# **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 & IP66

### **Applications**

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



## **General Specifications\***

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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:	One (1) single pole double throw (SPDT) circuit.				
Dual Setting:	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:	Class I, Division 1 & 2 NEMA 4, 7, & 9 Tamper-proof external adjustment, enclosed terminal strip.				

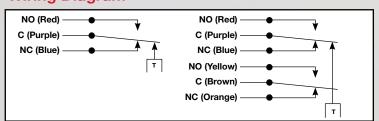
	enclosed te
* See Product Configurator for a	dditional options.

W	irii	าต	Co	de
AA	ш	19	CU	uc

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 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: <b>C</b> € 0081, ISSeP 08 ATEX024X <b>(a)</b> II 2 G D, Ex db II C T6 Gb Ex tb IIIC T80°C Db IP66 -40°C ≤ Tamb ≤ +75°C				
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 4.0 lbs. Dual - approximate 4.5 lbs.				

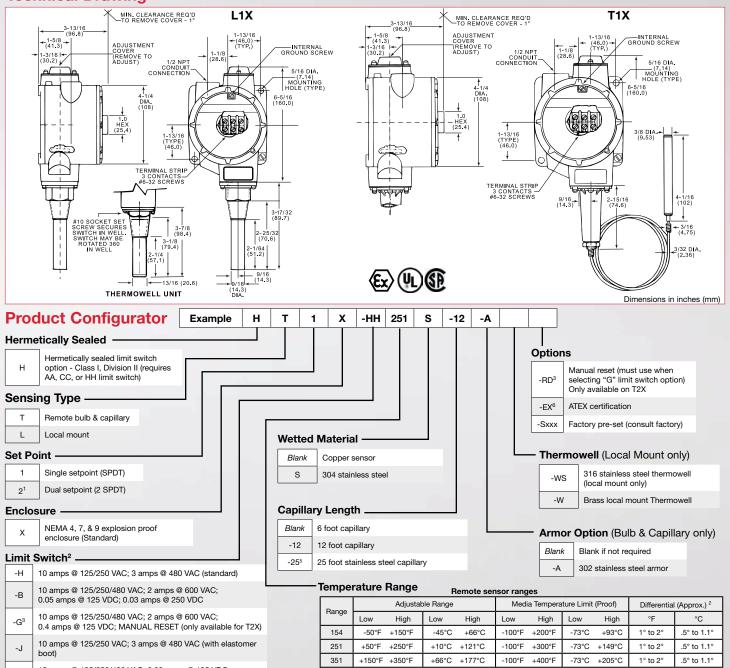
#### **Wiring Diagram**





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15 amps @ 125/250/480 VAC; 0.03 amps @ 125 VDC; -L 0.02 amps @ 250 VDC

10 amps @ 125/250 VAC; 3 amp @ 480 VAC -M 0.5 amps @ 125 VDC; 0.25 amps @ 250 VDC

15 amps @ 125/250/480 VAC; 0.05 amps @ 125 VDC; -S adjustable differential

-GH 1 amp @ 125VAC; gold contacts

Hermetically sealed; 4 amps @ 125/250 VAC -CC Hermetically sealed; 10 amps @ 125/250 VAC -HH Hermetically sealed; 5 amps @ 125/250 VAC

601 +300°F +440°F +149°C +227°C ٥°F +650°F -18°C +343°C  $2^{\circ}$  to  $4^{\circ}$ 1.1° to 2.2° 603 +320°F +600°F +160°C +316°C ٥°F +650°F -18°C +343°C 2° to 4° 1.1° to 2.2° Local mount sensor ranges

Range	Adjustable Range			Media Temperature Limit (Proof)			Differential (Approx.) 2			
	Low F	ligh	Low	High	Low	High	Low	High	°F	°C
201	-50°F +	75°F	-45°C	+24°C	-100°F	+250°F	-73°C	+121°C	1° to 3°	.5° to 1.6°
202	+15°F +14	40°F	+9°C	+60°C	-100°F	+250°F	-73°C	+121°C	1° to 3°	.5° to 1.6°
203	+75°F +20	00°F	+24°C	+93°C	-100°F	+250°F	-73°C	+121°C	1° to 3°	.5° to 1.6°
351	+100°F +22	25°F	+38°C	+107°C	-100°F	+400°F	-73°C	+205°C	6° to 9°	3.3° to 5.0°
204	-50°F +20	00°F	-45°C	+93°C	-100°F	+250°F	-73°C	+121°C	1° to 3°	.5° to 1.6°
354	+100°F +35	50°F	+38°C	+177°C	-100°F	+400°F	-73°C	+205°C	6° to 9°	3.3° to 5.0°
454	+150°F +45	50°F	+66°C	+232°C	0°F	+500°F	-18°C	+260°C	3° to 6°	1.6° to 3.3°

<sup>&</sup>lt;sup>5</sup> Add 'S' wetted material adder and 'A' armor adder to this. Capillary length '25' requires stainless steel capillary and armor.



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 rese limit switch will be on the high circuit. The low circuit limit switch must be specified by the

<sup>4</sup> When selecting the 'S' adjustable differential limit switch option on a dual setting switch 6 ATEX certification is only available with 'S' stainless steel wetted material (T2X), a standard 'H' switch will be paired with an 'S' switch. Dual 'S' pricing will apply