Explosion Proof Local Mount & Remote Bulb & Capillary Temperature Switches

Series T1X, T2X, L1X

Explosion-Proof
High Accuracy
Remote, Local or
Ambient Sensing
UL, CSA & ATEX
Approved

Barksdale's L1X, T1X & T2X Series Temperature Switches provide unmatched performance, quality & reliability in a mechanical thermostat - a safe solution for hazardous locations. The single set point L1X & T1X and dual set point T2X, can switch, measure & control temperatures from 50° to 600°F (-45° to 316°C), and meets Class 1, Div. 1 & 2 hazardous location requirements. The optional adjustable differential provides precise control. These switches can be mounted locally for control directly at the source or remotely up to 25 feet. The L1X, T1X & T2X Series are electrically rated for 10 amps @ 125/250 VAC & 3 amps @ 480 VAC. Standard 3 & 6 pin terminal strips simplify installation.

The L1X, T1X & T2X Series are rated NEMA 4, 7 & 9 and incorporate stainless steel temperature sensors to handle a wide range of media. Optional thermowells allow the sensor to work in pressurized vessels to 5000 psi. The L1X, T1X & T2X Series are UL listed & CSA approved & ATEX Certified for hazardous zones within the European Community.



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## W hen Tem perature Matters, CallBarksdale

Form any years, Barksdale tem perature switches have been switching, measuring and controlling critical processes throughout the world.

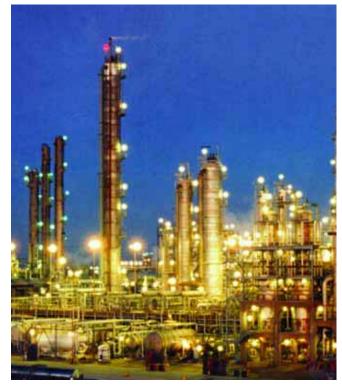
### Protect Your Equipment with Barksdale

Barksdale tem perature switches prevent dam age to heavy industrial equipment by monitoring the tem perature of engine fluids and protecting against therm alloverbads. Hydraulic power units are protected by controlling the tem perature of fluids in system s in reservoirs.

In cold climates, Barksdale temperature switches control heating devices that prevent pipes, values and fittings from freezing preventing expensive bas and down time. Barksdale thermostats also control the temperature in process piping to maintain the proper flow of media.

## Barksdale temperature switches can be used in a variety of applications:

- Hydraulic PowerUnits
- Combustion Engines
- Tanks and Reservoirs
- •Gearboxes
- Pum ps
- Com pressors
- Machine Tools and Industrial Equipment
- Fam & Construction Machinery
- Process Equipm ent



### **Need Something Special?**

If you have special product requirements, we can help.Barksdale specializes in custom design solutions to meet your needs.We have design engineers and technical specialists who are experts in solving your unique temperature problems.Our technology and resources are at your disposal.

#### **General Description**

**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.

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.

#### Performance Characteristics

Accuracy

Switch

Adjustment Local Mount Bulb & Capillary

#### Physical Weight

Enclosure/Housing

Elect. Connection

Wetted Materials Approvals/Listings

> UL CSA

### Ех

Environmental Temperature Range

Wire Coding Circuit #1 Low Circuit

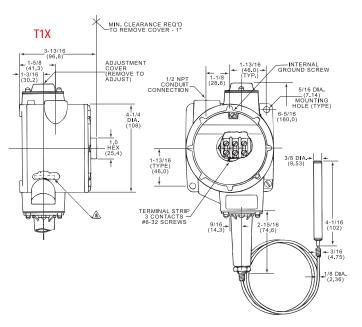
Circuit #2 High Circuit

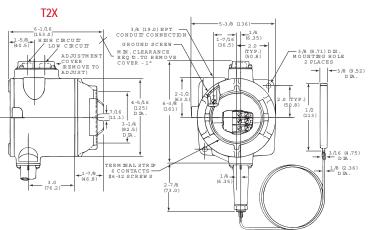


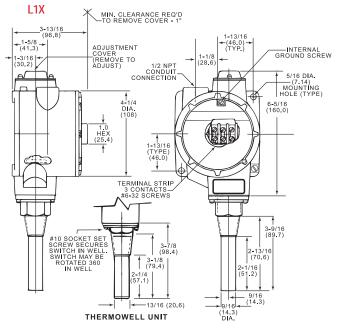
Designed for Hazardous Locations: Class I, Division 1 & 2 NEMA 4, 7, 9 Tamperproof External Adjustment, Enclosed Terminal Strip. Single: 3-Pin Terminal Strip Dual: 6-Pin Terminal Strip 304 Stainless Steel Underwriters' Laboratories, Inc. and Canadian Standard Assoc.are listed under Temperature indicating and regulating equipment, for use in hazardous locations, Class I, groups B, C and D; Class II, groups E, F and G File No. E58658, Guide No. XBDV File No. LR34556, Guide 400-E-O.8. Class 4868. ATEX EEx d IIC, T6

