

3000 | SERIES

TEMPERATURE SENSOR PROBES

Introduction

Ideal solution for monitoring and regulating temperature in equipment and processes. It offers the choice of thermistor or RTD temperature sensing technology. Since no single technology is optimal for every application, the 3000 series offers several thermal sensing options, each of which offers unique advantages.

The 3000 series offers the advantage of today's best temperature sensing technology in standard, low-cost probe assemblies that ensure the technology performs accurately and reliably in demanding applications. Whether surface, liquid, or ambient air sensing is required, the 3000 series is an optimal probe assembly. Flexible leads suitable for welding or soldering provide reliable connections and greater access to remote locations.



Features

- Stainless steel probe assemblies
- Thermistor, or RTD sensing technologies
- Ideal for immersion, surface and air sensing

Applications

- Surface, liquid, or air temperature sensing
- Control systems



Body Style

C Α F (17.53 ± 0.254) 0.690 ± 0.010 HEX $\frac{(22.10 \pm 0.254)}{0.870 \pm 0.010} \text{ HEX}$ LEAD LENGTH LEAD LENGTH LEAD LENGTH LABEL LABEL ± 1.00 (25.4) ± 1.00 (25.4) ± 1.00 (25.4) LABEL 3/8 - 18 NPT 1/2 - 14 NPT THREADS THREADS PROBE LENGTH ± 0.030 (0.762) PROBE LENGTH PROBE LENGTH ± 0.030 (0.762) ± 0.030 (0.762) (6.35 ± 0.127) 0.250 ± 0.005 (6.35 ± 0.127) (6.35 ± 0.127)

STRAIGHT PROBE 300 STAINLESS STEEL #22 AWG STRANDED, XLPE INSULATED 3/8 - 18 NPT THREADED PROBE 300 STAINLESS STEEL #22 AWG STRANDED, XLPE INSULATED

 0.250 ± 0.005

1/2 - 14 NPT THREADED PROBE 300 STAINLESS STEEL #22 AWG STRANDED, XLPE INSULATED

0.250 ± 0.005



SENSOR SELECTION

Code	Туре	Input	Output	Output Change W/ Temperature	Sense Element Tolerance	Temperature Range
10	RTD	1 mA	100 Ω at 0°C	0.385 Ω per °C	±0.15°C at 0°C	-40°C to 125°C
31	THERMISTOR	0.4 mA	10,000Ω at 25°C	NON-LINEAR (NTC)	±0.6°C at 25°C	-40°C to 125°C

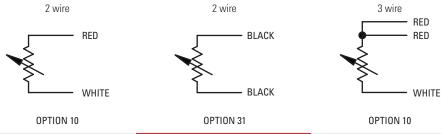
Notes:

⁻ Consult Sensata for other less standard temperature sensing options



CODE	SENSOR WIRING		
2	Wires for sensor codes 10, 31		
3	Wires for sensor codes 10		

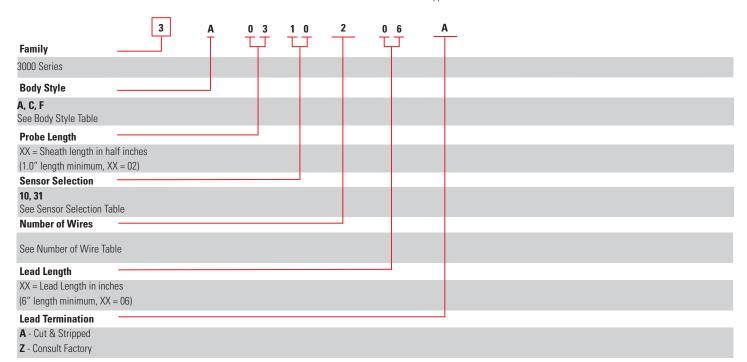






(Example: 3A0310206A)

3A = 3000 series, straight probe, 03 = 1.5'' length, 10 = RTD, 2 = 2 wire, 06 = 6'' leads, A = cut & stripped







RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.

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