

Timing Mode: **REPEAT CYCLE, ON/OFF**

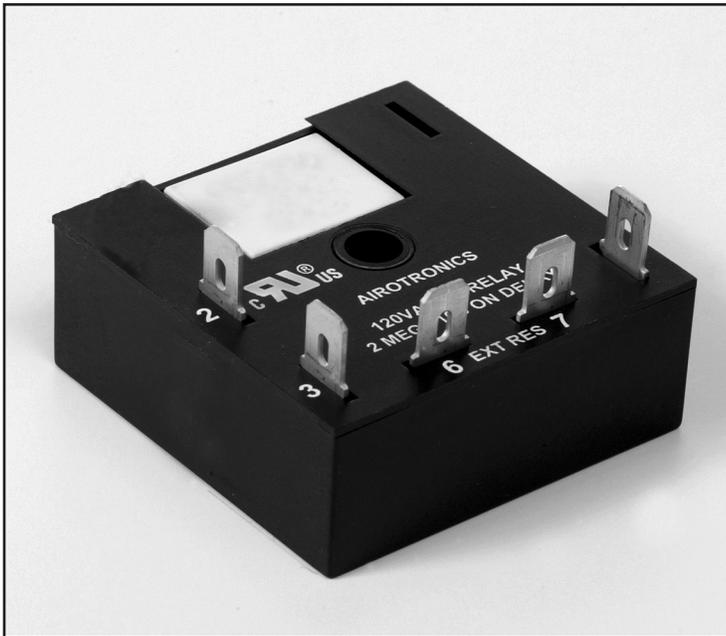
Category: **TIMER WITH RELAY**

Series: **TGKAB**

CUBE RELAY, 10-20 AMPS



PELCO COMPONENT TECHNOLOGIES • 855 227 3526



TGKAB Timers

TGKAB series Cube Relay Repeat Cycle On/Off timers are a unique combination of solid state timing circuitry with a relay output in a compact 2" x 2" configuration.

These solid state timers offer the many advantages of a relay output and provide the same functional performance as plug-in relay timers, but at significant cost savings.

Terminal #3 is common for both the input voltage and the load, thereby saving on installation cost.

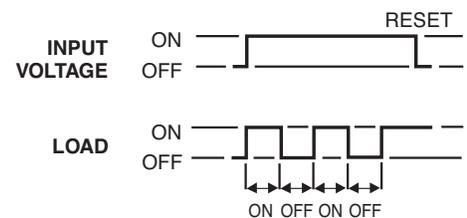
Timing Mode

Application of input voltage to the timer starts the "On" time delay, and energizes the load.

At the end of the "On" time delay, the load is de-energized, and the "Off" time delay starts.

At the end of the "Off" time delay, the load is again energized, the timer returns to the "On" time delay, and the cycling continues as long as input voltage is applied.

Removal of the input voltage resets the timer.

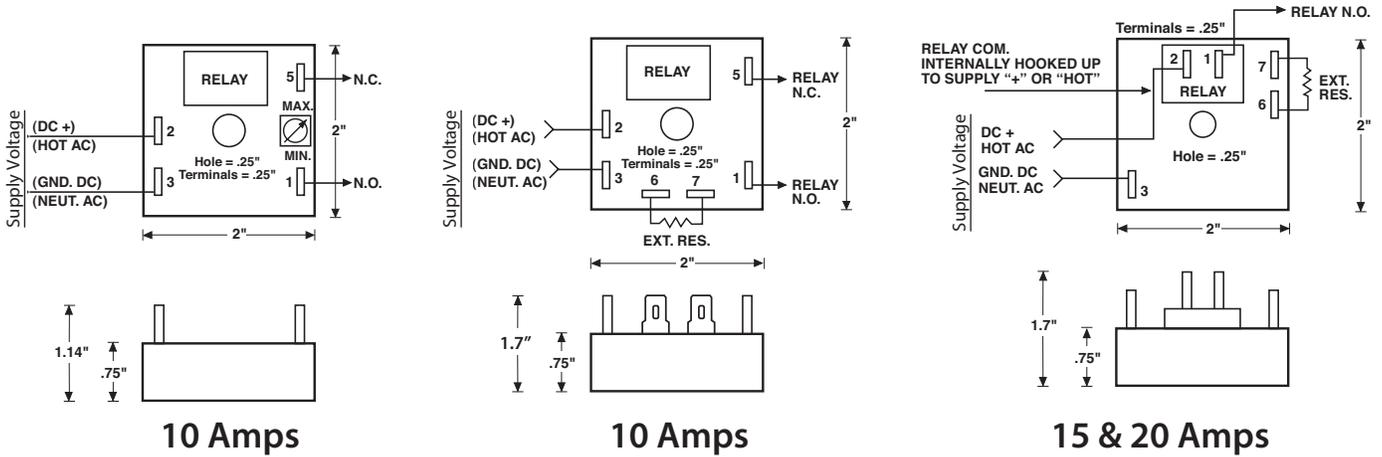


FEATURES

- High current-carrying capacity up to 20 amps
- 100% Load isolation
- No leakage in N.O. position
- No heat sinking required
- Available in any time delay period required
- Digital CMOS timing
- Transient protected

- No minimum load required
- Totally encapsulated for protection from harsh environments
- 100% Operational testing before shipping
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- RoHS compliant

BASIC WIRING AND DIMENSIONS



SPECIFICATIONS

Input Voltage: VDC: 12, 24-28, or 48
 VAC: 24, 48, 120, or 230, 50/60Hz
Optional: Any in-between AC or DC voltage

Time Delay:
Timing Mode: Repeat Cycle On/Off
Type: Digital CMOS
Time Range: 0.1 second to 24 hours
Time Adjustment: Factory fixed time period;
 variable, with knob on timer,
 or terminals for external resistor
 or potentiometer

Repeatability: ±0.5%

Setting Accuracy: *Fixed time period:* ±10% of nominal time;
 ±1% optional
Variable time range:
 +15% -5% max. time, -10% min. time

Reset/Recycle Time: 25 milliseconds

Initiate Time: 6 milliseconds or less

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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OPTIONS SELECTION

Mode of Operation	Series	Input Voltage	Examples of Time Ranges	Time Adjustment Method	Relay Output Form	Options
Repeat-Cycle On/Off	TGKAB	1 120 VAC	VARIABLE TIME PERIODS 0001 .1 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.	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) S Special W Wires
		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.