



## RBF

### Heat Trace or Pipe Sensor

- Heat Trace or Pipe Sensing Applications
- 316 Stainless Steel Sheath
- Moisture Resistant Heads
- 3/4" or 1/2" NPT Threaded Extension Wire Opening
- 4" to 8" Cold Leg Standard for Varying Insulation Depths
- 1" to 3" Pipe Fittings Standard
- 100 ohm RTD,  $\pm .12\%$  Accuracy
- Standard Thermocouple Types J,K,T and E Available
- Fiberglass Insulated RTD Probe
- Standard Ungrounded Thermocouple Junction
- RTD or Universal Transmitter Available (Must Specify Temperature Range)



#### Description

For measuring the surface temperature of process piping that is carrying products whose temperatures must be controlled to prevent freeze-up, or to maintain a viscosity level so that the inner medium will flow. The Thermocouple or RTD Sensor Element is made up with a 316SS sheath, and with a stainless steel mounting pad. Cold legs are available in customer specified lengths to accommodate pipe insulation thickness.

#### Approvals

Explosion Resistant Heads are rated for Class I Groups C, D, Division 1 and 2; Class II Groups E, F, G; Class III for use in hazardous locations as described by the National Electrical Code.

#### Custom Availabilities

- Connection Head Material (i.e. Polypropylene, Delrin or Cast Iron/Aluminum)
- Mounting Pad for Larger Pipe Sizes
- Hot & Cold Legs (Sheath Length)
- Sheath material (i.e. 304SS or 321SS)
- RTD Sheath Insulation Material (i.e. MGO or Teflon)

Model	Sensor	Range (°F)	
		Min	Max
RBF185M-HT	RTD	-100	900
J48U-HT	Type J	32	900
K48U-HT	Type K	900	1800
T48U-HT	Type T	-300	500
E48U-HT	Type E	32	1800

  

Code	Sheath Leg Lengths	
	Hot	Cold
0304	3"	4"
0306	3"	6"
0308	3"	8"

  

Code	Mounting Pads	
	Radius	Pipe size
18RC	1/2"	1"
18RD	3/4"	1 1/2"
18RE	1"	2"
18RF	1 1/4"	2 1/2"
18RG	1 1/2"	3"

  

Code	Connection Heads
31SB	Aluminum. NEMA 4
49SB	Flip top aluminum. NEMA 4
71SB	Explosion resistant cast iron/aluminum NEMA 4
81SB	Explosion resistant 316L SS. NEMA 4X
91SB	316L stainless steel. NEMA 4X

  

RBF185M-HT	0304	18RD	31SB	Typical Model Number
------------	------	------	------	----------------------

#### In Stock:

Model	PCN
RBF185M-HT-0304-18RC-31SB/C	317315
RBF185M-HT-0304-18RE-31SB/C	317323
RBF185M-HT-0304-18RG-31SB/C	317331
RBF185M-HT-0304-18RC-71SB/C	317340
RBF185M-HT-0304-18RE-71SB/C	317358
RBF185M-HT-0304-18RG-71SB/C	317366

ACCESSORIES AND CONTROLS