Timing Mode: **SINGLE SHOT**
Category: **TIMER WITH RELAY**
Series: **TGPLB**

CUBE RELAY, 10-20 AMPS

**TGPLB Timers**
TGPLB series Cube Relay Single Shot On Make timers are a unique combination of digital CMOS timing circuitry with a relay output in a compact 2" x 2" configuration.

These units provide the same functional performance as plug-in relay timers, but at significant cost savings.

Key features: Uses a live or hot initiate switch; relay common is internally connected to (+) or hot.

**Timing Mode**
Power must be applied to the input voltage terminals continuously. Upon closure of a Normally Open (N.O.) external initiate switch, the load is instantaneously energized and the time delay cycle starts.

Maintained closure or actuation of the external initiate switch during the delay cycle will not affect the time delay period.

When the delay period expires, the timer will reset to its original position and the timer is ready for another cycle.

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**FEATURES**

- High current-carrying capacity up to 20 amps
- Transient protected
- 100% Load isolation
- No leakage in N.O. position
- No heat sinking required
- Available in any time delay period required
- Digital CMOS timing
- No minimum load required
- Totally encapsulated for protection from harsh environments
- 100% Operational testing before shipping
- RoHS compliance available
**BASIC WIRING AND DIMENSIONS**

**Input Voltage:**
- VDC: 12, 24-28 or 48
- VAC: 24, 48, 120 or 230, 50/60Hz
- Special AC or DC voltages available

**Time Delay:**
- Timing Mode: Single Shot on Make
- Type: Digital CMOS
- Time Range: 0.2 second to 24 hours
- Time Adjustments: Factory-fixed time period; variable, with adjustments on timer, or terminals for external resistor or potentiometer

**Repeatability:** ±0.5%

**Setting Accuracy:**
- Fixed time period: ±10% of nominal time.
- Variable time range: +15% -5% max. time, -10% min. time

**Reset/Recycle Time:** 25 milliseconds

**Initiate Time:** 6 milliseconds or less

**Relay Life Expectancy:**
- Mechanical: 20 million operations
- Electrical: 100,000 operations

**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
- Connection & Termination: 0.25" quick connects

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**MODES OF OPERATION**

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<td>Single Shot On Make</td>
<td>TGPLB</td>
<td>1 120 VAC 2 230 VAC 3 24 VAC 4 24-28 VDC 5 48 VAC 6 48 VDC 7 12 VDC 8 Any in between AC voltage (specify) 9 Any in between DC voltage (specify)</td>
<td>0001 0.1 to 1 sec. 0010 0.2 to 10 sec. 0100 2 to 100 sec. 1000 20 to 1000 sec. Any range up to 24 hours available.</td>
<td>A Variable, integral, knob on timer. B Variable, external knob remote. C Fixed, internal, factory set. D Fixed, external, resistor remote.</td>
<td>1 SPDT 2 SPST (N.O.) 3 SPST (N.C.)</td>
<td>H 10 Amps JN 15 Amps (1.0 HP) J 20 Amps (1.5 HP) S Special</td>
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Specifications subject to change without notice.