

Insertion RTD probes are used to monitor internal temperatures of meat, fish, poultry, dough, and other food products, both fresh and slightly frozen varieties. Other uses include penetration of soft process materials such as rubber and plastic compounds. The materials of construction are all FDA compliant for use in sanitary applications. The sheaths are made of full hard-drawn 304SS, hypodermic tubing with a sharp needle-point insertion tip. Several varieties of handles, leadwire, and termination configurations are available. All assemblies are 3-wire construction and use a 100 ohm platinum element with a Temperature Coefficient of 0.003 85 °C<sup>-1</sup> (Class B) and are rated to 200 °C [392 °F] maximum temperature limit.

FIGURE 1

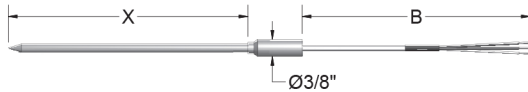


FIGURE 2



FIGURE 3

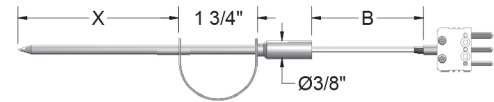
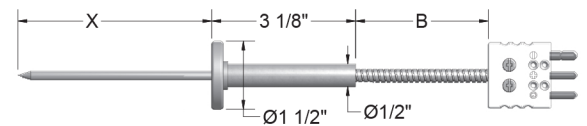


FIGURE 4



## ORDER CODES

**Example Order Number:**

**RBF185MH2**

**06**

**T3120**

**4**

**1 Pt100 ( $\alpha = 0.003\ 85\ ^\circ\text{C}^{-1}$ )  
3-Wire RTD Assemblies**

CODE		NOM. SHEATH DIAMETER (inches)
<i>SINGLE</i>	<i>DUPLEX</i>	
<i>FIGURE 1 LESS HANDLE</i>		
RBF185LH2		0.134
RBF185LH3	RBF285LH3	0.180
<i>FIGURE 2 MOLDED NYLON HANDLE 150 °C [302 °F]</i>		
RBF185MH2		0.134
RBF185MH3	RBF285MH3	0.180
<i>FIGURE 3 SABRE HANDLE</i>		
RBF185SH2		0.134
RBF185SH3	RBF285SH3	0.180
<i>FIGURE 4 HEAVY DUTY HANDLE</i>		
RBF185HD2		0.134
RBF185HD3	RBF285HD3	0.180

### 2 Sheath 'X' Dimension

Specify "X" length in inches using 2 digits plus any fractional length. Examples: 02 = 2", 02(1/2)" = 2.5"

12" max. standard construction length.

### 4 Terminations

CODE	DESCRIPTION
2	2" split leads, 1/4" stripped
3	2" split leads with spade lugs
4	Standard plug
6	Miniature plug
<b>Options</b>	
RB	Rubber boot (2 pin plugs only)
MC	Mating connector
CG	Cord grip (1/2" NPT PVC)

### 3 Extension Leadwire

CODE	DESCRIPTION	TEMP RATING
T3___ <sup>[1]</sup>	Fluoropolymer Insulation - stranded conductor	200 °C [392 °F]
T3A___ <sup>[1]</sup>	Fluoropolymer Insulation - stranded conductor - flexible armor	200 °C [392 °F]
T3T___ <sup>[1]</sup>	Fluoropolymer Insulation - stranded conductor - flexible armor - FEP coated	200 °C [392 °F]
T3P___ <sup>[1]</sup>	Fluoropolymer Insulation - stranded conductor - flexible armor - PVC-coated	105 °C [221 °F]
M3___ <sup>[1]</sup>	Fluoropolymer Insulation - stranded conductor - stainless steel overbraid - FEP Insulation	200 °C [392 °F]
S3___ <sup>[1]</sup>	Fluoropolymer Insulation - stranded conductor - silicon rubber jacket	200 °C [392 °F]

[1] Insert 3 digit "B" dimension in inches.