CUBE RELAY, 10 AMPS

TGPSB Timers

TGPSB series Cube Relay Single Shot 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: Normally Open (N.O.) isolated initiate switch; relay common is internally hooked to (+) or hot.

Timing Mode

Power must be applied to the input voltage terminals continuously. Upon closing and opening an external initiate switch, the load is instantaneously energized and the time delay cycle starts.

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

FEATURES

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