

## PRODUCT OVERVIEW

**YAGEO's 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  $\geq 3$  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  $\geq 3$  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