TGCM / TGCML Timers

TGCM / TGCML series Cube Relay timers offer a timing mode combination of Delay on Make followed by Delay on Break. This function is also known as the “On Delay / Off Delay” timer.

Both time periods are offered with either fixed or adjustable times and both time periods can be offered with a separate time range.

Timing Mode

Apply supply voltage. Turn on initiate switch after the on delay expires, and the load will energize.

Upon release of the initiate switch, the off delay begins.

If the switch remains open for the total time, the load will de-energize.

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
- UL, CE
- RoHS compliant
**BASIC WIRING AND DIMENSIONS**

**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: On Delay / Off Delay
- Type: Cube Relay
- Time Range: 0.1 second to 24 hours
- Time Adjustments: Fixed; pots; ext adjustments

**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 Output Form:**
- Standard: SPST N.O.
- Optional: SPST N.C., SPDT

**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

**OPTIONS SELECTION**

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| On Delay / Off Delay | TGCM | 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) | VARIABLE TIME PERIODS
- 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. | A Variable, integral, knob on timer. B Variable, external knob remote. C Fixed, internal, factory set. D Fixed, external, resistor remote. | *1 SPDT H 10 Amps JN 15 Amps (1.0 HP) J 20 Amps (1.5 HP) | |
| Example | TGCM | 1 0010/0010 AA 2 H | |

TGCM, 120 VAC, 10 second On Delay, 10 second Off Delay, both adjustable, SPST, 10 Amps

Specifications subject to change without notice.

**AIROTRONICS**

Timers & Controls

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