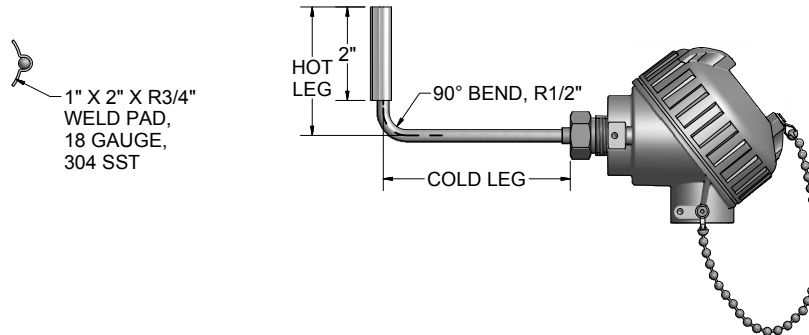


Heat-tracing temperature sensors are made for use in systems that measure the surface temperature of process pipe that is carrying products whose temperatures must be controlled to prevent freeze-up, or to maintain a viscosity level so that the inner medium will flow. These sensors are offered with either Thermocouple or RTD sensing elements inside 316SS sheaths, and with a 3/4" Radius stainless steel mounting pad. Cold legs are available in customer-specified lengths to accommodate pipe insulation thickness.



ORDER CODES

Example Order Number:

1-1 1-2 3 4 5 5-1
RBF185L483 - HT - 0304 - 18RD - 31, I

1-1 Thermocouple Styles

CODE	T/C TYPE	HOT JUNCTION STYLE	SHEATH INSULATION
JP48G	J	Grounded	Fiberglass
KP48G	K	Grounded	Fiberglass
TP48G	T	Grounded	Fiberglass
EP48G	E	Grounded	Fiberglass

For ungrounded hot junctions substitute the letter "U" in place of the "G" above.

1-2 100 Ω Platinum 3 Wire RTD Styles α = 0.003 85 °C⁻¹

CODE	TOLERANCE ^[1]	MAX. TEMP. RATING	INSULATION TYPE
RBF185L483	Class B	200 °C [392 °F]	Teflon®
RBF185M483	Class B	482 °C [900 °F]	Fiberglass
R1T185H483	Grade B	593 °C [1100 °F]	MgO

[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.

3 Sheath Lengths

CODE	HOT LEG (inches)	COLD LEG (inches)
0304	3	4
0306	3	6
0308	3	8

Consult factory for other hot leg lengths or cold leg lengths.

4 Radius Mounting Pads 1" W x 2 1/4" L x 18 Ga. 304 SS

CODE	RADIUS (inches)	NPT PIPE SIZE (inches)
18RD	3/4	1 1/2

Mounting pad is flexible enough to be formed around pipe sizes from 1" to 12" NPT pipe.

5 Standard Head Terminations

CODE	DESCRIPTION
31	Aluminum screw-cover head
34	Cast iron screw-cover head
49	Flip-top aluminum head
63	White polypropylene screw-cover head
71	Cast iron/aluminum explosion-proof head, Group C
72	DIN form B aluminum explosion-proof head, Group B
81	316 L SS explosion-proof head, Group C
82	DIN form B 316SS explosion-proof head, Group B
91	316 L Stainless steel screw-cover head

5-1 Standard Head Options

CODE	DESCRIPTION
CG	Nylon cord grip
GS	Ground screw
I	Stainless steel tag
NB	1/2" NPT nylon conduit reducer bushing
SB	1/2" NPT conduit reducer bushing
T-440 ^[1]	4-20 mA head-mounted RTD transmitter (see instrument section)
T-441 ^[2]	4-20 mA isolated head-mounted transmitter (see instrument section)
T-442 ^[2]	4-20 mA Hart® isolated head-mounted transmitter (see instrument section)

[1] Not available with option 72 or 82

[2] Not available with option 71 or 81

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