

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

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 893217
GTIN	4017918893217
Weight per Piece (excluding packing)	84.950 g
Custom tariff number	85437090
Country of origin	Germany

### Technical data

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP00
	IP54 (Installed in the connection head)
Noise immunity	EN 61326-1 (IEC 61326) and NAMUR NE 21

#### Input data

Configurable/programmable	Yes, programmable
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## Technical data

### Input data

Sensor types (RTD) that can be used	Pt 100 ; minimum measurement range 10 K
Connection technology	2, 3, 4-wire

### Output data

Output name	Current output
Configurable/programmable	Yes
Current output signal	4 mA ... 20 mA
	20 mA ... 4 mA
Output current with wire break	$\leq 3.6 \text{ mA}$ or $\geq 21 \text{ mA}$ (adjustable)
Output current with short-circuit	$\leq 3.6 \text{ mA}$ or $\geq 21 \text{ mA}$ (adjustable)
Output current range with overrange/underrange	$\leq 20.5 \text{ mA}$ / $\geq 3.8 \text{ mA}$ (linear increase/decrease)
Load/output load current output	$\max (V_{\text{supply}} - 10 \text{ V}) / 0.023 \text{ A}$ (current output)

### Power supply

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

### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

### General

Transmission error resistance thermometer	0.2 K
Step response (10-90%)	< 2 s
Switch-on delay	4 s
Noise emission	EN 61326-1 (IEC 61326) and NAMUR NE 21
Noise immunity	EN 61326-1 (IEC 61326) and NAMUR NE 21
Color	green
Housing material	Polycarbonate, PC
Mounting position	any
Assembly instructions	Connection head according to DIN 43729 form B
Configuration	Using MCR-PI-CONF-WIN configuration software package

### Standards and Regulations

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

#### Standards and Regulations

Noise immunity	EN 61326-1 (IEC 61326) and NAMUR NE 21
Connection in acc. with standard	CUL
Conformance	CE-compliant
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

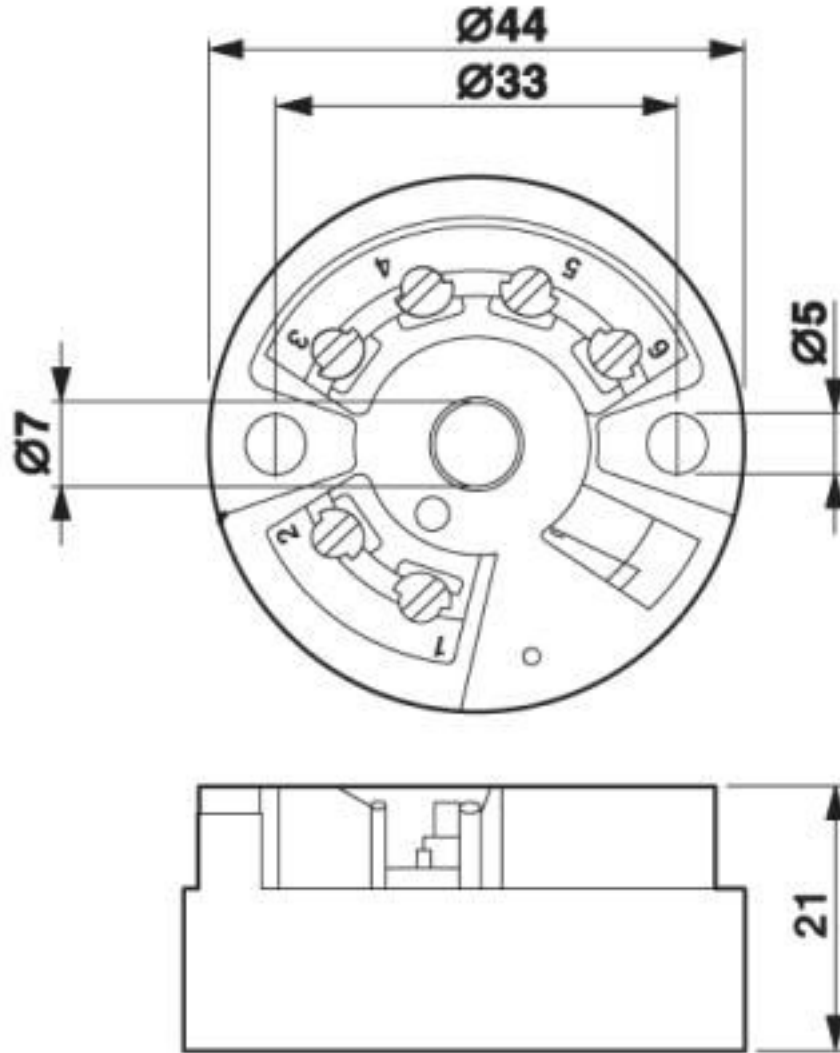
#### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

