

Datasheet

10x2,0Pt100-1/3B-Ag

113037

Summary

This platinum temperature sensor element is characterized by its connecting wires of silver, because of that they are particularly suitable for electrical connection through solder joint. The temperature is only designed for a range of -70 ° C to + 250 ° C.

Dimensions in mm

	L	W	L ₁	H
	10 ± 0,5	2 ± 0,2	10 ± 0,5	1,3 ± 0,2

Technical specifications

Nominal resistance R ₀ at 0°C	Specification	Tolerance	Order Number	Item Number
100 Ω	DIN EN 60751	F 0,1 (DIN 1/3 B)	10x2,0Pt100-1/3B-Ag	113037

Temperature range:	-70 °C up to +350 °C in continuous operation		
	Validity of tolerance F 0,1: -70 °C up to +200 °C		
Temperature coefficient:	TK = 3850 ppm/K		
Connecting wires:	Silver wire coated wire, suitable for welding, crimping and brazing		
Long term stability:	Max. R ₀ -Drift 0,05 % / Year		
Vibration resistance:	DIN EN 60751		
Insulation resistance:	>10 MΩ at room temperature		
Response time:	moving water (v=0,4 m/s):	τ _{0,5} =0,3 s	τ _{0,9} =0,3 s
	Airstream (v=2 m/s):	τ _{0,5} =4 s	τ _{0,9} =16 s
Measuring power:	0,1 up 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			

We reserve the right to make technical changes. All technical data serves as information and does not guarantee properties.

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