

Datasheet

4x2,2Pt100B

111053

Summary

This platinum temperature sensor element is characterized by its low resistance, which allows it to be use as a heater.

Dimensions in mm

	L	B	L₁	H	Ø
	3,9 ±0,15	2,1 ± 0,2	10 ± 1	0,9 ±0,2	0,2 ± 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)	4x2,2Pt100B	111053

Temperature range:	-70 ° C to + 500 ° C in continuous operation (briefly up to 550 ° C possible)		
	Validity of tolerance: F 0.3: -70 ° C to +500 ° C		
Temperature coefficient:	TK = 3850 ppm / K		
Connecting wires:	PtNi 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 8ms 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):	$\tau_{0,5} = 0.07$ s	$\tau_{0,9} = 0.20$ s
	Air flow ($v = 2$ m / s):	$\tau_{0,5} = 3.2$ s	$\tau_{0,9} = 11$ s
Measuring current:	0.3 to max. 0,1 mA (consider self-heating)		
Measuring point:	8 mm from the end of the sensor element body		
Packaging:	loose packed in bag / vacuum.		
Note:	Please refer to our application and installation instructions		
RoHS compliant			



Technische Änderungen behalten wir uns vor. Alle technischen Angaben sind Beschaffenheitsangaben und sichern keine Eigenschaften zu.

Version 1.0 von 06/2012

