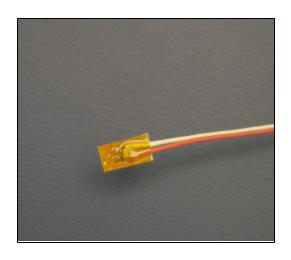


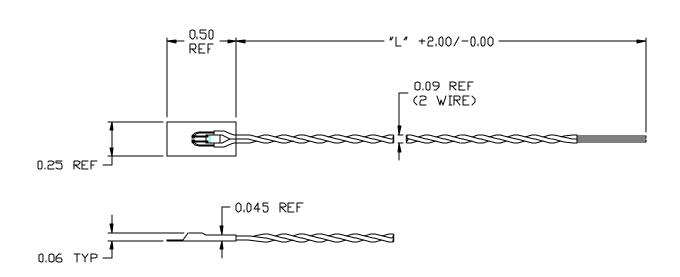
SEALED PLATINUM SURFACE TEMPERATURE SENSOR MODEL 29399



This low cost, sealed platinum surface RTD is the world's toughest for surface temperature measurement. The IEC 751 sensor is refractory sealed for ±0.05°C stability. Its small strong design allows this package to conform on curved surfaces for accurate response in milliseconds. Leads welded within the sealed RTD provide this sensor's durablity. Moisture resistance for condensing environments is provided by Kapton® lamination that encapsulates the assembly. Standard operating range is -50°C to 150°C.

- Strong welded leads
- Full platinum RTD stability
- Tough
- Moisture resistant

- Strain isolated
- Temperature range is -50°C to 150°C
- Time constant is 0.3 seconds on metal surfaces
- Long-term stability better than $\pm 0.05^{\circ}$ C (0.02 Ω) per 5 years



Performance Specifications

Temperature Range

-50°C to 150°C (-60°F to 300°F)

Sensing Element

International grade thin film platinum $\alpha = 0.00385 \ \Omega/\Omega/^{\circ}C$

Ice Point Resistance

 $1000 \pm 1.2\Omega$, (± 0.3 °C) International Class B, (± 0.12 %)

Time Constant

< 0.3 Seconds on metal surfaces

Self-Heating

>15 mW/°C mounted

Interchangeability

 $\pm (0.3^{\circ}\text{C} + 0.005|t|^{\circ}\text{C}),$ IEC 751 Class B

Long Term Stability

Better than 0.05°C (0.02Ω) per 5 years

Insulation Resistance

>50 MegOhms at 50VDC at 25°C

Maximum Current

2 mA for limited self heating

Recommended Current

1 mA maximum

Case Material

Kapton®, Sensor is refractory passified overall before lamination

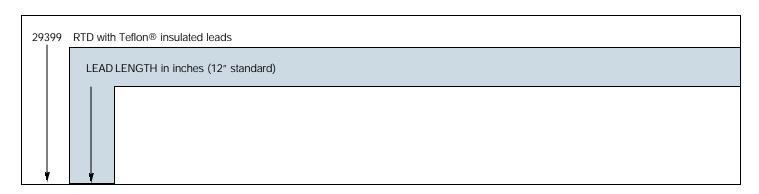
Lead Material

26 AWG nickel-plated, stranded copper TFE Teflon® insulated twisted leads

Size Reference

0.25" wide x 0.5" long Thickness over sensor: 0.06" Thickness over leads: 0.045"

Ordering Specifications



29399 – 12 – Typical write-up for 29399





