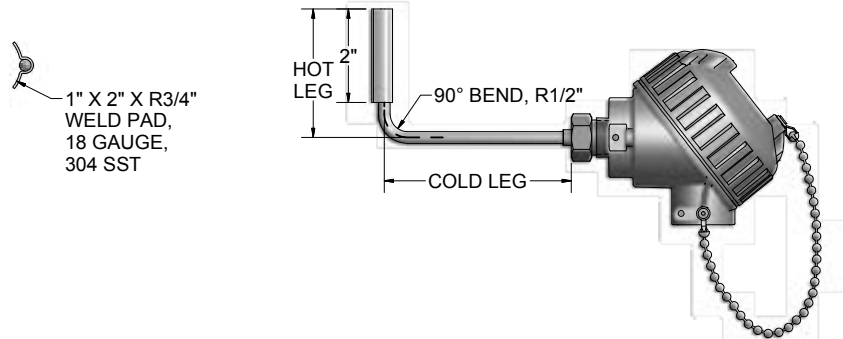


Heat-tracing temperature sensors are made for use in systems that measure the surface temperature of process pipe that is carrying products whose temperatures must be controlled to prevent freeze-up, or to maintain a viscosity level so that the inner medium will flow. These sensors are offered with either 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<sup>-1</sup>

CODE	TOLERANCE <sup>[1]</sup>	MAX. TEMP. RATING	INSULATION TYPE
RBF185L483	Class B	200 °C	PTFE
RBF185M483	Class B	482 °C	Fiberglass
R1T185H483	Grade B	600 °C	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" 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" NPS pipe.

#### 5 Standard Head Terminations

CODE	DESCRIPTION
31	Aluminum screw-cover head
34	Cast iron screw-cover head
35T-642A	(4 to 20) mA HART® Field Transmitter with aluminum general-purpose housing
36T82-D10	(4 to 20) mA dual input HART® transmitter with digital display and general-purpose aluminum housing with glass lid
37T-662A	(4 to 20) mA HART® Field Transmitter with general-purpose aluminum housing
49	Flip-top aluminum head
63	White polypropylene screw-cover head
75T-642C	(4 to 20) mA HART® field transmitter with aluminum explosion-proof housing
76T82-D10	(4 to 20) mA dual input HART® Field Transmitter with digital display and explosion-proof aluminum housing
77T-662C	(4 to 20) mA HART® Field Transmitter with dual cavity explosion-proof aluminum housing
91	316 L Stainless steel screw-cover head
93	Aluminum explosion-proof/flame-proof head, NEC, IEC, Atex approved
94	316L stainless steel explosion-proof/flame-proof head, NEC, IEC, Atex approved

#### 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	4-20 mA head-mounted RTD transmitter (see instrument section)
T-441	4-20 mA isolated head-mounted transmitter (see instrument section)
T-442	4-20 mA HART® isolated head-mounted transmitter (see instrument section)
T82-00	(4 to 20) mA dual input HART® head-mounted transmitter

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