THR, THL Temperature Switch

Temperature Switch for Industrial Applications

Series THR, THL

- High Accuracy
- Line or Ambient Sensing
- NEMA 4X & IP 65
- UL, CSA and CE Approved

Model THR for remote sensing shown.

Barksdale's THR & THL Series Temperature Switches add flexibility to Barksdale's solid reputation for quality & reliability and offers versatility for your temperature switching needs. These thermostats are ideal for freeze protection or temperature control in more demanding industrial applications. The THR & THL Series thermostats feature 10 foot stainless steel sensors for remote monitoring and local mount sensors for ambient temperature sensing. The THR & THL Series feature limit switches with 22 amps @ 125/250/480 VAC electrical ratings. The THR & THL Series models are all UL listed & CSA approved.

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When Temperature Matters, Call Barksdale

For many years, Barksdale temperature switches have been switching, measuring and controlling critical processes throughout the world.

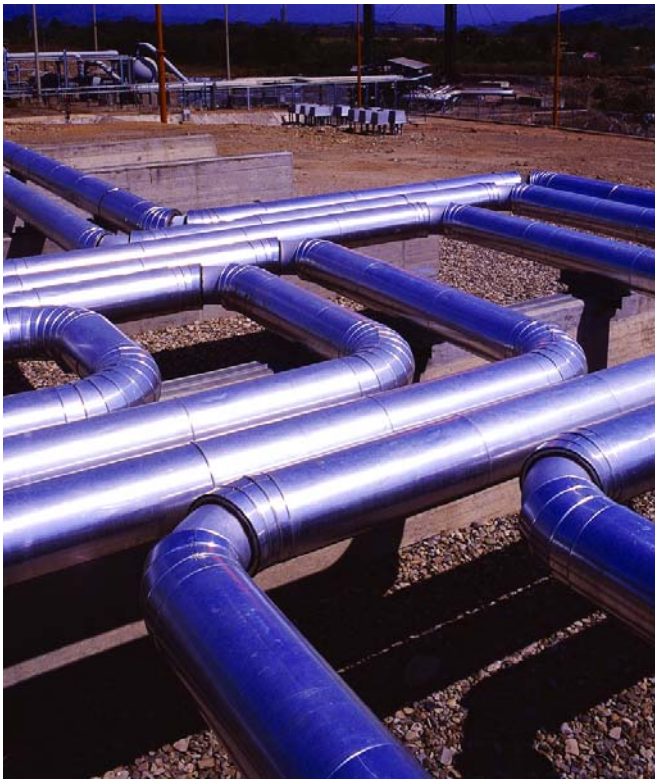
Protect Your Equipment with Barksdale

Barksdale temperature switches prevent damage to heavy industrial equipment by monitoring the temperature of engine fluids and protecting against thermal overloads. Hydraulic power units are protected by controlling the temperature of fluids in systems in reservoirs.

In cold climates, Barksdale temperature switches control heating devices that prevent pipes, valves and fittings from freezing preventing expensive loss and downtime. 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 power units
- Combustion Engines
- Tanks and Reservoirs
- Gearboxes
- Pumps
- Compressors
- Machine Tools and Industrial Equipment
- Farm & Construction Machinery
- Process Equipment



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.

Need More Information?

We are only a phone call away.
Toll-Free: 1-800-835-1060.

THR, THL Temperature Switch

Performance Characteristics

Accuracy	±1% of full scale
Switch	
Type	SPDT, Prewired Snap Action
Rating	22 amp @ 125/250/480 VAC
Adjustment	External adjustment knob

Physical

Bulb and Capillary	
Material	316L Stainless Steel
Bulb	7-3/4" (197mm), 5/16" (8mm) dia.
Capillary Length	10' (3m), Remote Mount
System Pressure (max)	300 psi without thermowell
Fill	Silicone oil-filled
Weight	1.9 pound (0.9 kg)
Enclosure	Anodized die cast aluminum. Other exposed parts, stainless steel
Ratings	NEMA 4
Electrical Connection	3/4" NPT female conduit connection. 3 pole terminal block accepts 14-10 AWG wire
Approvals	UL and CSA approved

Environmental

Ambient Temperature	-40 to 160°F (-40 to 71°C)
ENI/RFI	to EN 55011
Vibration	10 g's 10 - 500 Hz, MIL-STD 202F
Shock	50 g's, 10 mS, MIL-STD 901C

