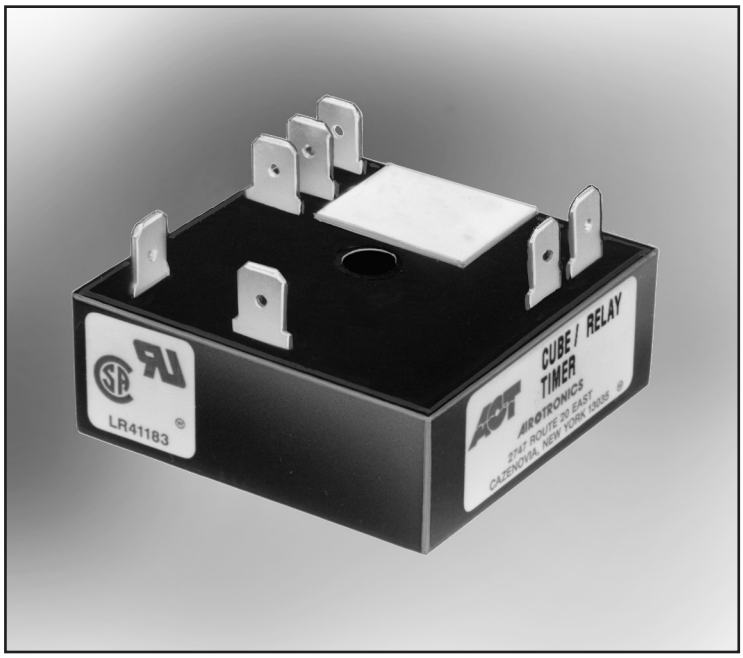
Timing Mode: **DELAY ON BREAK**
Category: **TIMER WITH RELAY**
Series: **TGMLB**

CUBE RELAY, 10-20 AMPS

AIROTRONICS
Timers & Controls

PELCO COMPONENT TECHNOLOGIES • 855 227 3526



TGMLB Timers

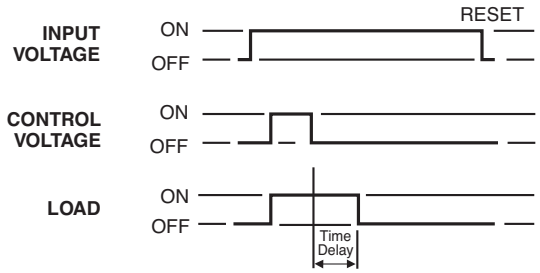
TGMLB series Cube Relay Delay on Break timers are a unique combination of digital CMOS timing circuitry with a relay output in a compact 2" x 2" configuration.

For users of solid-state timers, these units provide the same functional performance as plug-in relay timers, but at significant cost savings.

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

Timing Mode

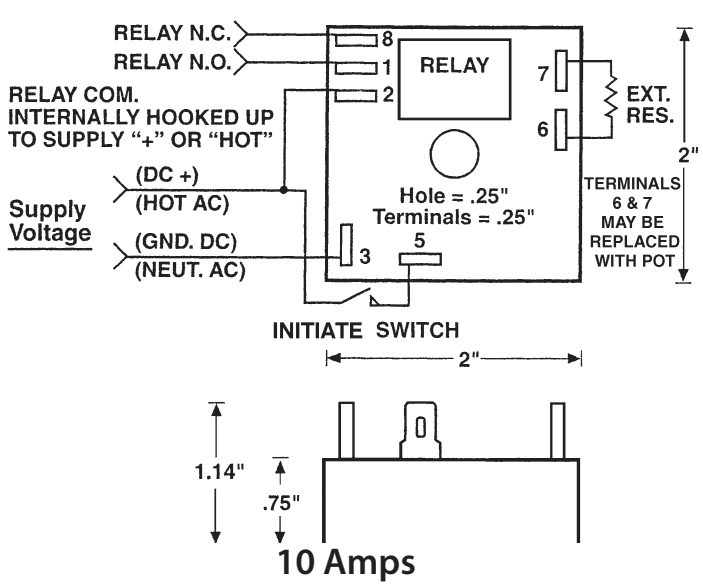
Input voltage is applied continuously. Upon closure of the normally open live external initiate switch, the load is energized, and remains energized as long as it is closed. When the external initiate switch opens, the time delay is started. At the end of the time delay, the load is de-energized, and the timer is ready for another cycle.



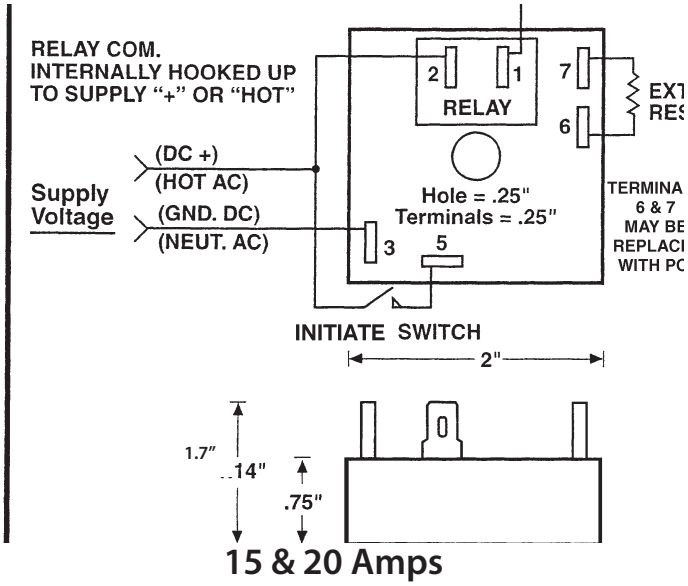
FEATURES

- **High current-carrying capacity up to 20 amps, 1.5 HP**
- **Transient protected**
- **100% Load isolation**
- **No leakage in N.O. position**
- **No heat sinking required**
- **Available in any time delay period required**
- **Uses live initiate switch**
- **Pin-for-pin replacement for solid state timers**
- **Digital CMOS timing**
- **No minimum load required**
- **Totally encapsulated for protection from harsh environments**
- **100% Operational testing before shipping**
- **RoHS compliant**

BASIC WIRING AND DIMENSIONS



10 Amps



15 & 20 Amps

SPECIFICATIONS

072816

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: 0.1 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 or #10 screw, 0.25" quick connects

OPTIONS SELECTION

Mode of Operation	Series	Input Voltage	Examples of Time Ranges	Time Adjustment Method	Relay Output Form	Options
Delay On Break	TGMLB	**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** .2 to 10 sec. **0100** 2 to 100 sec. **1000** 20 to 1000 sec. **Any range up to 24 hours available.** **FIXED TIME PERIODS** Specify time in full seconds or hours followed by the letter "S" or "H" and the decimal amount of the main time unit. **Examples:** 5S5 is 5.5 secs 5H5 is 5.5 hours	**A** Variable, integral, knob on timer. **B** Variable, external knob remote. **C** Fixed, internal, factory set. **D** Fixed, external, resistor remote.	**1** SPDT **2** SPST (N.O.) **3** SPST (N.C.)	**H** 10 Amps **JN** 15 Amps (1.0 HP) **J** 20 Amps (1.5 HP) **W** Wires **S** Special

Specifications subject to change without notice.