



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

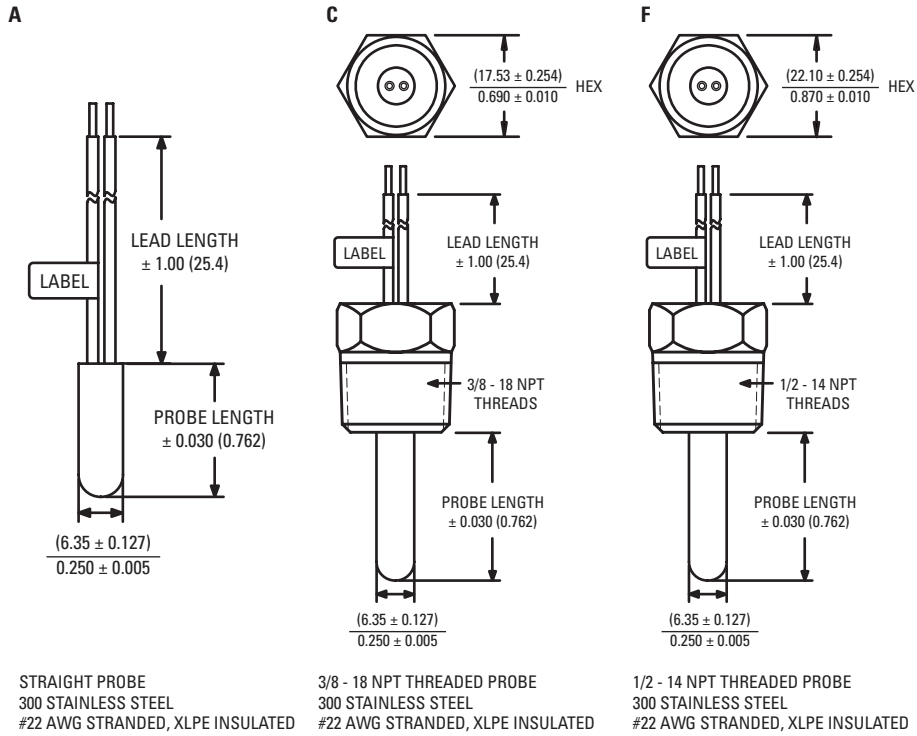
Applications

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



ACCESSORIES AND OPTIONS

Body Style



SENSOR SELECTION

| Code | Type | Input | Output | Output Change W/ Temperature | Sense Element Tolerance | Temperature Range |
|------|------------|--------|-----------------|------------------------------|-------------------------|-------------------|
| 10 | RTD | 1 mA | 100Ω at 0°C | 0.385Ω 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

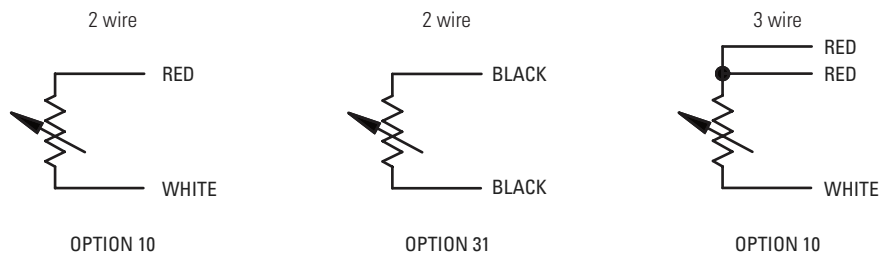


NUMBER OF WIRES

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



WIRE COLOR SCHEMATIC





ORDERING OPTIONS

(Example : 3A0310206A)

*Consult Sensata for other less standard temperature sensing options

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

| | | | | | | | |
|---|----------|----------|-----------|-----------|----------|-----------|----------|
| | 3 | A | 03 | 10 | 2 | 06 | A |
| Family | | | | | | | |
| 3000 Series | | | | | | | |
| Body Style | | | | | | | |
| A, C, F | | | | | | | |
| See Body Style Table | | | | | | | |
| Probe Length | | | | | | | |
| XX = Sheath length in half inches (1.0" length minimum, XX = 02) | | | | | | | |
| Sensor Selection | | | | | | | |
| 10, 31 | | | | | | | |
| See Sensor Selection Table | | | | | | | |
| Number of Wires | | | | | | | |
| See Number of Wire Table | | | | | | | |
| Lead Length | | | | | | | |
| XX = Lead Length in inches (6" length minimum, XX = 06) | | | | | | | |
| Lead Termination | | | | | | | |
| A - Cut & Stripped Z - Consult Factory | | | | | | | |



WARNINGS



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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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas

+1 (888) 438 2214
sensors@sensata.com

Europe, Middle East & Africa

+359 (2) 804 7165
temperature-info.eu@sensata.com

Asia Pacific

sales.isasia@list.sensata.com
China +86 (21) 2306 1500
Japan +81 (45) 277 7117
Korea +82-10-9218-1179
India +91 (80) 67920890
Rest of Asia +886 (2) 27602006
ext 2808

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