

Timing Mode: **INTERVAL ON DELAY**

Category: **SOLID STATE TIMER**

Series: **TH3L**

## CUBE SOLID STATE, 1AMP



### TH3L Timers

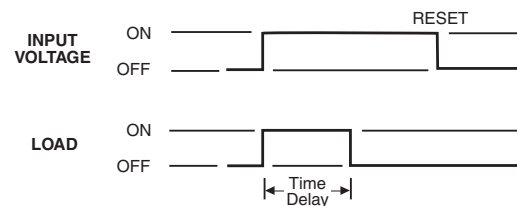
TH3L timers are solid state output units with digital timing. The TH3L comes in a 2" square case.

Ease of installation and hook-up is a primary design benefit. All models with integral time adjustment knob or factory-fixed time require only three connections.


Units with external time adjustment have two additional terminals for the resistor or potentiometer.

### Timing Mode

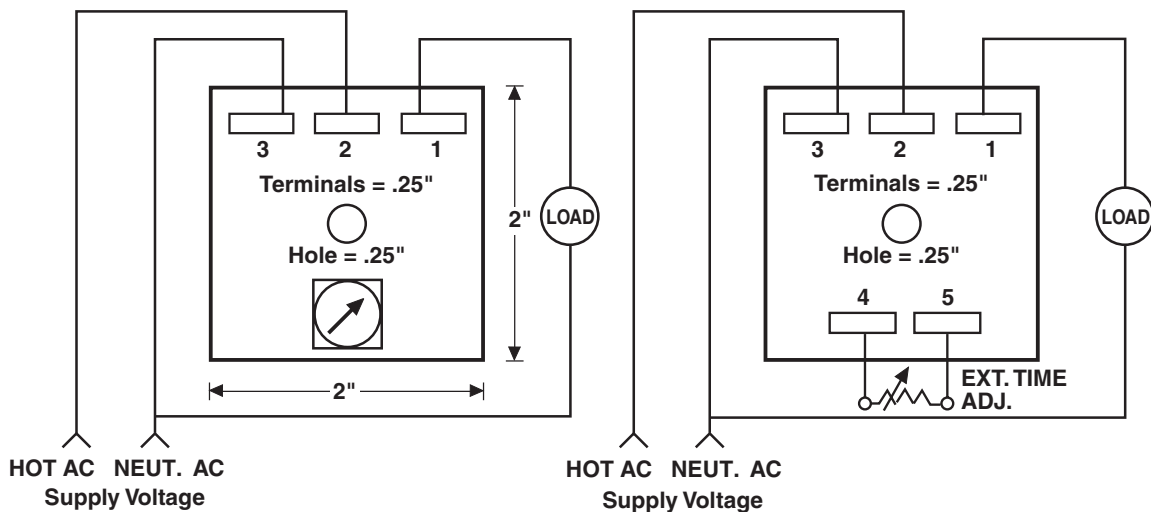
Application of input voltage to the timer energizes the load and starts the time delay. At the end of the time delay, the load is de-energized. Removal and re-application of input voltage resets the timer.



## FEATURES

- Digital timing, solid state output
- 1 Amp current load handling
- 10 Amps single AC cycle surge handling
- 3 Operating voltages: 24, 120 and 230 VAC
- $\pm 0.1\%$  Repeat accuracy
- Virtually unlimited time ranges
- Factory-fixed or variable timing adjustment
- Totally encapsulated for protection from harsh environments
- O-ring sealed exposed controls
- Single screw mounting through center mounting hole
- Standard 6.35mm (0.25") quick connect blade terminals
- Three terminal connections allow convenient substitution for other manufacturers' timers
- 100% Operational testing before shipping
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- RoHS compliance available

## BASIC WIRING AND DIMENSIONS



## SPECIFICATIONS

**Repeat Accuracy:**  $\pm 0.1\%$  under fixed conditions  
**Timing Ranges:** 0.1 sec. to 24 hours (1 sec., 10 sec., 100 sec., and 1000 secs. are standard.)  
*Special time ranges available upon request*  
**Reset/Recycle Time:** 200 milliseconds  
**Tolerances:** Fixed:  $\pm 10\%$  of nominal time  
*(optional:  $\pm 5\%$ ,  $\pm 1\%$ )*  
 Variable:  $-0\%$ ,  $+15\%$   
 Limit:  $-10\%$  at minimum time  
**Recycle Effect:** None  
**Temperature Ranges:**  
*Storage:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$*   
*Operating:  $-25^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$*

**Life Expectancy:**  
 No predictable failure if used within operating parameters  
**Protection:**  
*Transient Protection: 18 joules*  
*Dielectric Strength: 1800V RMS 60Hz*  
**Power Requirement:** .25 watts max.  
**Weight:** 3 oz. (85g) maximum  
**Load Current:** 1 amp continuous,  
 10 amps AC single-cycle surge  
**Time Cycle Interrupt:** Resets timer to original state  
**(Input Voltage Break)**

## OPTIONS SELECTION

Mode of Operation	Series	Input Voltage	Examples of Time Ranges	Time Adjustment Method	Options
<b>Interval On Delay</b>	<b>TH3L</b>	1 120 VAC 50/60 Hz	<b>VARIABLE TIME PERIODS</b>	<b>A</b> Variable integral, knob on timer <b>B</b> Variable external, remote potentiometer timer <b>C</b> Fixed, internal, factory set <b>D</b> External, remote resistor	<b>S</b> Special <b>W</b> Wires
		2 230 VAC 50/60 Hz	<b>0001</b> .1 to 1 sec. <b>0010</b> .1 to 10 sec. <b>0100</b> 1 to 100 sec. <b>1000</b> 10 to 1000 sec. Any range up to 24 hours available on special order.		
		3 24 VAC 50/60 Hz	<b>FIXED TIME PERIODS</b>		
		4 24 VDC	Specify in seconds (S) or hours (H) Examples: 400S is 400 seconds 05H5 is 5.5 hours		
		7 12 VDC			

**EXAMPLE** TH3L 3 0100 S C This is a "TH" series timer, Interval on delay, 24 volt AC, 100 second fixed internal, factory-set time period.  
*Specifications subject to change without notice.*