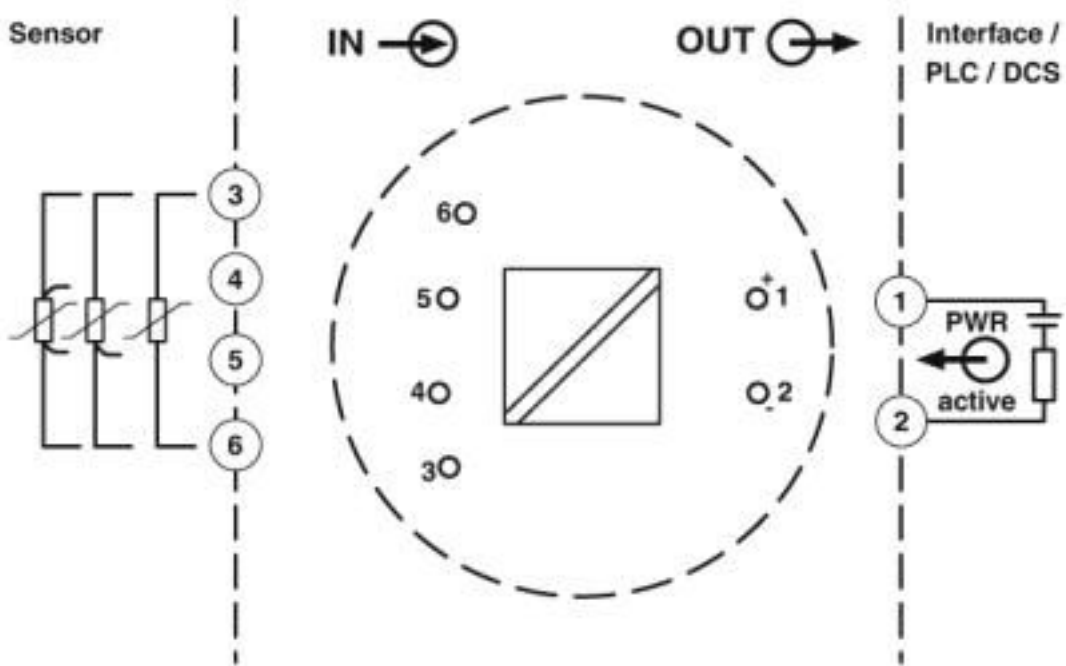
# Head-mounted transducer - MCR-SL-HT-PT 100-I - 2864516

Dimensional drawing



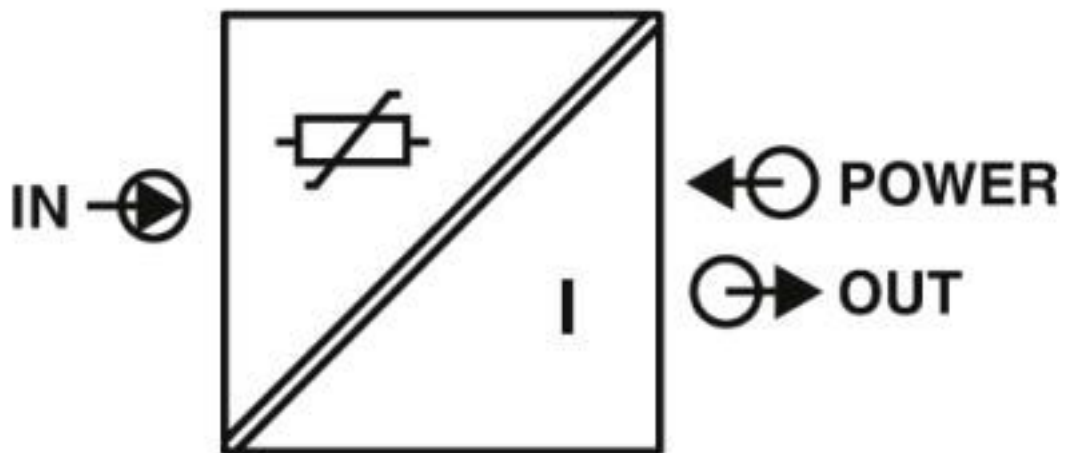
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Block diagram



