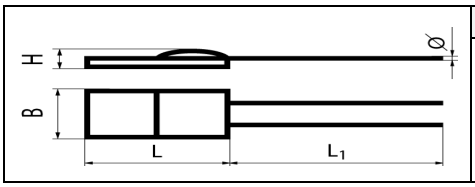
Datasheet 1,7x1,25Pt1000B 131003

Summary

This platinum temperature sensor element is characterized by the small size. Typically, it is used in the automotive industry and in air conditioning and heating.

Dimensions in mm



L	B	L_1	H	Ø
1,7 ±0,25	1,25 ± 0,15	10 ± 1	0,8 ±0,2	0,15 ± 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)	1,7x1,25Pt1000B	131003

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 8ms 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:	0.4 K / mW at 0 ° C
Response:	water current (v = 0.4 m / s): $t_{0,5}$ = 0.04 s $t_{0,9}$ = 0.12 s Air flow (v = 2 m / s): $t_{0,5}$ = 2.2 s $t_{0,9}$ = 7.0 s
Measurement current:	Due to the self-heating error by the measurement conditions of the measurement current should be limited to a maximum value. We recommend: 0.1 to 0,3 mA (consider self-heating)
Measuring point:	8 mm from the end of the sensor element body
Packaging:	loose packed in bag / vacuum.
Note:	**Please refer to our application and installation instructions.**
RoHS compliant	

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