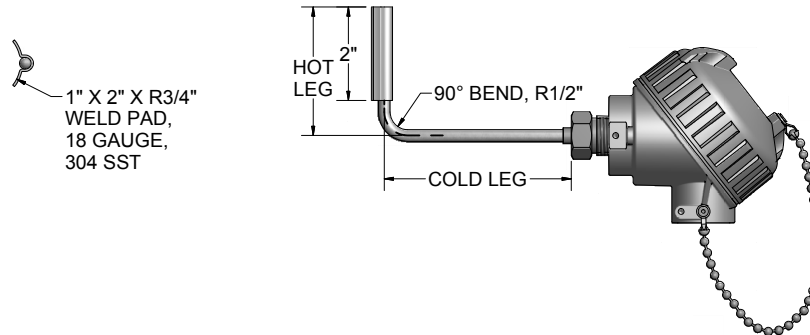


Heat-tracing temperature sensors are made for use in systems that measure the surface temperature of process pipe that is carrying products whose temperatures must be controlled to prevent freeze-up, or to maintain a viscosity level so that the inner medium will flow. These sensors are offered with either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

Teflon® is a registered trademark of E. I. du Pont de Nemours and Company.