

## Datasheet

## 4x2,2Pt1000A

132012

### Summary

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

### Dimensions in mm

	<b>L</b>	<b>B</b>	<b>L<sub>1</sub></b>	<b>H</b>	<b>Ø</b>
	3,9 ±0,15	1,9 ± 0,2	10 ± 1	1,0 ±0,2	0,2 ± 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)	4x2,2Pt1000A	132012

Temperature range:	-50 ° C to +400 ° 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:	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:	0.1 to max. 0,3 mA (consider self-heating)		
Measuring point:	8 mm from the end of the sensor element body		
Packaging:	loose packed in bag / vacuum.		
<b>Note:</b>	<b>Please refer to our application and installation instructions</b>		
RoHS compliant			



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

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