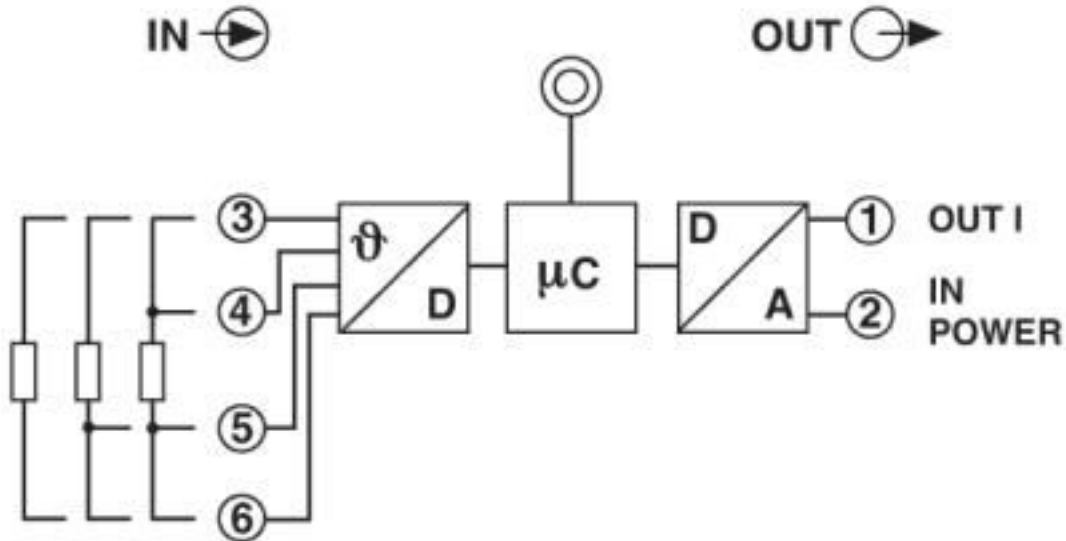
Block diagram MCR-SL-HT-PT 100-I

Pictogram



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Circuit diagram



## Classifications

### eCl@ss

eCl@ss 4.0	27200200
eCl@ss 4.1	27200200
eCl@ss 5.0	27200200
eCl@ss 5.1	27200200
eCl@ss 6.0	27200200
eCl@ss 7.0	27200206
eCl@ss 8.0	27200206
eCl@ss 9.0	27210129

### ETIM

ETIM 2.0	EC001446
ETIM 3.0	EC001446
ETIM 4.0	EC001446
ETIM 5.0	EC001446
ETIM 6.0	EC002919
ETIM 7.0	EC002919

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008

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## Classifications

### UNSPSC

UNSPSC 12.01	39121008
UNSPSC 13.2	41112105
UNSPSC 18.0	41112105
UNSPSC 19.0	41112105
UNSPSC 20.0	41112105
UNSPSC 21.0	41112105

## Accessories

### Accessories

#### Mounting rail adapter

Adapter - MCR-DIN-RAIL-ADAPTER HT - 2864671



DIN rail adapter for head-mounted transducers. Suitable for 35 mm DIN rails in accordance with EN 60715.

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#### Programming adapter

Programming adapter - MCR-PAC-T-USB - 2309000



Programming adapter with USB and T port interface, 2.4 m for programming FA MCR-..., MCR-...-LP-..., and MCR-...-HT-... modules