

Datasheet

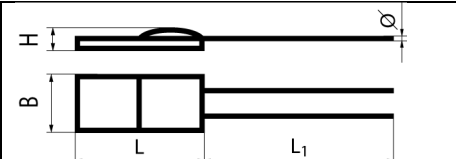
2,5x2Pt100B-Ni

111023

Summary

This platinum temperature sensor element is characterized by its excellent price-performance and is therefore used in mass markets. The material of the lead wire is particularly suitable for mechanical crimping connections.

Dimensions in mm

	L	B	L ₁	H	Ø
	2,5 ± 0,5	2,0 ± 0,2	10 ± 0,5	1,3 ± 0,2	0,20 ± 0,01

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)	2,5x2Pt100B-Ni	111023

Temperature range:	-70 ° C to +500 ° C in continuous operation		
	Validity of tolerance F 0.3: -70 ° C to +500 ° C		
Temperature coefficient:	TK = 3850 ppm / K		
Connecting wires:	PtNi coated wire, suitable for welding, crimping and brazing		
Long-term stability:	max. R ₀ -drift 0.05 % / year		
Vibration resistance:	see DIN EN 60751		
Insulation resistance:	> 10 M at room temperature		
Response:	water current (v = 0.4 m / s):	τ _{0,5} = 0.1 s	τ _{0,9} = 0.3 s
	Air flow (v = 2 m / s):	τ _{0,5} = 3 s	τ _{0,9} = 9 s
Measuring current:	1.0 to 7 mA (consider self-heating)		
Measuring point:	8 mm from the end of the sensor element body		
Packaging:	loose in bag / vacuum packed		
Note:	Please refer to our application and installation instructions		
RoHS compliant			