



Datasheet

5x2,0Pt100B-Ni

111066

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
	5 ± 0,5	2 ± 0,2	10 ± 0,5	1,3 ± 0,2	0,25 ± 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)	5x2,0Pt100B-Ni	111066

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:	Ni 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} = 4 s	τ _{0,9} = 16 s
Measuring current:	0,3 to 1,0 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			