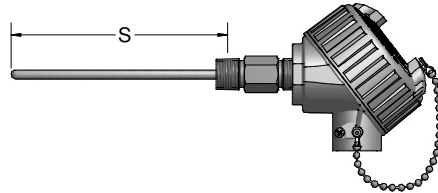


# HAZARDOUS LOCATION

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

Explosion-Proof, Spring-Loaded RTDs are made for use in U.S. and Canadian hazardous areas. They are designed to extinguish flames inside the device, eliminating the potential for ignition of flammable mixtures in the surrounding atmosphere. CSA certified assemblies, dependent on connection head type, meet XP Class I Division I & II; Groups B, C, D; DIP Class II Division I; Groups E, F, G; Class III; IP66 when installed in a thermowell. Pyromation provides sensors for installation into your existing thermowell or provides the required thermowell as part of the assembly. Refer to the Thermowell Section of this catalog for product selection. 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:** HL09 - R1T185L 48 3 - 006 - FP - 8HN 93, T Select Type and Range from back of Section

### 1-0 Agency Approval

CODE	DESCRIPTION
HL09	CSA US/CAN explosion-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 316 SS

CODE	DIAMETERS (inches)
48	1/4

### 2-2 Element Connection

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

### 3-0 "S" Dimensions

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

### 5-1 Head Terminations

CODE	DESCRIPTION
74	DIN form B aluminum explosion-proof head
75T142C	(4 to 20) mA HART® Field Transmitter with aluminum explosion-proof housing
76T71-D10	(4 to 20) mA isolated programmable transmitter with digital display and explosion-proof aluminum housing
76T72-D10	(4 to 20) mA isolated programmable HART® transmitter with digital display and explosion-proof aluminum housing
76T82-D10	(4 to 20) mA dual input HART® Field Transmitter with digital display and explosion-proof aluminum housing
93	Aluminum explosion-proof head
94	316L stainless steel explosion-proof head

### 5-2 Options

SB	1/2" NPT conduit reducer bushing
I	Stainless steel tag
T31	(4 to 20) mA head-mounted transmitter
T71-00	(4 to 20) mA isolated head-mounted transmitter
T72-00	(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 flame-path fitting (1-1/2" "E" length)
8PU4 <sup>[1]</sup>	1/2" NPT union/nipple with flame-path fitting (specify "E" length in inches, maximum allowable 9")

[1] For longer lengths replace "4" with length in inches.

### 4-0 Element Options

FP	Spring-loaded element with flame path
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