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	CK1322
Catalog page	Page 191 (C-5-2017)
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

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Technical data

Product properties

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

Data management status

Article revision	00

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

Measurement

Configurable/programmable	Yes, programmable
Sensor types (RTD) that can be used	Pt 100 ; minimum measurement range 10 K
Sensor type:	-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
Load/output load current output	max (V_{supply} - 10 V) / 0.023 A (current output)

Connection data

Connection method	Screw connection

Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² ... 1.75 mm²
Conductor cross section flexible	0.2 mm² ... 1.75 mm²
Conductor cross section AWG	24 ... 15

Material specifications

Color	green (RAL 6021)
Housing material	Polycarbonate, 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

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

Mounting

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

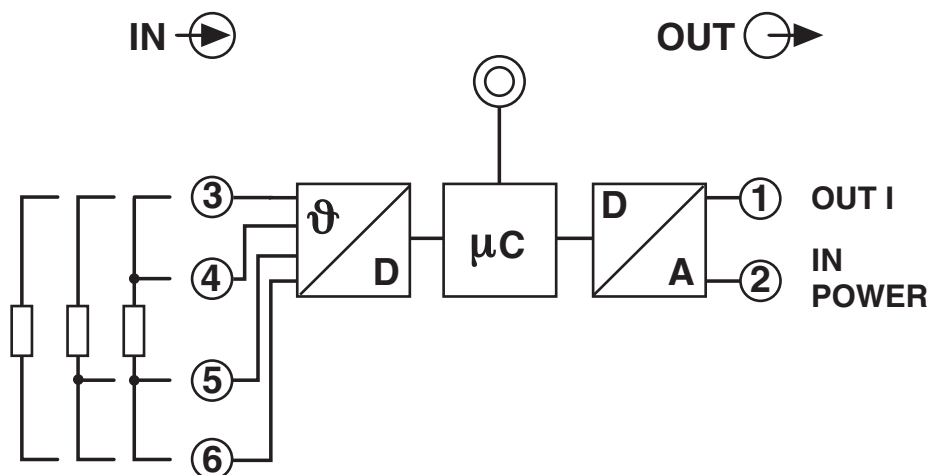## Drawings

Dimensional drawing
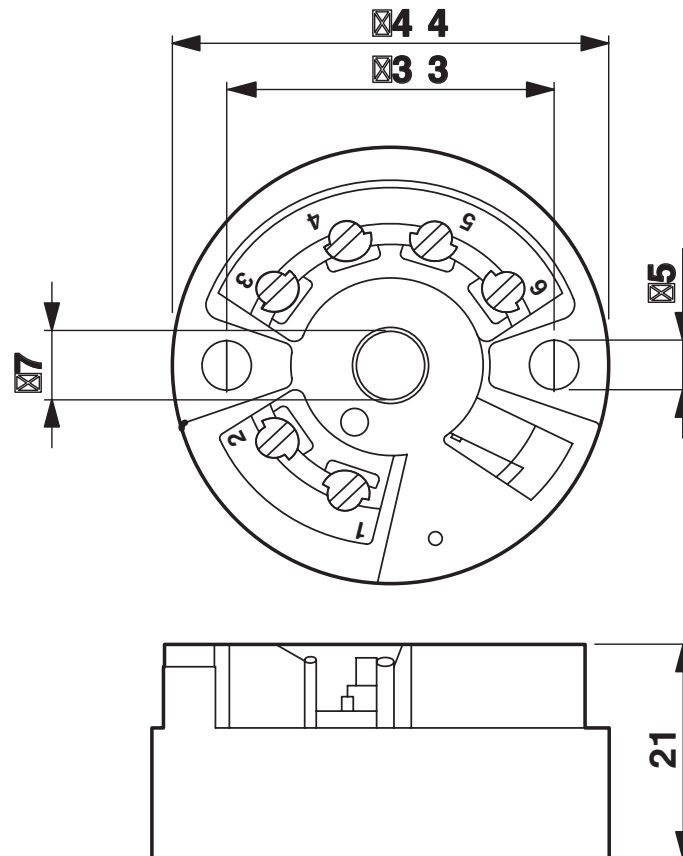
Circuit diagram

MCR-SL-HT-PT 100-I - Head-mounted transducer
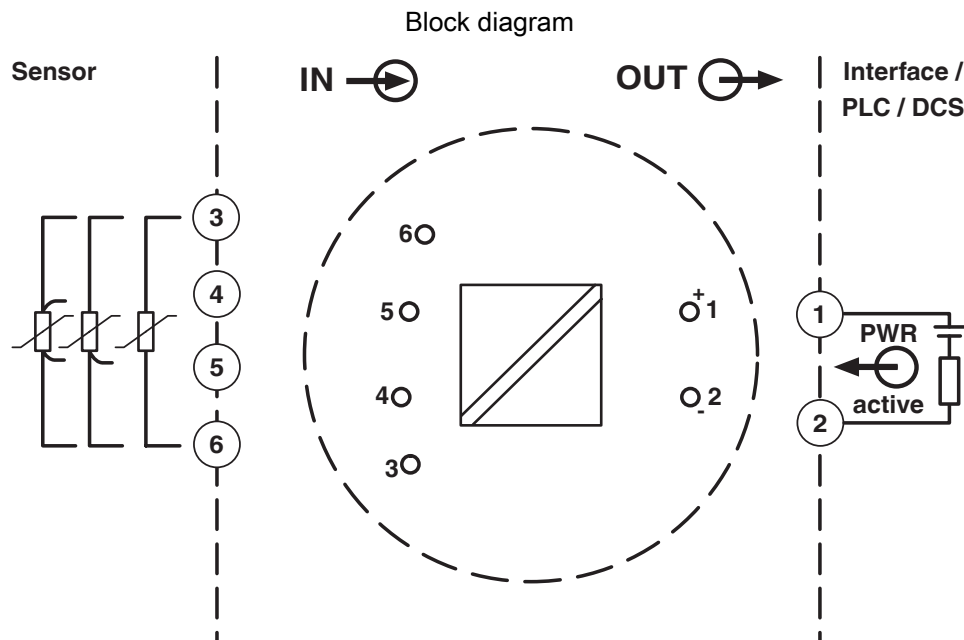
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Block diagram

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

Connection diagram
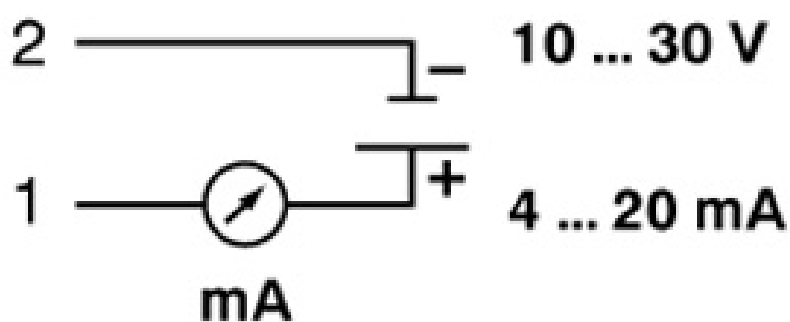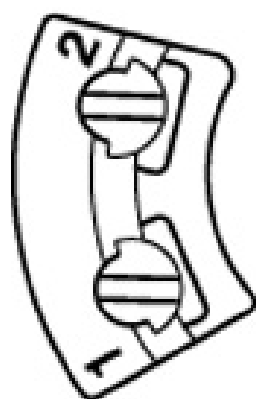
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Classifications

ECLASS

ECLASS-11.0	27210129

UNSPSC

UNSPSC 21.0	41112105

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%