

TH-Series - Thread Type Pt Temperature Sensor

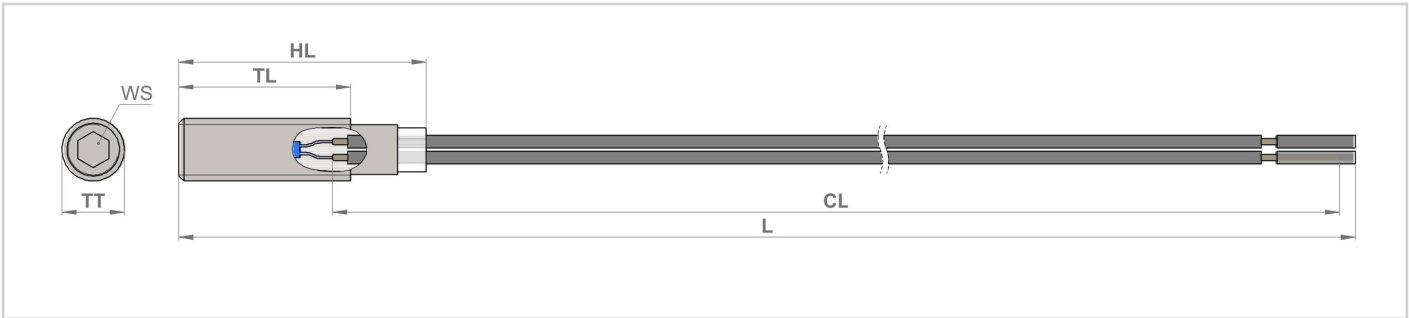
Temperature range -50 °C to +260 °C

Performance Characteristics

- Excellent thermal conductivity
- Thread tip material stainless steel
- Protected IP69
- Ease of mounting

Application Examples

- BEV / HEV Bus Bars
- Charging Guns / Infrastructure
- HVAC
- Heat sinks
- Motor and bearing casings



Dimensions and Materials

No.	Product Type	Element Resistance R ₀ [Ω]	Dimensions (mm)						Conductor			Order Number
			Thread Type	TL	HL	WS	CL	L	Core (AWG)	Insulation	Color	
1	TH14M4-T110	Pt100 / F 0.3	M4	11 ±0.3	14 +4 / -0	2 (Hex)	250 ±10	260 ±10	26/07 NPC	PTFE	Black	5202008
2	TH14M4-T110	Pt1000 / F 0.3	M4	11 ±0.3	14 +4 / -0	2 (Hex)	250 ±10	260 ±10	26/07 NPC	PTFE	Black	5202006

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Performance Data

No.	Temperature Range	Housing Material	Dielectric Strength AC (Housing)	Response Time Water ($v = 0.3 \text{ m/s}$)		Pull Force [N]	Conductor Resistance [Ω/m]	Application
				T0.5 [s]	T0.9 [s]			
1	-50 °C to +260 °C	Stainless Steel	3000 VAC, 60 s	4.9	12.3	>30	0.138 $\pm$ 25%	Multi-Purpose
2	-50 °C to +260 °C	Stainless Steel	3000 VAC, 60 s	4.9	12.3	>30	0.138 $\pm$ 25%	Multi-Purpose

Temperature Coefficient

TCR = 3850 ppm/K

Measuring Current

Pt100 Ω : 0.3 to 1.0 mA

Pt1000 Ω : 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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