

Datasheet

5x2,0Pt100A

112042

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
	5 ± 0,5	2,0 ± 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 0,15 (DIN A)	5x2,0Pt100A	112042

Temperature range:	-70 ° C to +550 ° C in continuous operation		
	Validity of tolerance: F 0.3: -70 ° C to + 300 ° 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 = 0.4m / 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			