



## Datasheet

## 2x2,2Pt20,2S-5

## 109002

### Summary

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

### Dimensions in mm

	<b>L</b>	<b>B</b>	<b>L<sub>1</sub></b>	<b>H</b>	<b>Ø</b>
	2,3 ± 0,15	2,1 ± 0,2	5 ± 1	0,9 ± 0,2	0,2 ± 0,02

### Technical specifications

Nominal resistance R <sub>0</sub> at 0°C	Specification	Tolerance	Order Number	Item Number
20 Ω	DIN EN 60751	F 0,3 (DIN B)	2x2,2Pt20,2S-5	109002

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 <sub>0</sub> -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):	τ <sub>0,5</sub> = 0.05 s	τ <sub>0,9</sub> = 0.15 s
	Air flow (v = 2 m / s):	τ <sub>0,5</sub> = 3.0 s	τ <sub>0,9</sub> = 10 s
Measuring current:	0.3 to max. 1 mA (consider self-heating)		
Measuring point:	3 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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