

## **AIRPAX® | 3000 Series** TEMPERATURE SENSOR PROBES

### FEATURES

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

### DESCRIPTION

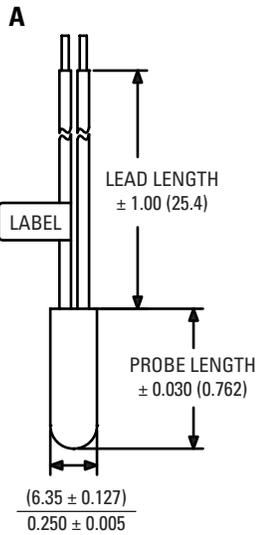
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The Airpax™ 3000 series is part of Sensata's growing line of standard temperature sensors. An ideal solution for monitoring and regulating temperature in equipment and processes, the 3000 series offers the choice of thermistor, RTD or Integrated Circuit (IC) temperature sensing technology.

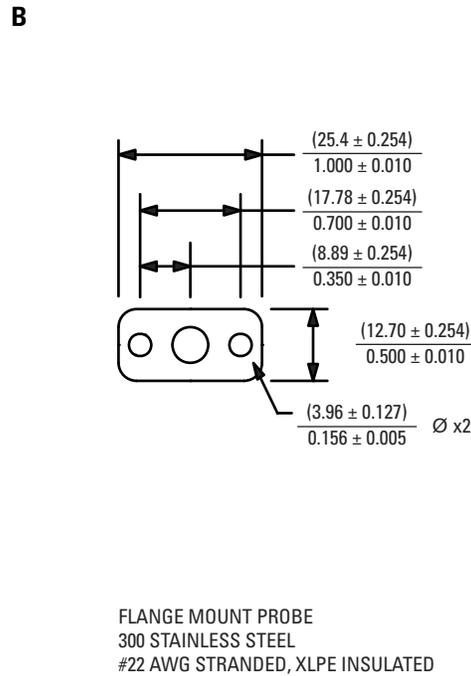
Since no single technology is optimal for every application, the VeriSense™ 3000 offers several thermal-sensing options from which to choose. Thermistor, RTD or Integrated Circuit sensing elements are available. Each of these technologies offers unique advantages. Airpax experts can help select the right temperature sensing technology for a specific application.

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 Airpax™ 3000 series offers an optimal probe assembly. Flexible leads suitable for welding or soldering provide reliable connections and greater access to remote locations.

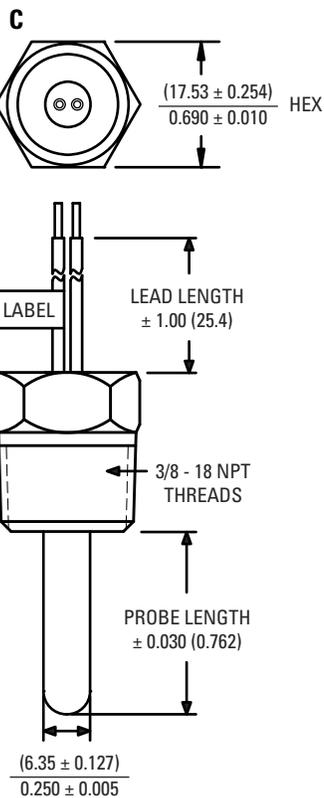
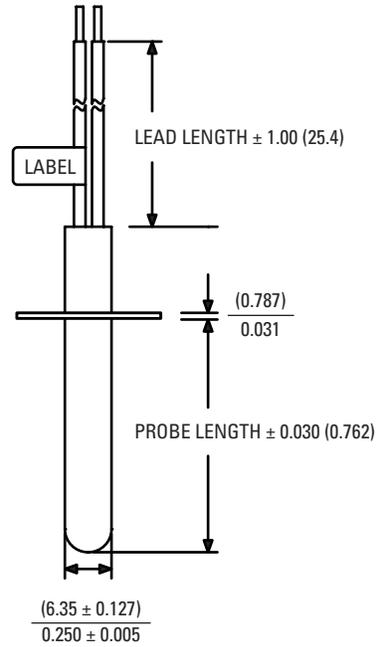
1. BODY SELECTION



