

Datasheet

2x2Pt100B-AgPd

111036

Summary

This platinum temperature sensor element is characterized by the material of the lead wire. Typically, it is used in the automotive industry and in air conditioning and heating.

Dimensions in mm

| | L | W | L ₁ | H | Ø |
|--|-----------------|-----------|----------------|-------------|-------------|
| | 2,3 + 0,2 - 0,1 | 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 |
|--|---------------|---------------|----------------|-------------|
| 100 Ω | DIN EN 60751 | F 0,3 (DIN B) | 2x2Pt100B-AgPd | 111036 |

| | | | |
|---------------------------|---|--------------------------|---------------------------|
| Temperature range: | -50 °C to +400 °C in continuous operation | | |
| | Validity of tolerance F 0,3: -50 °C to + 400 °C | | |
| Temperature coefficient: | TK = 3850 ppm/K | | |
| Connecting wires: | AgPd coated wire, suitable for crimping, welding and brazing | | |
| Long-term stability: | max. R ₀ -drift 0.04 % after 1000h at 400 °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 400 °C | | |
| Self-heating: | 0.4 K / mW at 0°C | | |
| Response: | water current (v = 0.4 m/s): | t _{0,5} = 0,6 s | t _{0,9} = 0.20 s |
| | Air flow (v = 2 m/s): | t _{0,5} = 3,0 s | t _{0,9} = 13.0 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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