

Datasheet

3x1Pt1000A-G

132011

Summary

This platinum temperature sensor element is characterized by its long-term stability over a wide temperature range. They are used particularly in the automotive, air conditioning and heating technology branch and in devices for medicine and industry.

Size in mm

	L	W	L ₁	H	Ø
	3 ± 0,15	1 ± 0,15	10 ± 1	0,8 +0,3 -0,2	0,15 ± 0,02

Technical specifications

Nominal resistance R ₀ at 0 °C	Specification	Tolerance	Order Number	Item Number
1000 Ω	DIN EN 60751	F 0,15 (DIN A)	3x1Pt1000A-G	132011

Temperature range:	-70 °C to +500 °C in continuous operation (briefly up to 550 °C possible)		
	Validity of tolerance F 0.15: -50 °C to +300 °C		
Temperature coefficient:	TK = 3850 ppm/K		
Connecting wires:	NiPt coated wire, suitable for crimping, welding and brazing		
Long-term stability:	max. R ₀ -drift 0.04 % after 1000 h 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 8 ms 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:	0.4 K / mW at 0 °C		
Response:	water current (v = 0.4 m/s):	t _{0,5} = 0.04 s	t _{0,9} = 0.12 s
	Air flow (v = 2 m/s):	t _{0,5} = 2.5 s	t _{0,9} = 8.0 s
Measuring current:	0.1 to 0.3 mA (consider self-heating)		
Measuring point:	8 mm from the end of the sensor element body		
Packaging:	Taped		
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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