

# 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	
GTIN	4017918893217
Weight per Piece (excluding packing)	81.020 g
Custom tariff number	85437040
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
Sensor types (RTD) that can be used	Pt 100 ; minimum measurement range 10 K
Connection technology	2-, 3-, 4-conductor

### Output data

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

## Technical data

### 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	≤ 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)
Load/output load current output	max (V <sub>supply</sub> - 10 V) / 0.023 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
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
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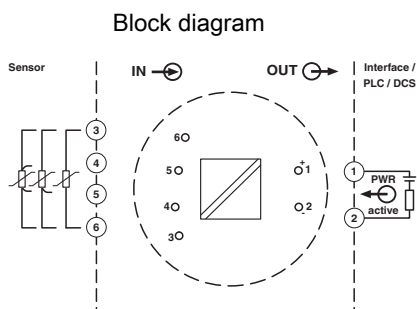
# Head-mounted transducer - MCR-SL-HT-PT 100-I - 2864516

## Technical data

### Environmental Product Compliance

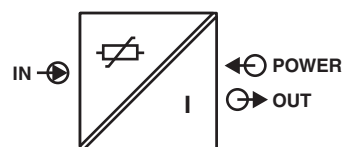
	No hazardous substances above threshold values
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## Drawings

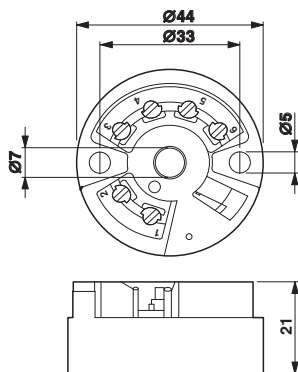


Block diagram MCR-SL-HT-PT 100-I

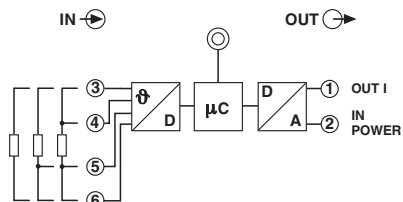
### Pictogram



### Dimensional drawing



### Circuit diagram



## Classifications

eCl@ss

eCl@ss 10.0.1	27210129
eCl@ss 11.0	27210129
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

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## Classifications

eCl@ss

eCl@ss 9.0	27210129
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## 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
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.



#### 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



