

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

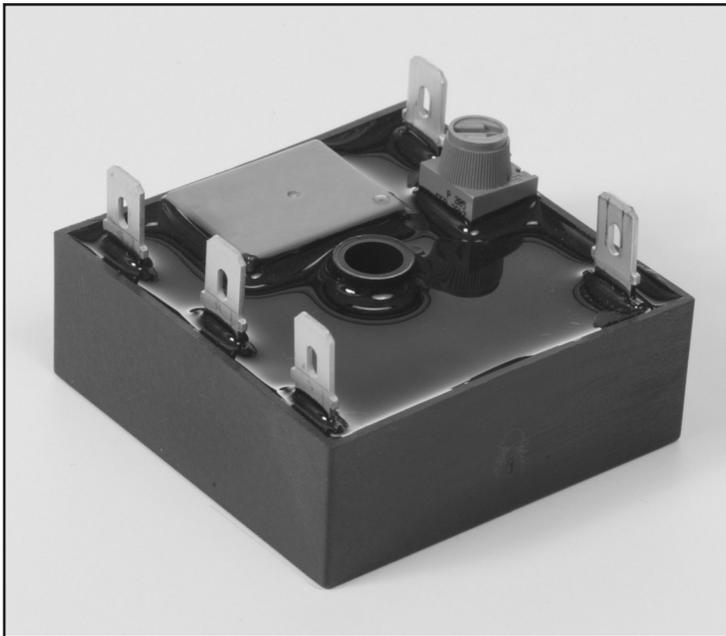
Category: **TIMER WITH RELAY**

Series: **TGKA**

CUBE RELAY, 10-30 AMPS



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TGKA Timers

TGKA 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. They have equal "On" and "Off" times.

These 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.

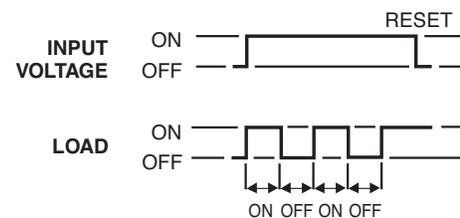
Timing Mode

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.

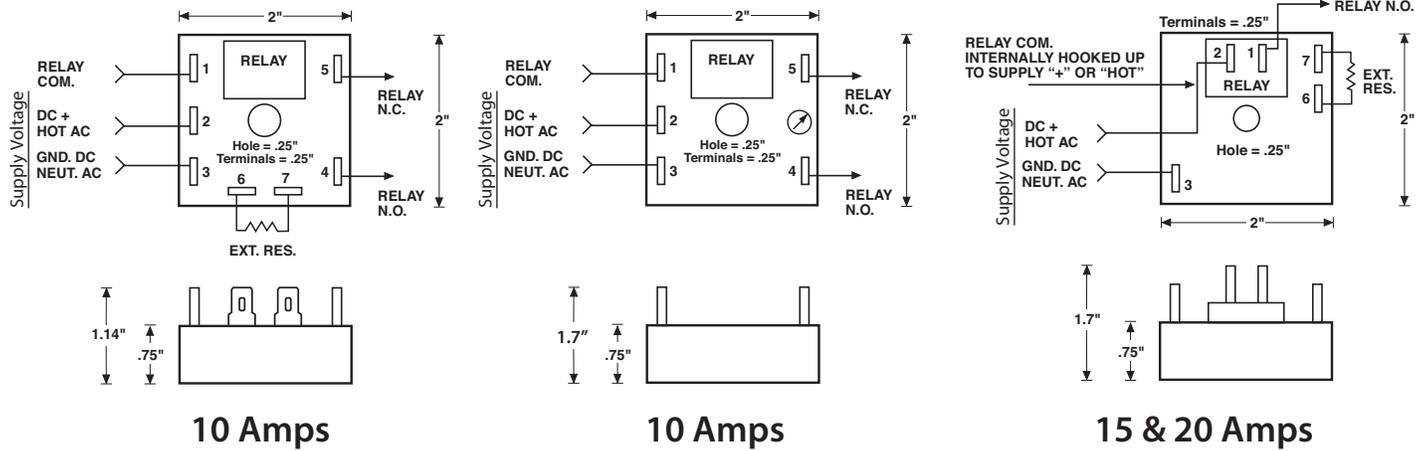
Removal of the input voltage resets the timer.



FEATURES

- High current-carrying capacity up to 30 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

072816

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 60 Hz

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	
Repeat-Cycle On/Off	TGKA	1 120 VAC	VARIABLE TIME PERIODS	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.) *4 DPDT *10 Amps only	H 10 Amps JN 15 Amps (1.0 HP) J 20 Amps (1.5 HP) Z 30 Amps	
		2 230 VAC					0001 .1 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 seconds 5H5 is 5.5 hours				

Specifications subject to change without notice.