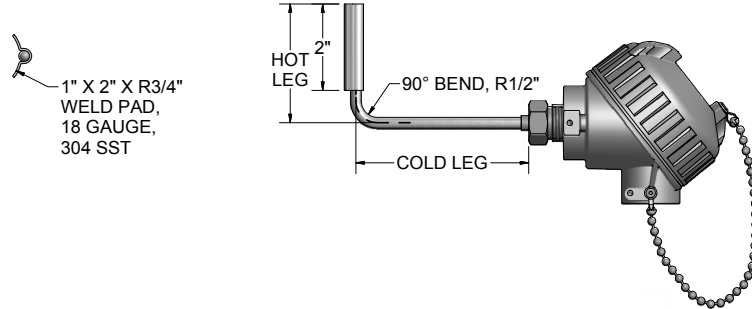


# HAZARDOUS LOCATION

Configuration Code XP08  
Hazardous Location Non-Incendive Certified,  
Heat-Tracing RTD Assemblies

Hazardous location certified Heat-Tracing RTD assemblies are designed 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 products are CSA Certified for use in US and Canada hazardous locations designated: Class I, Division 2, Group A,B,C,D; Class II, Division 2, Group F,G; Class III; and USA: Class I, Zone 2, Group IIC; Zone 22, Group IIIB; Zone 22, Group IIIC; T6...T1: with nonincendive field wiring, Ingress Protection: IP66, Type 4X. The service temperature range for Certified Assemblies is limited to -25°C to 435°C and the T-code corresponds to the higher of ambient or process temperature. These RTDs are offered in a variety of temperature ranges and are supplied with a 316SS sheath, and a 3/4" radius stainless steel mounting pad.



## ORDER CODES

**Example Order Number:**

1-0 2-0 2-1 2-2 3-0 4-0 5-0 5-1  
**HL05 - RBF185L 48 3 - HT - 0304 - 18RD - 31,OR,GS I**

### 1-0 Agency Approval

CODE	DESCRIPTION
HL05	CSA Non-Incendive Class I Division II Certified

### 2-0 100 Ω Platinum RTD Elements $\alpha = 0.00385\ ^\circ\text{C}^{-1}$

CODE		TOLERANCE <sup>[1]</sup>	TEMP. RANGE
SINGLE	DUPLEX		
R1T185L	R1T285L	Grade B	(-40 to 200) °C
R5T185L	R5T285L	(1/5) Class B	(-30 to 150) °C
RBF185L	RBF285L	Class B	(-40 to 200) °C
RAF185L	RAF285L	Class A	(-30 to 200) °C
RBF185M	RBF285M	Class B	(-40 to 450) °C
R1T185H	R1T285H	Grade B	(-40 to 450) °C
RAT185H	RAT285H	Class A	(-40 to 450) °C

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

### 2-1 Sheath Diameters

CODE	DIAMETERS (inches) 316 SS
48	1/4
68	3/8

### 2-2 Element Connection

CODE	DESCRIPTION
2	2-wire element
3	3-wire element
4 <sup>[1]</sup>	4-wire element

[1] Not available with 440 Series Transmitter

### 3-0 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.

### 4-0 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.

### 5-0 Standard Head Terminations

CODE	DESCRIPTION
31,OR,GS	Aluminum screw-cover head, Class I Div II; Type 4X/IP66
34,OR,GS	Cast Iron screw-cover head, Class I Div II; Type 4X/IP66
91,OR,GS	316L Stainless Steel screw-cover head, Class I Div II; Type 4X/IP66

### 5-1 Standard Head Options

CODE	DESCRIPTION
I	Stainless Steel Tag
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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