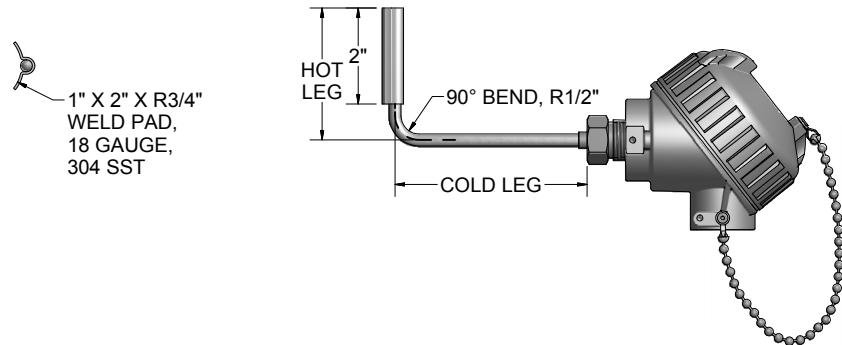


# HAZARDOUS LOCATION

## Configuration Code XP07 Hazardous Location Flame-Proof-Certified, Heat-Tracing RTD Assemblies

Flame-Proof Heat-Tracing RTD assemblies are made for use in IEC hazardous areas. They are designed to extinguish flames inside the device, eliminating the potential for ignition of flammable mixtures in the surrounding atmosphere. They are typically used 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. ATEX and IECEx certified assemblies are rated for Ex db IIC Gb and Ex tb IIC Db locations for applications with process temperatures of 180 °C or less. 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  
**HL06 - RBF185L 48 3 - HT - 0304 - 18RD - 93, I**

### 1-0 Agency Approval

CODE	DESCRIPTION
HL06	ATEX/IECEX flame-proof-certified assembly

### 2-0 100 Ω Platinum RTD Elements α = 0.003 85 °C<sup>-1</sup>

CODE		TOLERANCE <sup>[1]</sup>	TEMP. RANGE
SINGLE	DUPLEX		
R1T185L	R1T285L	Grade B	(-200 to 200) °C
R5T185L	R5T285L	(1/5) Class B	(-30 to 150) °C
RBF185L	RBF285L	Class B	(-50 to 200) °C
RAF185L	RAF285L	Class A	(-30 to 200) °C
R1T185H	R1T285H	Grade B	(-200 to 600) °C
RAT185H	RAT285H	Class A	(-100 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

[1] Not available in duplex

### 2-2 Element Connection

CODE	DESCRIPTION
2	2-wire element
3	3-wire element
4	4-wire element

### 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
75T-642E	(4 to 20) mA HART® Field Transmitter with aluminum flame-proof housing
77T-662E	(4 to 20) mA HART® Field Transmitter with dual cavity aluminum flame-proof housing
93	Aluminum flame-proof head
94	316L stainless steel flame-proof head

### 5-1 Standard Head Options

CODE	DESCRIPTION
I	Stainless Steel Tag
SB	1/2" NPT conduit reducer bushing
M2	M20x1.5 conduit reducer bushing, Nickel Plated Brass
M5	M25x1.5 conduit reducer bushing, Nickel Plated Brass
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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