

Timing Mode: **DELAY ON BREAK**
 Category: **TIMER WITH RELAY**
 Series: **TGMVB**

CUBE RELAY, CONTROL VOLTAGE INITIATE



TGMVB Timers

TGMVB series Cube Relay Delay on Break timers are a unique combination of digital CMOS timing circuitry with a relay output in a compact 2" x 2" configuration. They are for use in applications where the control voltage is different to the input voltage.

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

The TGMVB has the relay common hooked to the hot or (+).

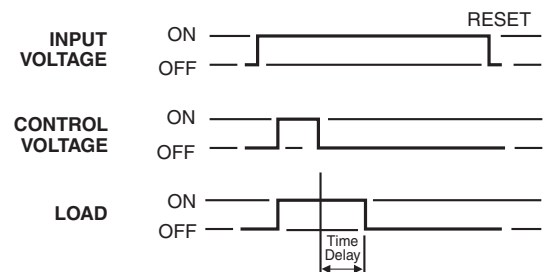
Timing Mode

Input voltage is applied continuously. Upon application of the control voltage, the load is energized, and remains energized as long as it is applied.


When the control voltage is removed, 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.

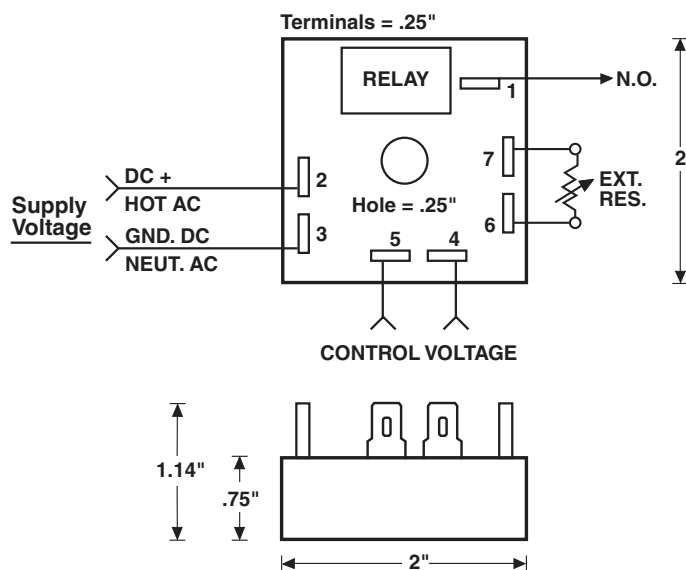
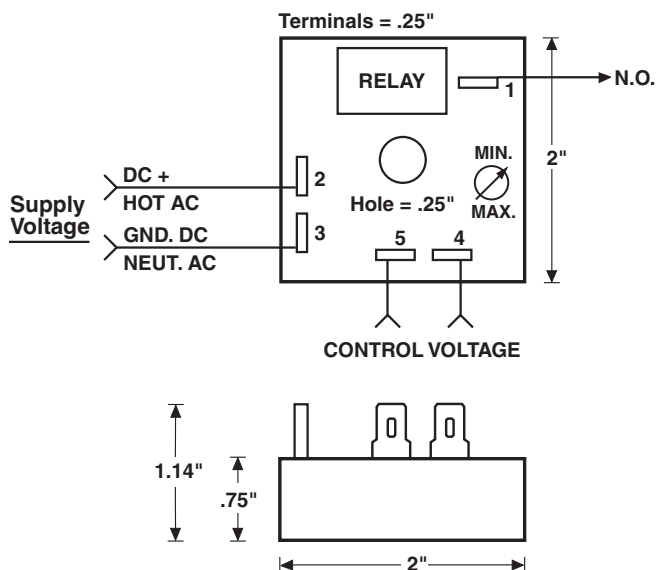
Control voltage and input voltage can be different.



FEATURES

- Current-carrying capacity up to 10 amps
- Transient protected
- 100% Control voltage isolation
- 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
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- RoHS compliance available

BASIC WIRING AND DIMENSIONS



SPECIFICATIONS

Input Voltage:

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

Control Voltage: VAC: 24-120 inclusive

Time Delay:

Timing Mode: Delay 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
 Control Voltage Isolation: 2500V 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

Mode of Operation	Series	Input Voltage	Examples of Time Ranges	Time Adjustment Method	Relay Output Form	Options
Voltage-Controlled Delay On Break	TGMVB	1 120 VAC	VARIABLE TIME PERIODS 0001 0.2 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.	A Variable, integral, knob on timer. B Variable, external knob remote. C Fixed, internal, factory set. D Fixed, external, resistor remote.	2 SPST (N.O.)	H 10 Amps
		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)				

Specifications subject to change without notice.