

Datasheet

2x2,2Pt1000B-Ni

131010

Summary

Dieses Platin-Temperaturensorelement zeichnet sich durch sein sehr gutes Preis-Leistungs-Verhältnis aus und wird deshalb in Massenmärkten eingesetzt. Das hochwertige Material des Anschlussdrahtes ermöglicht prozesssichere Verarbeitung auch bei längerem Luftkontakt.

Dimensions in mm

| | | | | | |
|--|-----------------|-----------|----------------------|-----------------|-------------|
| | L | B | L₁ | H | Ø |
| | 2,3 + 0,2 - 0,1 | 2,1 ± 0,2 | 10 ± 1 | 0,9 + 0,3 - 0,2 | 0,22 ± 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) | 2x2,2Pt1000B-Ni | 131010 |

Temperature range: -70 ° C to +500 ° C in continuous operation (briefly also 550 ° C DIN B and 2B possible)
Validity of tolerance F 0.3: -70 ° C to +500 ° C

Temperature coefficient: TK = 3850 ppm / K

Connecting wires: Ni wire, suitable for brazing and welding

Environmental conditions: unprotected only in dry environments

Insulation resistance: > 100 M at 20 ° C; > 2 milliohms at 500 ° C

Self-heating: 0.4 K / mW at 0 ° C

Response: water current (v = 0.4 m / s): t_{0,5} = 0.05 s t_{0,9} = 0.15 s
Air flow (v = 2 m / s): t_{0,5} = 3.0 s t_{0,9} = 10.0 s

Measuring current: 0.1 to 0.3 mA (consider self-heating)

Measuring point: 8 mm from the end of the sensor element body

Processing instructions: 1. To avoid a shear stress on the port area only bent 3mm after the element bent 3mm after the Sensor head and with the help of a bending machine.
2. Due to a production-related oxide layer on the terminal ends is the soft solder ability limited.

Packaging: loose in bag / vacuum packed

Note: Please refer to our application and installation instructions.

RoHS compliant

Technische Änderungen behalten wir uns vor. Alle technischen Angaben sind Beschaffenheitsangaben und sichern keine Eigenschaften zu.

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