# **Explosion Proof Temperature Switches**

# Series T1X, T2X, L1X

#### **Features**

- Explosion-proof for hazardous locations
- High accuracy
- Remote, local or ambient sensing
- UL, CSA & ATEX approved
- ► NEMA 4, 7, 9 & IP65

#### **Applications**

- Oil & gas
- Heat tracing
- Printing machinery
- Compressors
- Process equipment
- Machine tools and industrial equipment



### **General Specifications\***

Accuracy: (Repeatability)	±1% of mid-60% of full range. At constant ambient +/- 0.5% of full scale. (Knob indication is reference only)
Switch: Single Setting: Dual Setting:	One (1) single pole double throw (SPDT) circuit.  Two (2) independent single pole double
	throw (SPDT) circuits.
Electrical Characteristics:	All models incorporate Underwriters' Laboratories, Inc. and CSA listed single pole double throw snap-action switching elements. Switches may be wired normally open or normally closed.
Wetted Parts:	304 stainless steel
Electrical Connection:	Single: 3-pin terminal strip Dual: 6-pin terminal strip
Electrical Ratings:	AC value at 75% power factor —10 amps 125, 250 volts AC, 3 amps 480 volts AC. Automatically reset by snap-action of switch.
Enclosure/Housing:	Designed for hazardous locations: Class I, Division 1 & 2 NEMA 4, 7, 9 & IP65 tamper-proof external adjustment, enclosed terminal strip.

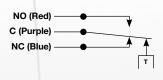
 $<sup>^{\</sup>star}$  See Product Configurator for additional options.

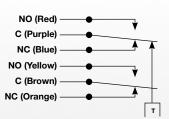
## **Wiring Code**

Lead	Circuit #1	Circuit #2
Normally Closed	Blue	Orange
Common	Purple	Brown
Normally Open	Red	Yellow

Local Mount:	Immersion length 2-1/16 inches
Bulb & Capillary:	6 and 12 foot length standard.
Approvals:	Underwriters' Laboratories, Inc. and Canadian Standard Assoc. are listed under Temperature indicating and regulating equipment, for use in hazardous locations, Class I, Groups B, C and D; Class II, Groups E, F and G.
UL (standard):	File No. E58658, Guide No. XBDV
CSA (standard):	File No. LR34556, Guide 400-E-O.8. Class 4868.
ATEX (optional):	EX models are ATEX marked as follows: C€ 0344, ISSeP 08 ATEX029X
Temperature Range:	See product configurator
Adjustment:	Tamper resistant external adjustment. Turn knob clockwise to increase setpoint. (Knob indication is reference only)
Standard Options/ Modifications:	For thermowels, split nuts and union connections, see accessory pages.
Weight:	Single - approximate 3.0 lbs. Dual - approximate 7.0 lbs.

#### Wiring Diagram

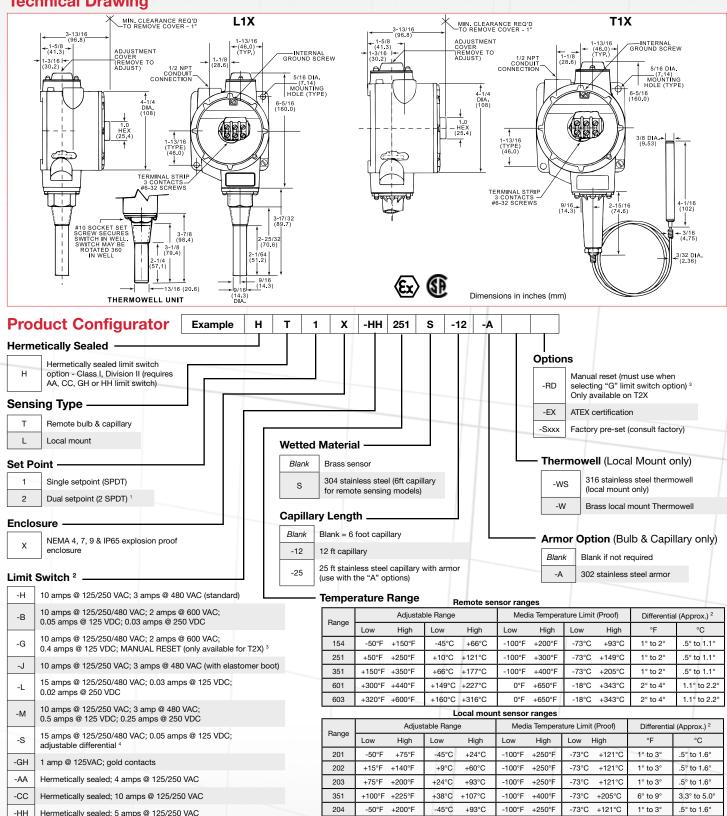






## Explosion Proof Temperature Switches Series T1X, T2X, L1X





Not available with local mount version.

-GH

Hermetically sealed; 1 amp @ 125 VAC; gold contacts

-100°F

0°F

+400°F

+500°F

-73°C

-18°C

+205°C

+260°C

6° to 9°

3° to 6°

+100°F

+150°F

+350°F

+450°F

+38°C

+66°C

+177°C

+232°C

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3.3° to 5.0°

354

454

Changing limit switch will effect deadband; See sales drawing

<sup>&</sup>lt;sup>3</sup> When selecting the manual reset option on dual setting switches (T2X), the manual reset limit switch will be on the high circuit. The low circuit limit switch must be specified by the

customer. Only available with T2X.

<sup>4</sup> When selecting the 'S' adjustable differential limit switch option on a dual setting switch (T2X), a standard 'H' switch will be paired with an 'S' switch. Dual 'S' pricing will apply.