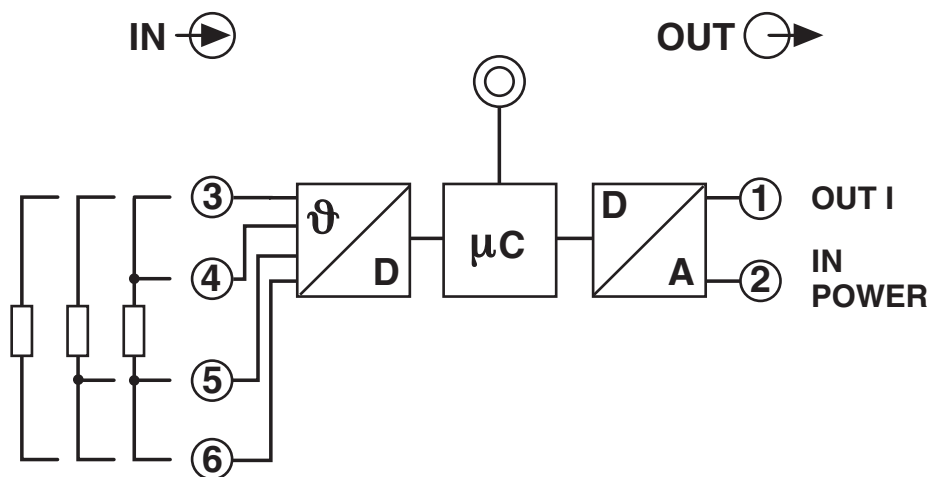


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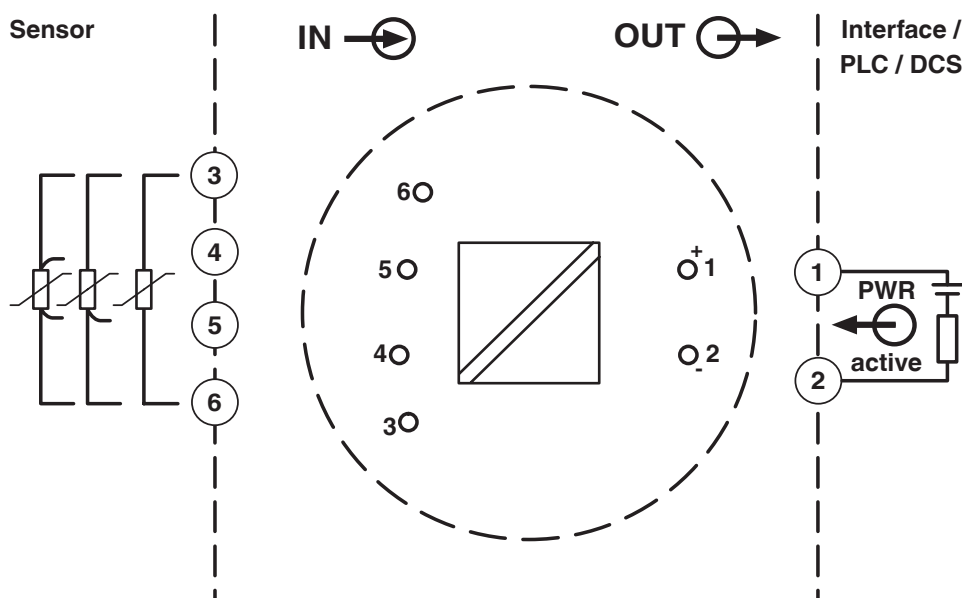
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Circuit diagram



Block diagram



Block diagram MCR-SL-HT-PT 100-I

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## Classifications

### UNSPSC

UNSPSC 21.0	41112105
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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