

Datasheet

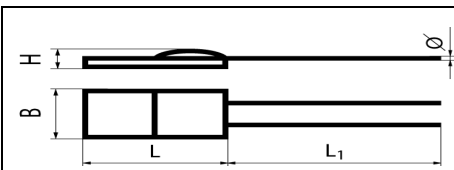
4x2Pt100-2B-150Ni

110010

Summary

This platinum temperature sensor element is characterized by its long leads, whereby in some applications for an extension of the connecting wires through cable or wires is not necessary.

Dimensions in mm

	L	B	L ₁	H	Ø
	3,9 ±0,15	1,9 ± 0,2	150 ± 1	0,9 ±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-150Ni	110010

Temperature range:	-70 ° C to +500 ° C in continuous operation (briefly up to 550 ° C possible) Validity of tolerance F 0.6: -70 ° C to +500 ° C		
Temperature coefficient:	TK = 3850 ppm / K		
Connecting wires:	nickel wire, suitable for crimping, welding and brazing		
Long-term stability:	max. R ₀ -drift 0.04% after 1000h 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:	0.3 K / mW at 0 ° C		
Response:	water current (v = 0.4 m / s):	τ _{0,5} = 0.07 s	τ _{0,9} = 0.20 s
	Air flow (v = 2 m / s):	τ _{0,5} = 3.2 s	τ _{0,9} = 11.0 s
Measuring current:	0.3 to 1 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			

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

Version 1.0 von 06/2012

