

Datasheet

10x2Pt1000B

131050

Summary

This platinum temperature sensor element is characterized by its large size, which enables or facilitates manual processing.

Dimensions in mm

| | L | W | L ₁ | H | Ø |
|--|-----------|-----------|----------------|---------------|-------------|
| | 9,5 ± 1,5 | 1,9 ± 0,2 | 10 ± 1 | 1 + 0,3 - 0,2 | 0,25 ± 0,02 |

Technical specifications

| Nominal resistance R ₀ at 0°C | Specification | Tolerance | Order Number | Item Number |
|---|---------------|---------------|--------------|-------------|
| 1000 Ω | DIN EN 60751 | F 0,3 (DIN B) | 10x2Pt1000B | 131050 |

| | | | |
|---------------------------|---|---------------------------|---------------------------|
| Temperature range: | -70 °C to +500 °C in continuous operation (briefly up to 550 °C possible) | | |
| | Validity of tolerance F 0.3: -70 °C to +500 °C | | |
| Temperature coefficient: | TK = 3850 ppm/K | | |
| Connecting wires: | NiPt coated wire, suitable for crimping, welding and brazing | | |
| Long-term stability: | max. R ₀ -drift 0.04 % after 1000 h at 500 °C | | |
| Vibration resistance: | At least 40 g acceleration at 10 to 2000 Hz, depends on installation | | |
| Shock resistance: | at least 100 g acceleration with 8 ms half sine wave, depends on installation | | |
| Environmental conditions: | unprotected only in dry environments | | |
| Insulation resistance: | > 100 MΩ at 20 °C; > 2 MΩ at 500 °C | | |
| Self-heating: | 0.2 K / mW at 0°C | | |
| Response: | water current (v = 0.4 m/s): | t _{0,5} = 0,10 s | t _{0,9} = 0,30 s |
| | Air flow (v = 2 m/s): | t _{0,5} = 4,0 s | t _{0,9} = 12 s |
| Measuring current: | 0.1 to 0.3 mA (consider self-heating) | | |
| Measuring point: | 8 mm from the end of the sensor element body | | |
| Packaging: | Taped | | |
| Note: | Please refer to our application and installation instructions. | | |
| RoHS compliant | | | |

We reserve the right to make technical changes. All technical data serves as information and does not guarantee properties.

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