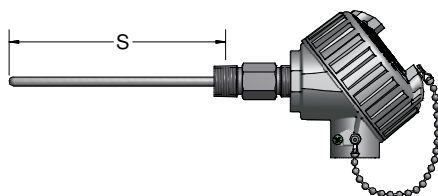


# HAZARDOUS LOCATION

Configuration Code XP05  
Hazardous Location Flame-Proof-Certified,  
Spring-Loaded RTD Assemblies

Flame-Proof, Spring-Loaded RTDs 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. ATEX and IECEx certified assemblies are rated for Ex db IIC Gb and Ex tb IIIC Db locations for applications with process temperatures of 180 °C or less. The assemblies feature 316 stainless steel sheaths. They are available with aluminum or stainless steel explosion-proof connection heads. Note: The "S" dimension will measure 1/4" longer than specified when the spring is in the relaxed position. The "S" dimension is calculated when the sensor is compressed or in the installed position. This design allows 1/4" spring compression to ensure positive contact with the bottom of the thermowell.



## ORDER CODES

**Example Order Number:** HL06 - R1T185L 48 3 - 006 - FP - 8HN 93, T- Select Type and Range from back of Section

### 1-0 Agency Approval

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

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

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 316 SS

CODE	DIAMETERS (inches)
48	1/4

### 2-2 Element Connection

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

### 5-1 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

### 5-2 Options

SB	1/2" NPT conduit reducer bushing, Aluminum
I	Stainless steel tag
M2	M20x1.5 conduit reducer bushing, Nickel Plated Brass
M5	M25x1.5 conduit reducer bushing, Nickel Plated Brass
T-441	(4 to 20) mA isolated head-mounted transmitter
T-442	(4 to 20) mA HART® isolated head-mounted transmitter
T82-00	(4 to 20) mA dual input, isolated HART® head-mounted transmitter

See transmitter ordering information in back of section.

### 5-0 Head Mounting Fittings

CODE	DESCRIPTION
<b>316 STAINLESS STEEL FITTINGS</b>	
8HN	1/2" NPT hex nipple (1-1/2" "E" length)
8XU_ <sup>[1]</sup>	1/2" NPT union/nipple (specify "E" length in inches)
[1] 3 1/2" minimum length, maximum length is 9".	

### 4-0 Element Options

FP	Spring-loaded element with flame path
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### 3-0 "S" Dimensions

Insert three digit sheath length ("S" Dimension) in inches

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