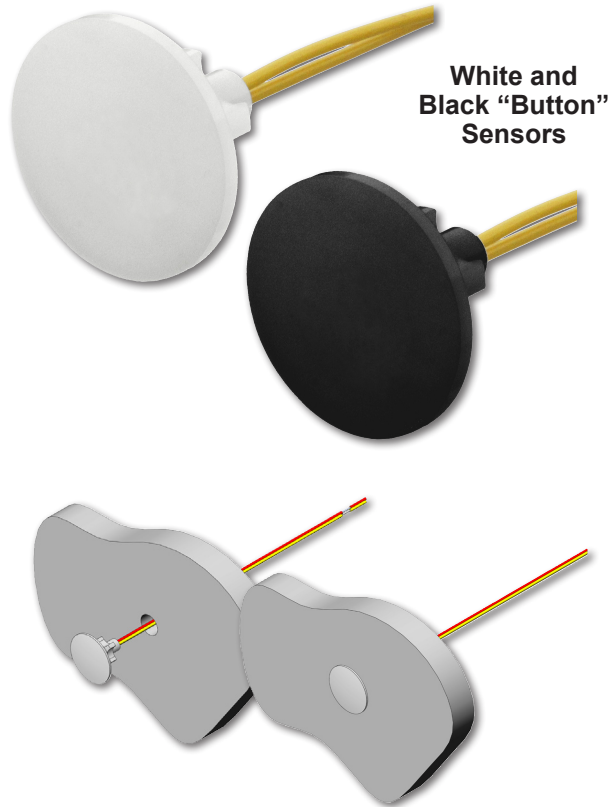


## Features & Options

- 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 1/2" hole and secured with a peel-off insulating adhesive ring. The only visible portion is a flush 7/8" 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.



White and Black "Button" Sensors

## 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 mW/ $^{\circ}\text{C}$   
 Temp. Drift .....  $< 0.02^{\circ}\text{C}$  per year  
 Probe range .....  $-40^{\circ}$  to  $221^{\circ}\text{F}$  ( $-40^{\circ}$  to  $105^{\circ}\text{C}$ )

### RTD

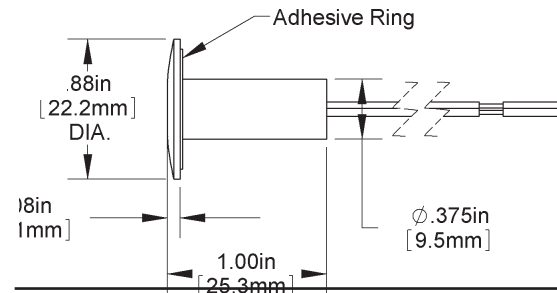
Platinum (PT)..... 100 $\Omega$  or 1K $\Omega$  @ $0^{\circ}\text{C}$ , 385 curve  
 Platinum (PT)..... 1K $\Omega$  @ $0^{\circ}\text{C}$ , 375 curve  
 PT Accuracy (Std).. 0.12% @Ref, or  $\pm 0.55^{\circ}\text{F}$ , ( $\pm 0.3^{\circ}\text{C}$ )

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

### Sensitivity

Thermistor ..... Non-linear  
 Go to [bapihvac.com](http://bapihvac.com) "Sensor Specs"  
 RTD (PT) ..... 3.85 $\Omega/^{\circ}\text{C}$  for 1K $\Omega$  RTD  
 3.75 $\Omega/^{\circ}\text{C}$  for 1K $\Omega$  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:** 1/2" 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  $185^{\circ}\text{F}$  ( $-40$  to  $85^{\circ}\text{C}$ )

Unit with Plenum-Rated Wire:  
 $-4$  to  $167^{\circ}\text{F}$  ( $-20$  to  $75^{\circ}\text{C}$ )

0 to 100% RH, Non-condensing

**Agency:** RoHS, CE



# Low Profile "Button" Sensor

# B23

## Temperature Sensors

Submittal sheets without List Prices are available on our website at [www.bapihvac.com](http://www.bapihvac.com)

Use the Configurator below to create your custom part number. Replace the number and parenthesis with the designator for each selection. Skip the designator and dashes for optional selections that are not required in your configuration.



### Button Sensor Option Selection Guide:

BA/ ( #1 ) - ( #2 ) - ( #3 )

**#1: Temperature Sensor** (required)

1K[375].....	1K Platinum RTD (375 curve).....	\$25
1K[NI].....	1K Ω Nickel RTD .....	\$65
1K.....	1K Platinum RTD (385 curve).....	\$25
1.8K.....	1.8K Thermistor .....	\$18
3K.....	3K Thermistor .....	\$18
10K-2.....	10K-2 Thermistor .....	\$18
10K-3.....	10K-3 Thermistor .....	\$18
20K.....	20K Thermistor .....	\$18

**#2: Button Sensor Color** (required)

LPW.....	Button Sensor, White.....	\$7
LPB.....	Button Sensor, Black.....	\$12

**#3: Lead Length** (optional, 6" Etched Teflon Leads are Standard)

5.....	5 Feet of Plenum-Rated Cable .....	\$2
10.....	10 Feet of Plenum-Rated Cable .....	\$4
15.....	15 Feet of Plenum-Rated Cable .....	\$6

*Additional options are available for these units but not shown in this Selection Guide. Contact your BAPI representative for the complete list of options. Submittal sheets without List Prices can be downloaded from our website at [www.bapihvac.com](http://www.bapihvac.com)*

**Example Number:** BA/ ( 10K-2 ) - ( LPW ) - ( 5 )

**Actual Number (with parenthesis removed):** BA/10K-2-LPW-5

**Description:** 10K-2 Thermistor Temperature Sensor, White Button Sensor, 5 Feet of Plenum-Rated Leads.

**List Price:** \$18 (Thermistor) + \$7 (White Button Sensor) + \$2 (5' Leads) = \$27 List Price

**Your Number:** BA/

