

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>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                            |

# 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                 | $\leq 3.6 \text{ mA}$ 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 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 |
| 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     |