

Timing Mode: **REPEAT CYCLE, ON/OFF DELAY**

Category: **SOLID STATE TIMER**

Series: **THKA**

## CUBE SOLID STATE, FLASHER, 1 AMP



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### THKA Timers / Flasher

THKA timers are solid state output units with digital timing and similar on/off cycle times. The TH 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 two connections. They may be wired in-line just like a single pole switch.

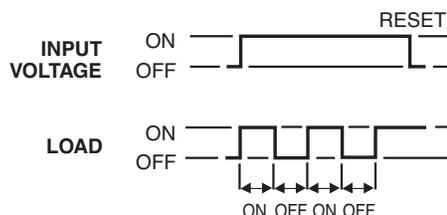
Units with external time adjustment have two additional terminals for the resistor or potentiometer.

### Timing Mode

Application of input voltage to the timer starts the "On" time delay. At the end of the "On" time delay, the "Off" time delay starts.

At the end of the "Off" time delay, the load is again energized, the timer returns to the "On" time delay, and the cycling continues as long as input voltage is applied.

Removal of the input voltage resets the timer.

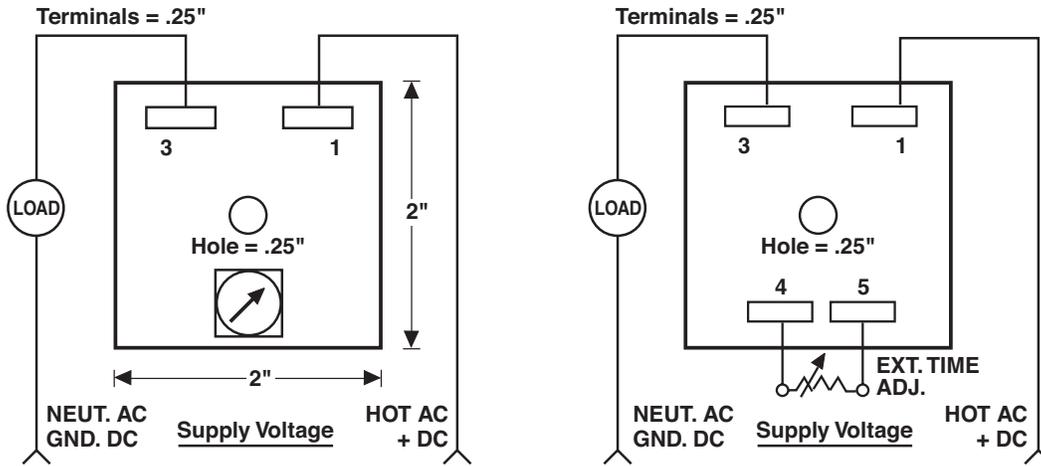


## FEATURES

- Digital timing, solid state output
- 1 Amp current load handling
- 10 Amps single-cycle surge handling
- 4 Overlapping AC voltage ranges (from 19 to 277 volts) plus 19-48 VAC/VDC
- $\pm 0.1\%$  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
- 100% Operational testing before shipping
-  RoHS compliant available

## BASIC WIRING AND DIMENSIONS

072816



## SPECIFICATIONS

**Input Voltage:** VAC: 19 thru 277, 50/60Hz  
VDC: 19 to 48

**Repeat Accuracy:** ±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:** 100 milliseconds

**Tolerances:** Fixed: ±10% of nominal time  
(optional: ±5%, ±1%)  
Variable: -0%, +15%  
Limit: -10% at minimum time

**Recycle Effect:** None

**Temperature Ranges:**  
Storage: -40°C to +85°C  
Operating: -25°C to +65°C

**Life Expectancy:**

No predictable failure if used within operating parameters

**Protection:**

*Polarity Protection:* All DC units have reverse polarity protection  
*Transient Protection:* 18 joules  
*Dielectric Strength:* 1800V RMS 60Hz

**Power Requirement:** 0.25 watts max.

**Weight:** 3 oz. (85g) maximum

**Solid State Output:** SPST (N.C.)

**Load Current:** 1 amp continuous, 10 amps 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
Repeat Cycle On/Off Delay	THKA	1 40-140 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 90-260 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 19-48 VAC/DC 50/60 Hz	<b>FIXED TIME PERIODS</b>		
	8 90-277 VAC 50/60 Hz	Specify in seconds (S) or hours (H) Examples: 400S is 400 seconds 05H5 is 5.5 hours			

**EXAMPLE** THKA 3 0100 S C TH series timer, Repeat Cycle On/Off Delay, 24 volt AC, 100 second fixed on and off internal, factory-set time periods.

*Specifications subject to change without notice.*