

## Datasheet

## 5x2,5Pt100A

## 112040

### Summary

This platinum temperature sensor element provides effective capabilities for most applications. Typical application examples can be found in air conditioning and industrial humidity measurement.

### Dimensions in mm

	L	B	L <sub>1</sub>	H	Ø
	5 ± 0,5	1,5 ± 0,2	10 ± 0,5	1,0 ± 0,2	0,20 ± 0,01

### Technical specification

Nominal Resistance R <sub>0</sub> at 0°C	Specification	Tolerance	Order Number	Item Number
100 Ω	DIN EN 60751	F 0,15 (DIN A)	5x1,5Pt100A	112040

Temperature range:	-70 ° C to +550 ° C in continuous operation		
	Validity of tolerance: F 0.3: -70 ° C to + 300 ° C		
Temperature coefficient:	TK = 3850 ppm / K		
Connecting wires:	PtNi coated wire, suitable for welding, crimping and brazing		
Long-term stability:	max. R <sub>0</sub> -drift 0.05 % / year		
Vibration resistance:	see DIN EN 60751		
Insulation resistance:	> 10 M at room temperature		
Response:	water current (v = 0.4m / s):	τ <sub>0,5</sub> = 0.1 s	τ <sub>0,9</sub> = 0.3 s
	Air flow (v = 2 m / s):	τ <sub>0,5</sub> = 3 s	τ <sub>0,9</sub> = 8 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:	loose in bag / vacuum packed		
<b>Note:</b>	<b>Please refer to our application and installation instructions</b>		
RoHS compliant			