See Operating Characteristics and Ordering Data Chart

Common: - Purple Normally Closed - Blue Normally Open - Red Common - Brown Normally Closed - Orange Normally Open - Yellow







### **Explosion Proof Temperature Switches Configurator**

## Series T1X, T2X, L1X

Enclosure H Hermetically Sealed Limit Switch; Class I Div 2, Hazardous Location

	Sensor T Remote Bulb											
L Local Mount												
Switch 1 S	1 Single SPDT											
2 Dual Switch 2 Independent SPDT												
Enclosure	X Nema 4, 7 & 9 Explosion Proof											
Limit Switch	-H 10 Amps @ 125, 250 VAC, 3 Amps @ 480 VAC; Standard											
	-B 10 Amps @ 125, 250, 480 VAC, 2 Amps @ 600 VAC											
	-GH 1.0 Amps @ 125 VAC; Gold Contact											
	-G 10 Amps @ 125, 250, 480 VAC, 2.0 Amps @ 600; VAC Manual Reset											
	-L 22 Amps @ 125, 250, 480 VAC											
	-M 10 Amps @ 125, 250, VAC; 3 Amps @ 480 VAC; 0.5 Amps @ 125 VDC; .025 Amps @ 250 VDC											
	-S 10 Amps @ 125, 250, 480 VAC; Adjustable Differential											
	-AA 4 Amps @ 125, 250 VAC; Hermetically Sealed											
	-HH 5 Amps @ 125, 250 VAC; Hermetically Sealed											
	-CC 10 Amps @ 125, 250 VAC; Hermetically Sealed											
	-GH 1 Amps @ 125 VAC; Gold Hermetically Sealed											
Range	251 See Chart											
Wetted Material	S 304 Stainless Steel Sensor											
Capillary Length	Blank = 6 foot (standard) and if Local Mount											
-12 12 foot												
Options												
Armor	Blank if not required											
	-A 302 Stainless Steel Armor											
Thermowell	-RD Manual Reset (Must use when selecting "G" Limit Switrch options)											
	-WS 316 Stainless Steal Thermowell Local Mount only											
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	T1X-G	251 S	-12 -A -F	RD												
or:	L1X-G	202 S	-RD	-WS	-WS Operating Characteristics											
Examples: T1X-G251S-12-A-RD				Г	Rar	Range Adjustable Range Media Tem perature Limit Differential										
•	•									(Proof)			(Approx.) Liquid			
or	L1X-G202S-RD-WS				°F	°C		۰F		°C		. 년0		Calibrated Dial		
						Low	High	Low	High	Low	High	Low	High	۰F.	°C	Adjustm ent
					15	4 -50	+150	-45	+66	-100	+200	-73	+93	1 to 2	5 to 1.1	Calibrated
NOTE: When selecting the manual reset option					25	1 +50	+250	+10	+121	-100	+300	-73	+149	1 to 2	5 to 1.1	5°Subdivision
on dual setting switches (T2X), the manual reset			Т	1X_35	1 +150	+350	+66	+350	-100	+400	-73	+209	1 to 2	.5 to 1.1	200° Span	
limit switch will be on the high circuit. The low circuit limit switch must be specified by the					<b>&amp;</b> 60	1 +300	+440	+149	+227	0	+650	-18	+343	2 to 4	11 to 2.2	5°Subdivision
				Т	2X										140° Span	
					60	3 +320	+600	+160	+316	0	+650	-18	+343	2 to 4	1.1 to 2.2	10° Subdivision
				_											280° Span	
customer.					20	1 -50	+75	-45	+24	-100	+250	-73	+121	1 to 3	.5 to 1.6	Calibrated
					20	2 +15	+140	+9	+60	-100	+250	-73	+121	1 to 3	.5 to 1.6	2°Subdivision
				L	<b>1X</b> 20	3 +75	+200	+24	+93	-100	+250	-73	+121	1 to 3	.5 to 1.6	125° Span
NOTE: changing limit switch will effect dead band; See sales drawing					35	1 +100	+225	+38	+107	-100	+400	-73	+205	1 to 3	5 to 1.6	
					20	4 -50	+200	-45	+93	-100	+250	-73	+121	1 to 3	1.6 to 3.3	5° Subdivision
					35	4 +100	+350	+38	+177	-100	+400	-73	+205	1 to 3	1.6 to 3.3	250° Span
				45	4 +150	+450	+66	+232	0	+500	-18	+343	3 to 6	1.6 to 3.3	10° Subdivision	



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300° Span