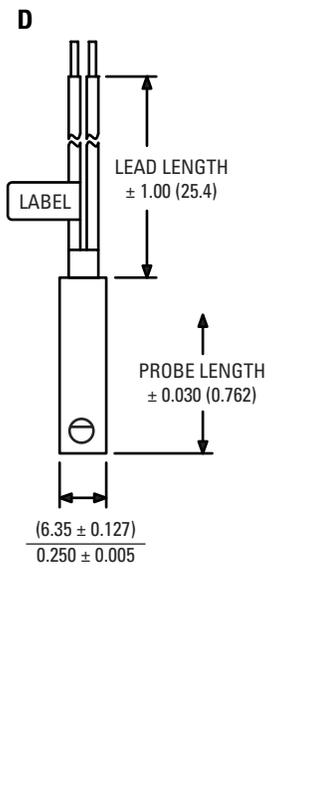
STRAIGHT PROBE  
300 STAINLESS STEEL  
#22 AWG STRANDED, XLPE INSULATED



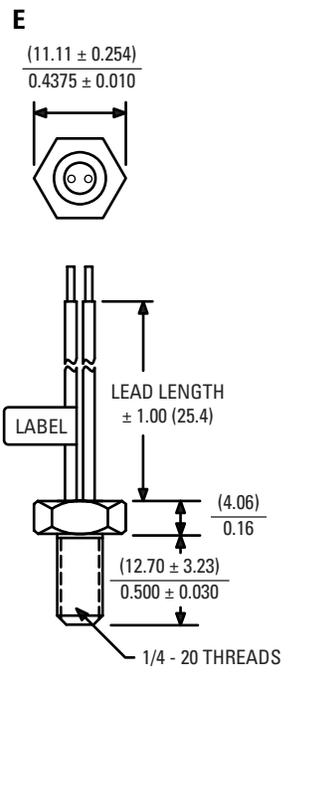
FLANGE MOUNT PROBE  
300 STAINLESS STEEL  
#22 AWG STRANDED, XLPE INSULATED



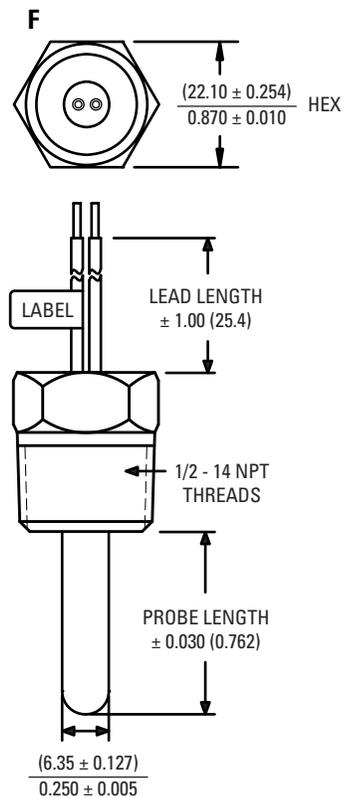
3/8 - 18 NPT THREADED PROBE  
300 STAINLESS STEEL  
#22 AWG STRANDED, XLPE INSULATED



STRAIGHT PROBE  
300 STAINLESS STEEL  
#22 AWG STRANDED, XLPE INSULATED



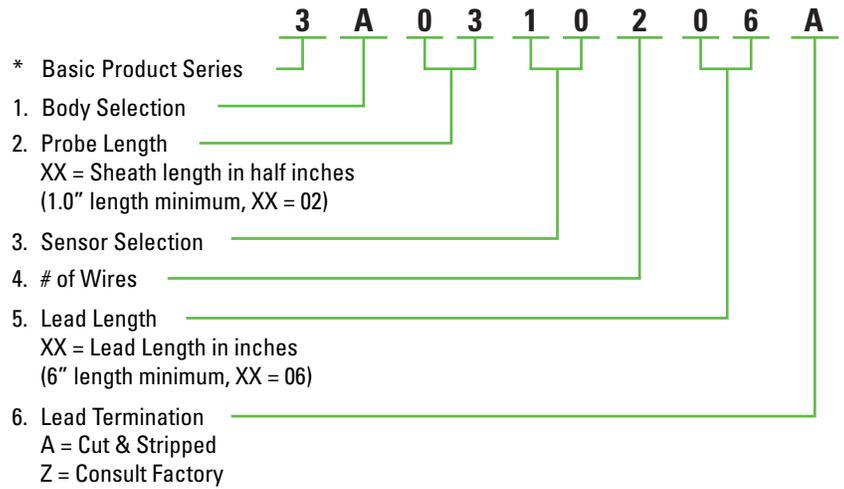
1/4 - 20 THREADED BOLT  
300 STAINLESS STEEL  
#22 AWG STRANDED, XLPE INSULATED



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

**EXAMPLE : 3 A 03 10 2 06 A**

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



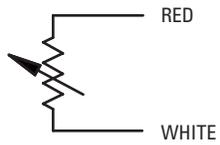
### 3. SENSOR SELECTION

CODE	TYPE	INPUT	OUTPUT	OUTPUT CHANGE W/ TEMPERATURE	TOLERANCE	TEMPERATURE RANGE
10	RTD	1 mA	100Ω at 0°C	0.385Ω per °C	±0.06Ω at 0°C	-40°C to 125°C
11	RTD	1 mA	100Ω at 0°C	0.385Ω per °C	±0.12Ω at 0°C	-40°C to 125°C
15	RTD	1 mA	1,000Ω at 0°C	3.85Ω per °C	±1.2Ω at 0°C	-40°C to 125°C
20	IC	4 to 30 VDC	0.000 Volts at 0°C	10mV per °C	±1°C at 25°C	0°C to 100°C
21	IC	2.7 to 10 VDC	0.600 Volts at 0°C	10mV per °C	±3°C at 25°C	-25°C to 85°C
30	THERMISTOR	10 mA	1,000Ω at 25°C	NON-LINEAR (PTC)	±1.3°C at 25°C	-40°C to 125°C
31	THERMISTOR	0.4 mA	10,000Ω at 25°C	NON-LINEAR (NTC)	±0.2°C, 0°C to 70°C	-40°C to 125°C
ZZ	CONSULT FACTORY	CONSULT FACTORY	CONSULT FACTORY	CONSULT FACTORY	CONSULT FACTORY	CONSULT FACTORY

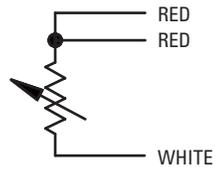
### 4. NUMBER OF WIRES

CODE	SENSOR WIRING
2	2 wires for sensor codes 10, 11, 15, 30, 31
3	3 wires for sensor codes 10, 11, 15, 20, 21
4	4 wires for sensor codes 10, 11, 15

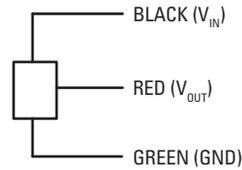
## WIRE COLOR SCHEMATIC



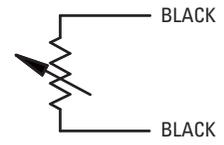
OPTION 10, 11, 15



OPTION 10, 11, 15



OPTION 20, 21, 22



OPTION 30, 31



### SENSATA TECHNOLOGIES

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