

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) | 81.020 g |
| Custom tariff number | 85437090 |
| Country of origin | Germany |
| Note | Made to Order (non-returnable) |

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-wire |

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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 _{supply} - 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 ² ... 1.75 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 1.75 mm ² |
| 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 |
| Conformance | CE-compliant |
| UL, USA/Canada | Class I, Div. 2, Groups A, B, C, D |

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 |