

PRODUCT OVERVIEW

YAGEOs Thread Tip Temperature Sensor consists of a Pt sensor element mounted in an M4 thread for excellent thermal conductivity. The sensor is designed for use in environments where precise temperature control and monitoring are critical. With an **operating range from -50 °C to 260 °C** and **high dielectric strength of 3 kV**, the sensor is ideal for applications for BEV & HEV Bus bars, EV charging and industrial automation.

Quick Facts

Nominal resistance: Pt 100 or Pt 1000

Class: F 0.3 (B) according to DIN EN 60751

Operating temperature: -50 °C to 260 °C

Housing: M4 Thread tip, stainless steel

Contact & Information

For special requests (custom designs, etc.), contact regional Product Managers.



Sensors

Temperature

Thread Tip Series: TH14M4



Key Selling Points

Features

Dielectric strengths ≥ 3 kV AC

Protection class IP69

Cable pull force min. 30 N

1000h @260°C tested

Miniaturized M4 Thread Tip

Custom Designs Available

Customer Value

Electrical safety to prevent breakdowns

Reliability in harsh conditions

Resistant against harsh operations

Highly durable and long-term stability over lifetime

Ease of installation for small

Flexibility for OEM-specific requests

Target Applications

- **Charging Infrastructure**
- **BEV / HEV bus bars**
- **Heat sinks**
- **Motor and bearing casings**

Market Advantages

- **Enhanced Safety Compliance:** Dielectric strength ≥ 3 kV AC supports use in high-voltage environments and meets safety standards for EV and industrial applications
- **Reduced Downtime:** Proven durability with testing ensures long-term reliability
- **Differentiation in High-Voltage Applications:** Ideal for BEV/HEV bus bars, offering a competitive edge over standard temperature sensors