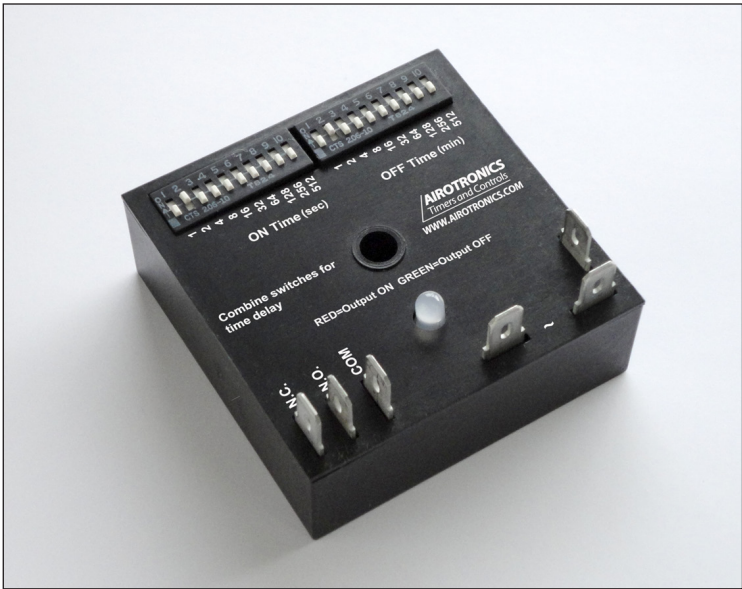


Timing Mode: **REPEAT CYCLE, ON/OFF**
Category: **TIMER WITH RELAY**
Series: **TGKAD-E**

CUBE RELAY, DUAL DIPSWITCH ADJUSTMENT



TGKAD-E Timers

TGKAD-E series Cube Relay Repeat Cycle (Dual Adjustable) On/Off timers are a unique combination of solid state timing circuitry with a relay output in a compact cube configuration.

The time delay for both the “On” cycle and the “Off” cycle can be individually adjusted.

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

Timing Mode

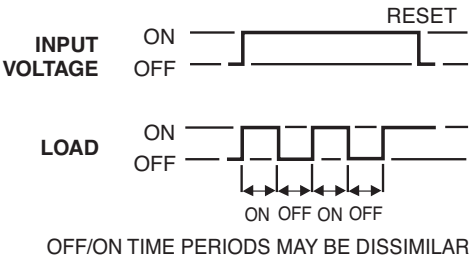
Application of input voltage to the timer starts the “On” time delay, and energizes the relay.

At the end of the “On” time delay, the relay 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 cycling continues as long as input voltage is applied.

Removal of the input voltage resets the timer.

Red LED indicates output relay is on; green LED indicates output relay is off. “On” and “Off” time periods may be dissimilar.

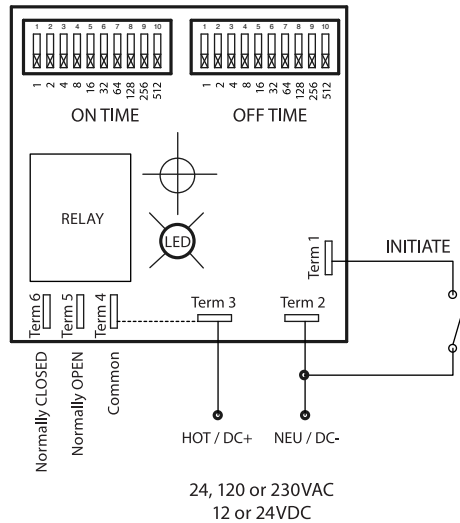


FEATURES

- Precise digital timing
- Binary dipswitch adjustable
- Wide selection of time ranges for both on and off times
- Wide selection of AC and DC input voltages
- Totally encapsulated for protection from harsh environments
- 100% operational testing
- 
- RoHS compliance available

120712

BASIC WIRING AND DIMENSIONS



SPECIFICATIONS

Input Voltage: 24, 120 or 230 VAC; 12 or 24 VDC

Input Voltage Tolerance: $\pm 10\%$

Output Current: 10A resistive, max.

Time Delay: adjustable from 0.1 second to 1023 minutes in 5 ranges, each range with a 1-to-1023 ratio

Repeatability: 0.1% or 20mS, whichever is greater

Time Delay Accuracy: 0.5% of full scale

Recycle Time: 250 milliseconds

Temperature Ranges: *Storage:* -40°C to +85°C
Operating: -25°C to +60°C

Physical Data: 2.5" x 2.5" case, Surface mount with one #8 or #10 screw;
0.25" QC terminals for input and output

Protection: Encapsulated circuitry, MOV transient protection, passes EFT test at 2500V

OPTIONS SELECTION

Mode of Operation	Series	Relay Common	Input Voltage	On Time Delay	Off Time Delay	EE	Output Option	Output Control
Repeat Cycle On/Off	TGKAD ON Time First	NONE Relay common unconnected B Connected to Hot or + Unconnected is standard	1 120VAC 2 230VAC 3 24VAC 4 24VDC 7 12VDC Custom voltages available	102S3 0.1s–102.3s 1023 1s–1023s 10230 10s–10230s 102M3 0.1m–102.3m 1023M 1m–1023m Custom times available	102S3 0.1s–102.3s 1023 1s–1023s 10230 10s–10230s 102M3 0.1m–102.3m 1023M 1m–1023m Custom times available	Dual dipswitch adjustable	1H SPDT 2H SPST	NONE No output control S Initiate Control

Additional time delays, input voltages and output current options available upon request.

EXAMPLE **TGKAD** **2** **102S3** **102M3** **EE** **2H** **S** TGKAD timer, ON Time first, standard relay common, input voltage 120VAC, On time range 0.1sec–102.3sec, Off time range 0.1min–102.3min, dual dipswitch adjustable, with single pole/single throw relay output and initiate control.