

Datasheet

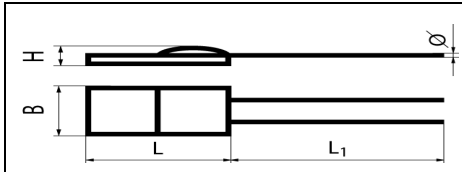
4x2Pt100-2B-850°C

110012

Summary

This platinum temperature sensor element is characterized by its high temperature resistance, so it can be used in Temperature measurements in gases or in ovens.

Dimensions in mm

	L	B	L₁	H	Ø
	4,1 ±0,15	2,2 ± 0,2	6 ± 1	1,2 ±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 0,6 (DIN 2B)	4x2Pt100-2B-850°C	110012

Temperature range:	-70 ° C to +850 ° C in continuous operation		
	Validity of tolerance F 0.6: -70 ° C to +850 ° C		
Temperature coefficient:	TK = 3850 ppm / K		
Connecting wires:	platinum wire		
Long-term stability:	at 850 ° C for 1000 h (energized open)		
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 650 ° C		
Self-heating:	0.2 K / mW at 0 ° C		
Response:	water current (v = 0.4 m / s):	τ _{0,5} = 0.05 s	τ _{0,9} = 0.17 s
	Air flow (v = 2 m / s):	τ _{0,5} = 3.3 s	τ _{0,9} = 13.0 s
Measuring current:	0.3 to max. 1 mA (consider self-heating)		
Measuring point:	4 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			

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

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