TH3ML Timers

The TH3ML timers are solid state output Delay On Break timers in a fully encapsulated 2” x 2” case. Time adjust can be with on board potentiometer, external resistor or factory fixed time.

Timing Mode

Input voltage is applied continuously. Upon closure of the normally open live external switch, the load is energized, and remains energized as long as it is closed. When the external initiate switch opens, the time delay is started. At the end of the time delay, the load is de-energized, and the timer is ready for another cycle.

Features

- Digital timing, solid state output
- 1 Amp current handling
- 10 Amps AC single-cycle surge handling
- ±0.1% Repeat accuracy
- Factory fixed or variable timing adjust
- Single screw mounting through center mounting hole
- Standard 6.35mm (0.25”) 5 terminal quick connects
- 100% Operational testing before shipping
- RoHS compliant
**SPECIFICATIONS**

**Input Voltage:**
- **VAC:** 24 or 120
- **VAC:** 230 (±20%)  
- **VDC:** 12 or 24

**Time Delay:**
- 0.1 sec. to 24 hours (1 sec., 10 sec., 100 sec., 1000 sec. are standard)  
- *Special ranges available on request*

**Repeatability:** ±0.1% (under fixed conditions)

**Reset/Recycle Time:** 150 milliseconds maximum

**Initiate Time:** 16 milliseconds

**Solid State Output Form:**
- Normally open 1 Amp steady state, 10A single-cycle surge

**Life Expectancy:**
- No predictable failure if used within operating parameters

**Protection:**
- *Transient Protection:* 18 joules  
- *Dielectric Strength:* 1800V RMS 60Hz

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

**Physical Data:**
- Surface mount with single #8 or #10 screw, totally encapsulated

**OPTIONS SELECTION**

<table>
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<th>Examples of Time Ranges</th>
<th>Time Adjustment Method</th>
<th>Options</th>
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<tr>
<td>Delay on Break</td>
<td>TH3ML</td>
<td>1 120 VAC 50/60 Hz</td>
<td>0001 .1 to 1 sec. 0010 .1 to 10 sec. 0100 1 to 100 sec. 1000 10 to 1000 sec. Any range up to 24 hours available.</td>
<td><strong>A</strong> Variable, integral, knob on timer.</td>
<td><strong>W</strong> Wires</td>
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<tr>
<td></td>
<td></td>
<td>2 230 VAC 50/60 Hz</td>
<td></td>
<td><strong>B</strong> Variable, external knob remote.</td>
<td><strong>S</strong> Special</td>
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<tr>
<td></td>
<td></td>
<td>3 24 VAC 50/60 Hz</td>
<td></td>
<td><strong>C</strong> Fixed, internal, factory set.</td>
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<td>4 24 VDC</td>
<td>Specify time in full seconds (S) or hours (H). Examples: 400S is 400 secs 05H5 is 5.5 hours</td>
<td><strong>D</strong> Fixed, external, resistor remote.</td>
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<td>7 12 VDC</td>
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Specifications subject to change without notice.