

Datasheet

4x2Pt100B-AgPd

111056

Summary

This platinum temperature sensor element is characterized by its excellent price-performance and is therefore used in mass markets.

Size in mm

	L	W	L ₁	H	Ø
	3,9 ± 0,15	2 ± 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	Artikel Number
100 Ω	DIN EN 60751	F 0,3 (DIN B)	4x2Pt100B-AgPd	111056

Temperature range:	-50 °C to +400 °C in continuous operation		
	Validity of tolerance F 0,3: -50 °C to + 400 °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 0.04 % after 1000h at 400 °C		
Vibration resistance:	At least 40 g acceleration at 10 to 2000 Hz, depends on installation		
Shock resistance:	at least 100 g acceleration with 8ms half sine wave, depends on installation		
Environmental conditions:	unprotected only in dry environments		
Insulation resistance:	> 100 Milliohms at 20 °C > 2 milliohms at 400 °C		
Self-heating:	0.3 K / mW at 0 °C		
Response:	water current (v = 0.4 m/s):	t _{0,5} = 0,08 s	t _{0,9} = 0,25 s
	Air flow (v = 2 m/s):	t _{0,5} = 3,5 s	t _{0,9} = 15 s
Measuring current:	0,3 to 1 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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