

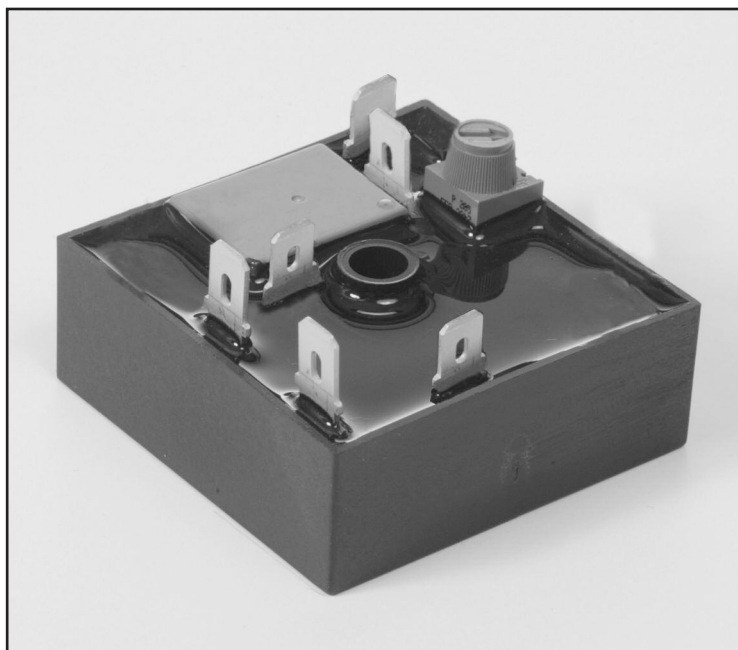
Timing Mode: **RETRIGGERABLE SINGLE SHOT**

Category: **TIMER WITH RELAY**

Series: **TGMPL**

AIROTRONICS
Timers and Controls **ACT**

MISSING PULSE DETECTOR / WATCHDOG

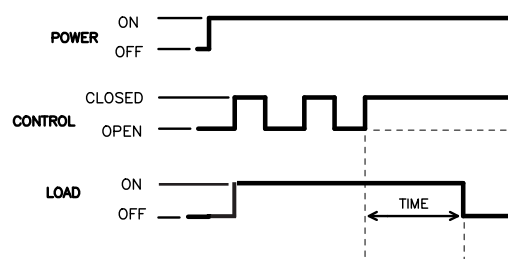


TGMPL Timers

TGMPL 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.

Timing Mode

Input voltage is applied continuously - when control switch closes the relay transfers, if switch closures happen within set time period, relay stays closed. If control switch stays closed or open longer than set time, relay opens.

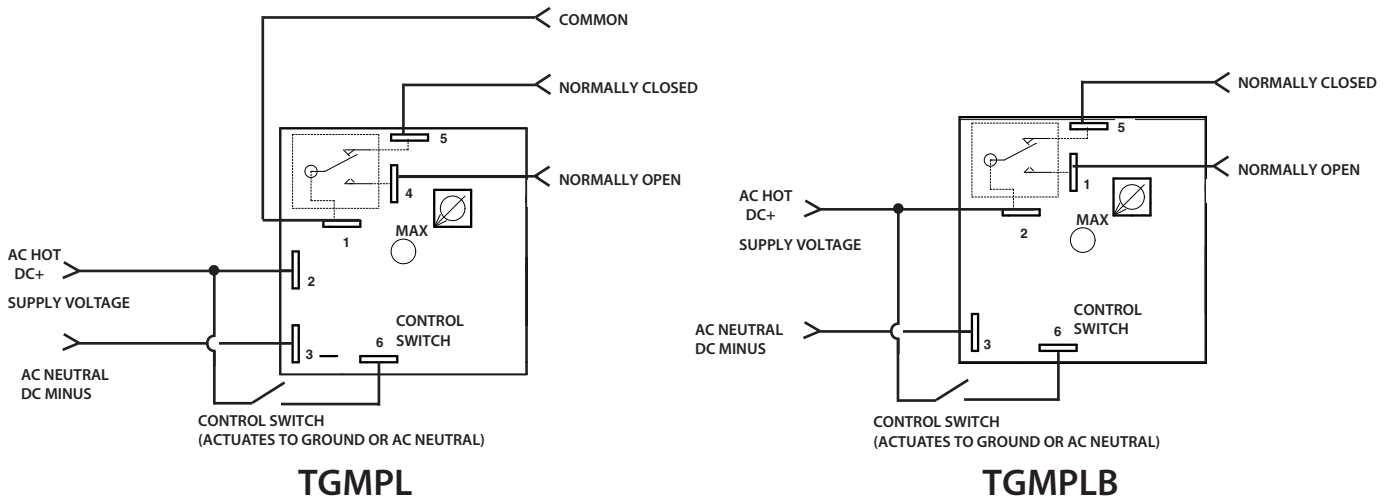


FEATURES

- 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

BASIC WIRING AND DIMENSIONS



SPECIFICATIONS

Input Voltage:

VDC: 12, 24 or 48

VAC: 24, 48, 120 or 230, 50/60Hz

Time Delay:

Timing Mode: Pulse Detector

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: $\pm 0.5\%$

Setting Accuracy: Fixed time period: $\pm 10\%$ 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

Note: When using a proximity switch for control unit, a snubber may be required to bypass leakage current

OPTIONS SELECTION

Mode of Operation	Series	Input Voltage	Examples of Time Ranges	Time Adjustment Method	Relay Output Form	Options
Retriggerable Single Shot (Watchdog)	TGMPL TGMPLB	1 120 VAC	VARIABLE TIME PERIODS	A Screwdriver Adj., Variable, integral. C Fixed, internal, factory set.	1 SPDT 2 SPST (N.O.)	H 10 Amps
		2 230 VAC	0001 0.5 to 1 sec.			
		3 24 VAC	0010 .1 to 10 sec.			
		4 24-28 VDC	0100 1 to 100 sec.			
		5 48 VAC	1000 10 to 1000 sec.			
		6 48 VDC	Any range up to 24 hours available.			
		7 12 VDC	FIXED TIME PERIODS			
		8 Any in between AC voltage (specify)	Specify time in full seconds or hours followed by the letter "S" or "H" and the decimal amount of the main time unit.			
		9 Any in between DC voltage (specify)	Examples: 5S5 is 5.5 secs 5H5 is 5.5 hours			

Specifications subject to change without notice.