

Datasheet

10x2,0Pt100-1/3B

113034

Summary

This platinum temperature sensor element provides effective capabilities for most applications. Typical application examples can be found in air conditioning and industrial humidity measurement.

Dimensions in mm

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

Technical specification

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	113034

Temperature range:	-70 ° C to +550 ° C in continuous operation		
	Validity of tolerance: F 0.1: -50 ° C to + 200 ° 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 = 0.4m / s):	τ _{0,5} = 0.3 s	τ _{0,9} = 0.5 s
	Air flow (v = 2 m / s):	τ _{0,5} = 7 s	τ _{0,9} = 22 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			