

Datasheet

2x2Pt100B-AgPd-Cryo

111037

Summary

This platinum temperature sensor element is a good alternative to ceramic- and glass-wound sensors. These characteristics of the sensor is very suitable for use in analytical instruments, chemical plants and power plants.

Dimensions in mm

	L	W	L ₁	H	Ø
	1,9 ± 0,15	2,3 ± 0,2	10 ± 1	1+0,3 - 0,2	0,25 ± 0,02

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)	2x2Pt100B-AgPd-Cryo	111037

Temperature range:	-196 °C to +150 °C in continuous operation Validity of tolerance F 0,3: -196 °C to + 150 °C		
Temperature coefficient:	TK = 3850 ppm/K		
Connecting wires:	AgPd coated wire, suitable for crimping, welding and brazing		
Long-term stability:	max. R ₀ -drift 0.03 % after 1000h at 150 °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 Milliohms at 150 °C		
Self-heating:	0.4 K / mW at 0 °C		
Response:	water current (v = 0.4 m/s):	t _{0,5} = 0,06 s	t _{0,9} = 0.20 s
	Air flow (v = 2 m/s):	t _{0,5} = 3,0 s	t _{0,9} = 13.0 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:	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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