

TH-Series - Thread Type Pt Temperature Sensor

Temperature range -40 °C to +250 °C

Performance Characteristics

- Excellent thermal conductivity
- Reliable sensor fixation
- Ease of mounting
- According to DIN EN IEC 60751

Application Examples

- HVAC
- Bus bars systems
- Heat sinks
- Motor and bearing casings

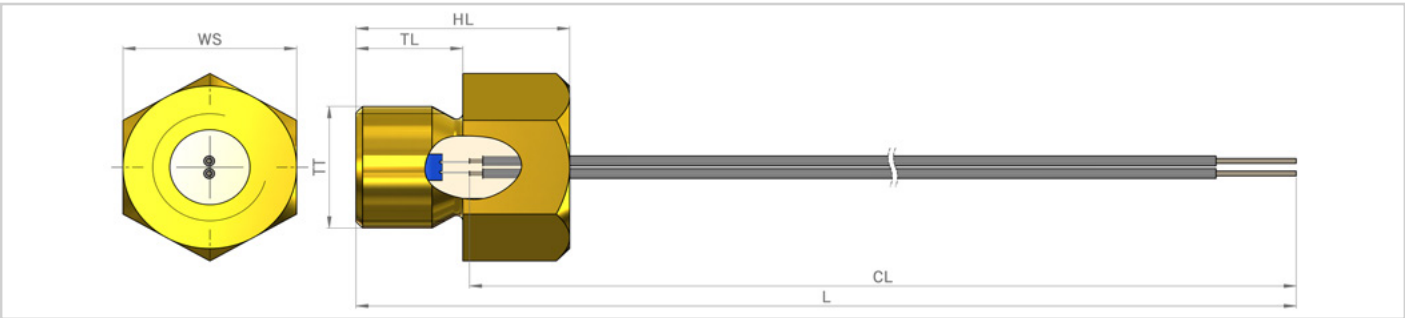


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Dimensions and Materials

No.	Product Type	Element Resistance R <sub>0</sub> [Ω]	Dimensions and Tolerances (mm)						Conductor			Order Number
			Thread Type	TL	HL	WS	CL	L	Core (AWG)	Insulation	Color	
1	TH16G1/8-T8	Pt100 / F 0.3	G1/8	8 ±0.2	16 ±0.2	13 ±0.2	200 ±10	196 ±10	26/01 Ni	PTFE	White	30010007
2	TH16G1/8-T8	Pt1000 / F 0.3	G1/8	8 ±0.2	16 ±0.2	13 ±0.2	200 ±10	196 ±10	26/01 Ni	PTFE	White	30010000

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### Performance Data

No.	Temperature Range	Housing Material	Dielectric Strength AC (Housing)	Response Time Water ( $v = 0.4 \text{ m/s}$ )		Pull Force [N]	Conductor Resistance [ $\Omega/\text{m}$ ]	Application
				T0.5 [s]	T0.9 [s]			
1	-40 °C to +250 °C	2.0401 Brass	500 V, 10 s	3.8	4.9	> 85	0.69 $\pm$ 10 %	Multi-Purpose
2	-40 °C to +250 °C	2.0401 Brass	500 V, 10 s	3.8	4.9	> 85	0.69 $\pm$ 10 %	Multi-Purpose

### Temperature Coefficient

TCR = 3850 ppm/K

### Measuring Current

Pt100  $\Omega$ : 0.3 to 1.0 mA

Pt1000  $\Omega$ : 0.1 to 0.3 mA

(self-heating has to be considered)

### Self-Heating (Sensor Element)

0.4 K/mW at 0 °C

### Customization Options

- All outer dimensions
- Conductor size and material
- Sensor resistance
- Connectors
- Certifications (e.g. IMDS, PPAP, IP rating)

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Sensor Academy!



**RoHS**  
compliant

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