Standard Options

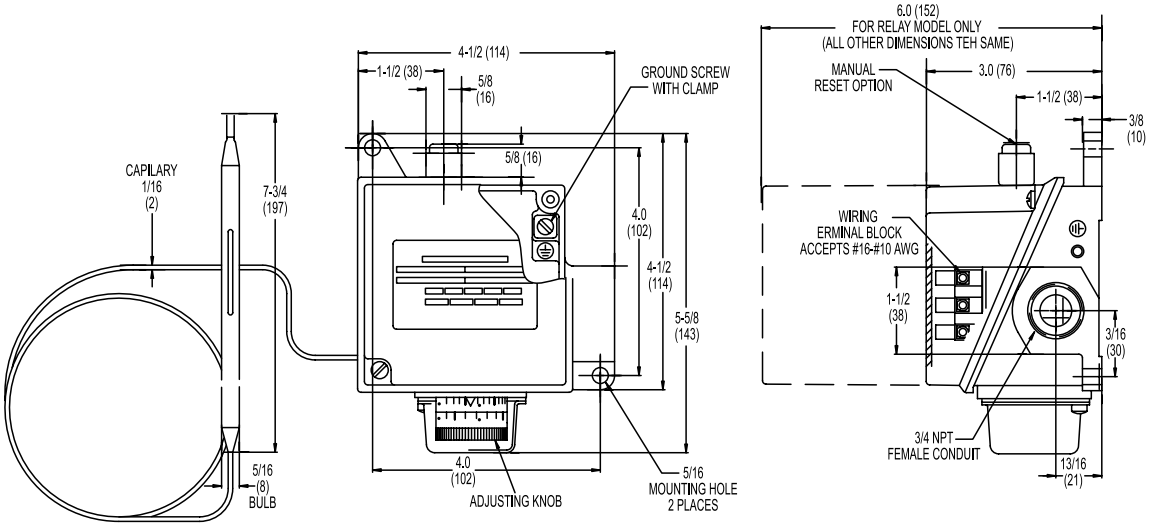
(Add dash and suffix letter to end of catalog number).

R*	- DPST relay switch. 22 amp @ 120/240/277 VAC. Relay Coil: 120 VAC, 4VA.

*Must specify; close on rising or falling temperature

Limit Switch Options — Consult factory for support.

Media Temperature Limits	Adjustable Range	Differential (approximate)	Sensing Location	Catalog Number
Heat Tracing				
-40° to 420°F (-40° to 215°C)	25° to 325°F (-4° to 163°C)	10°F (5.6°C)	Line Sensing T-stat	THR-L2S-10X-Q10
-40° to 160°F (-40° to 71°C)	15° to 140°F (-18° to 149°C)	10°F (5.6°C)	Ambient Sensing T-stat	THL-L1S-X-Q10



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Series THR, THL

Basic Configurator

- T — Temperature Switch
- H — Aluminum Nema 4 Enclosure
- L[1] — Local mount for ambient sensing
- R[2] — Remote bulb & capillary

Limit Switch

- -L — 22 Amp @ 125/250/480 VAC

Temperature Range

Range	Adjustable Range °F Low	Adjustable Range °F High	Adjustable Range °C Low	Adjustable Range °C High	Media Temperature Limit (Proof) °F Low	Media Temperature Limit (Proof) °F High	Media Temperature Limit (Proof) °C Low	Media Temperature Limit (Proof) °C High	Differential (Approx.) Liquid °F	Differential (Approx.) Liquid °C
1	+15°	+140°	-9°	+60°	-40°	+160°	-40°	+71°	10°	5.6°
2	+25°	+325°	-4°	+163°	-40°	+420°	-40°	+215°	10°	5.6°

Wetted Material

- S — Stainless Steel Sensor

Options

- X — For THL models (with Nema 4X enclosure)
- -10X — 10ft bulb & capillary for THR models (with Nema 4X enclosure)
- -R — 22A DPST Relay[3]
- -Q10 — Heat tracing model (standard)
- -Sxxx — Factory pre-set (consult factory)

Example: T H L -L 2 S -X -Q10

THL-L1S-X-Q10

NOTES:

[1] Use Temperature Range "1" for local sensing applications

[2] Use Temperature Range "2" for remote sensing applications

[3] DPST switch, 22 Amps @ 120/240/277 VAC. Relay Coil: 120 Vac, 4 VA. Contacts close on falling temperature.

Barksdale
CONTROL PRODUCTS
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