TGCL Timers

TGCL series Cube Relay Delayed Interval Dual Adjustable Off/On timers are a unique combination of solid-state timing circuitry with a relay output in a compact cube configuration.

The time delay for both the “Off” cycle and the “On” cycle can be individually adjusted. These timers offer the many advantages of a relay output and provide the same functional performance as plug-in relay timers, but at a significant cost savings.

Timing Mode

Application of input voltage to the timer starts the “Off” time delay. At the end of the “Off” time delay, the “On” time delay starts, and the relay is energized.

At the end of “On” time delay, the relay is de-energized. Removal of the input voltage resets the timer.

- High current-carrying capacity up to 10 amps
- 100% Load isolation
- No leakage in N.O. position
- No heat sinking required
- Available in any time delay periods required
- Digital CMOS timing
- Transient protected
- No minimum load required
- Totally encapsulated for protection from harsh environments
- 100% Operational testing before shipping
- RoHS compliant
### Specifications

**Input Voltage:**
- VDC: 12, 24, or 48
- VAC: 24, 48, 120, or 230, 50/60Hz
- Special AC or DC voltages available

**Time Delay:**
- **Timing Mode:** Delayed Interval
- **Type:** Digital CMOS
- **Time Range:** 0.5 second to 24 hours
- **Time Adjustment:** Variable, with adjustments on timer, or terminals for external resistors or potentiometers

**Repeatability:** ±0.5%
**Setting Accuracy:**
- Variable time ranges:
  - +15% - 5% max. time, -10% min. time
- Fixed time periods: ±10% of nominal time

**Reset/Recycle Time:** 250 milliseconds

**Initiate Time:** 6 milliseconds or less

**Life Expectancy:**
- **Mechanical:** 20 million operations
- **Electrical:** 100,000 operations at maximum load

**Protection:**
- Polarity Protection: All DC units have reverse polarity 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:**
- **Mounting:** Surface with one #8 screw or two #6 screws
- **Connection & Termination:** 0.25” quick connects

### Options Selection

<table>
<thead>
<tr>
<th>Mode of Operation</th>
<th>Series</th>
<th>Input Voltage</th>
<th>Examples of Time Ranges</th>
<th>Time Adjustment Method</th>
<th>Relay Output Form</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delayed Interval</td>
<td>TGCL</td>
<td>120 VAC</td>
<td></td>
<td></td>
<td>1 SPDT</td>
<td>H 10 Amps</td>
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<tr>
<td>(Dual Adjustable)</td>
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<td>230 VAC</td>
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<td>2 SPST</td>
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<td>24 VAC</td>
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<td>24-28 VDC</td>
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<td>48 VAC</td>
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<td>48 VDC</td>
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<td>12 VDC</td>
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<td>Any in between AC voltage (specify)</td>
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<td>Any in between DC voltage (specify)</td>
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<td><strong>EXAMPLE</strong></td>
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<td>0010/0010</td>
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**TGCL, 120 VAC, 10 seconds On Delay, 10 seconds interval, both fixed SPST**

Specifications subject to change without notice.