

Low Profile "Button" Sensor



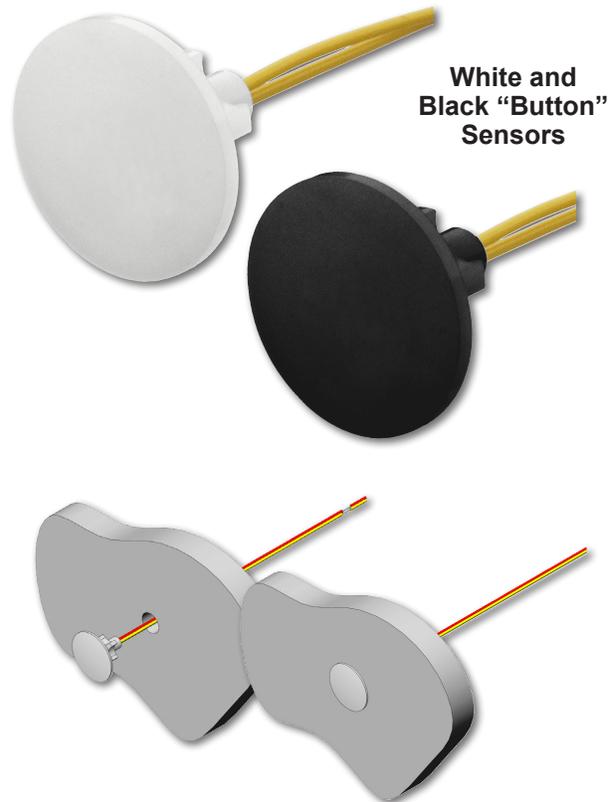
Temperature Sensors

Features & Options

- Small Flush Sensor Mounting
- Accurate Direct Air Measurement
- Paintable with Latex or Oil Base
- Wide Selection of Sensing Elements
- Limited Lifetime Warranty

The Low Profile "Button" Sensor is ideal for locations where aesthetics are as important as the temperature measurement. The inconspicuous wall sensor mounts easily by pushing through a 12mm hole and secured with a peel-off insulating adhesive ring. The only visible portion is a flush 22mm dot on the wall.

The Low Profile "Button" Sensor is available in white or black with multiple thermistor or RTD sensors as shown in the ordering grid. Other sensor types are available on request.



Specifications

Thermistor

Temp. Output..... Resistance
Accuracy (Std) $\pm 0.36^{\circ}\text{F}$, ($\pm 0.2^{\circ}\text{C}$)
Stability $< 0.036^{\circ}\text{F}/\text{Year}$, ($< 0.02^{\circ}\text{C}/\text{Year}$)
Heat dissipation $2.7 \text{ mW}/^{\circ}\text{C}$
Temp. Drift $< 0.02^{\circ}\text{C}$ per year
Probe range -40° to 221°F (-40° to 105°C)

RTD

Platinum (PT)..... 100Ω or $1\text{K}\Omega$ @ 0°C , 385 curve
Platinum (PT)..... $1\text{K}\Omega$ @ 0°C , 375 curve
PT Accuracy (Std).. 0.12% @Ref, or $\pm 0.55^{\circ}\text{F}$, ($\pm 0.3^{\circ}\text{C}$)

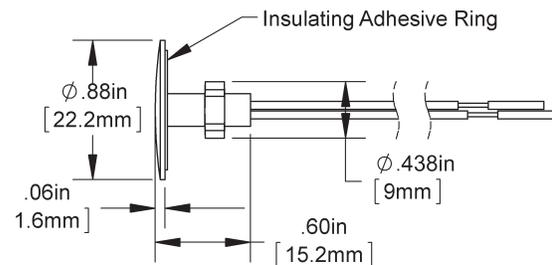
PT Stability $\pm 0.25^{\circ}\text{F}$, ($\pm 0.14^{\circ}\text{C}$)
PT Self Heating $0.4^{\circ}\text{C}/\text{mW}$ @ 0°C
PT Probe range -40° to 221°F , (-40 to 105°C)
Nickel (Ni) $1\text{K}\Omega$ @ 70°F , JCI curve
Ni Probe range -40° to 221°F (-40 to 105°C)

Sensitivity

Thermistor Non-linear

RTD (PT) $3.85\Omega/^{\circ}\text{C}$ for $1\text{K}\Omega$ RTD
 $3.75\Omega/^{\circ}\text{C}$ for $1\text{K}\Omega$ RTD
Nickel (Ni) $2.95\Omega/^{\circ}\text{F}$ for the JCI RTD

Wiring: One pair of 22 AWG wires



Wire Insulation:

Etched Teflon or Plenum-Rated

Mounting: 12mm hole, push in plastic sheath with peel-off insulating adhesive ring.

Enclosure Material and Ratings:

Plastic, NEMA 1, UL94

Environmental Operating Range

Unit with Etched Teflon Wire:
 -40 to 185°F (-40 to 85°C)

Unit with Plenum-Rated Wire:
 -4 to 167°F (-20 to 75°C)

0 to 100% RH, Non-condensing

Agency: RoHS, CE

