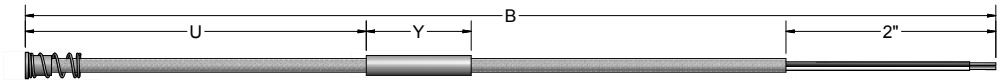
The miniature sensors are designed to measure the critical temperature of equipment such as sleeve bearings, thrust bearings, bearing shoes, and various other bearings where temperature is critical to performance. These types of bearings are generally used in the operation of high-speed rotating equipment such as compressors, generators, and turbines. The sensors are typically imbedded or installed beneath the Babbitt layer of the bearing to monitor the temperature, allowing early warning of the breakdown of the lubricants. This early warning allows preventative maintenance to take place before major problems occur.



ORDER CODES

Example Order Number:

0		1	1-1		2		3		4		5
HL30	-	RBF185LBS	3	-	BST	-	3P02(1/2),24	-	T3120	-	2

0 ATEX Certification[1]

CODE	DESCRIPTION
HL30	ATEX Certified CE Ex II3G Ex ic IIC T4
[1] Selection optional, not required for general-purpose sensors	

1-1 Element Connection

CODE	DESCRIPTION
2	2-Wire
3	3-Wire

2 Case Options

CASE STYLE	
CODE	**DESCRIPTION**
A	0.275" O.D. x 0.250" Long
B	0.188" O.D. x 0.250" Long
BS	0.188" O.D. x 0.250" Long (Includes spring and washer)
C[1]	0.125" O.D. x 0.300" Long
D[1]	0.080" O.D. x 0.300" Long
CASE MATERIAL	
CODE	**DESCRIPTION**
T	Tin-plated copper
N	Nickel-plated copper
[1] Not available in duplex	

3 Sealing Options

CODE	DESCRIPTION
00	No sealing option
E "U"	Elastomer fill (must specify length of elastomer fill "u" dimension) 72" maximum fill length. T3BT wire type must be specified.
3P"Y", "U"	3/16" O.D. pass through (must specify "Y" length and "U" length)
4P"Y", "U"	1/4" O.D. pass through (must specify "Y" length and "U" length)

4 Extension Leadwire Type ("B" Dimension)

CODE	DESCRIPTION
T3J	Fluoropolymer insulation-individual leads-stranded conductor
T3	Fluoropolymer insulation-stranded conductor
T3B	Fluoropolymer insulation-stranded conductor-stainless steel overbraid
T3BT	Fluoropolymer insulation-stranded conductor-stainless steel overbraid-flouropolmer outer jacket

5 Termination

CODE	DESCRIPTION
0	No Termination
2	2" split leads 1/4" strip
3	2" split leads with spade lugs

1 100 Ω Platinum RTD Elements (-40 to 204 °C)

SENSOR TYPE		DESCRIPTION	
CODE		TOLERANCE[1]	TEMPERATURE COEFFICIENT
SINGLE	DUPLEX		
RBF185LBS	RBF285LBS	Class B	α = 0.003 85 °C^{-1}
RBF192LBS	RBF292LBS	Class B	α = 0.003 92 °C^{-1}
[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.			

WIRE TYPE		CASE STYLE A [1]		CASE STYLE B [1]		CASE STYLE C [1]		CASE STYLE D [1]	
CODE	DESCRIPTION	Single	Duplex	Single	Duplex	Single	Duplex	Single	Duplex
T3J	Fluoropolymer insulation-individual leads-stranded conductor	2- or 3-wire 24 AWG	2- or 3-wire 28 AWG	2- or 3-wire 24 AWG	2- or 3-wire 28 AWG	2- or 3-wire 28 AWG	2- or 3-wire 30 AWG	2- or 3-wire 30 AWG	N/A
T3	Fluoropolymer insulation-stranded conductor	2- or 3-wire 24 AWG	2- or 3-wire 28 AWG	2- or 3-wire 24 AWG	2- or 3-wire 28 AWG	2- or 3-wire 28 AWG	2- or 3-wire 28 AWG	N/A	N/A
T3B	Fluoropolymer insulation-stranded conductor-stainless steel overbraid	2- or 3-wire 24 AWG	2- or 3-wire 28 AWG	2- or 3-wire 24 AWG	2- or 3-wire 28 AWG	2- or 3-wire 28 AWG	N/A	N/A	N/A
T3BT	Fluoropolymer insulation-stranded conductor-stainless steel overbraid-Fluoropolymer outer jacket	2- or 3-wire 24 AWG	2- or 3-wire 30 AWG	2- or 3-wire 24 AWG	2- or 3-wire 30 AWG	N/A	N/A	N/A	N/A

[1] Refer to page SP-11 for case style dimensions.