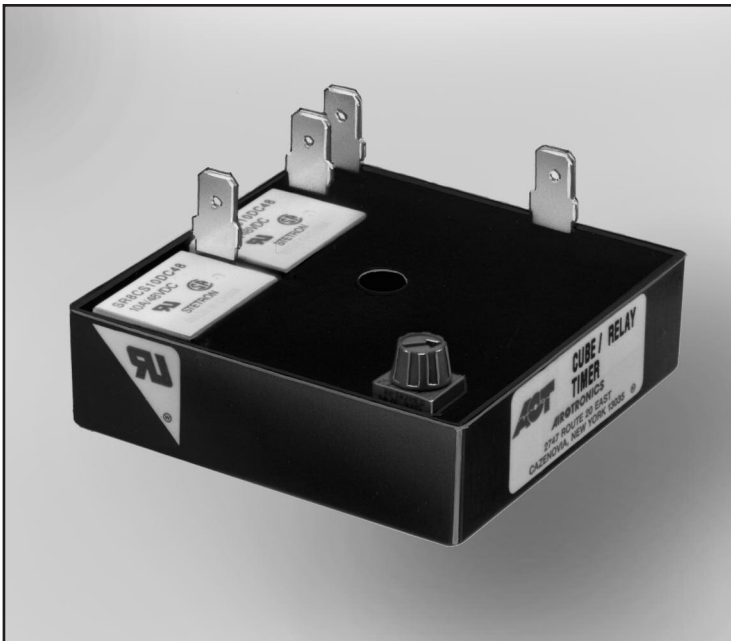


Timing Mode: **REPEAT CYCLE, OFF/ON**

Category: **TIMER WITH RELAY**

Series: **TGKDDB**

## CUBE RELAY, ALTERNATING, TWO OUTPUTS



### TGKDDB Timers

TGKDDB series Cube Relay Repeat Cycle (Dual Adjustable) Off/On 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 "Off" cycle and the "On" 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

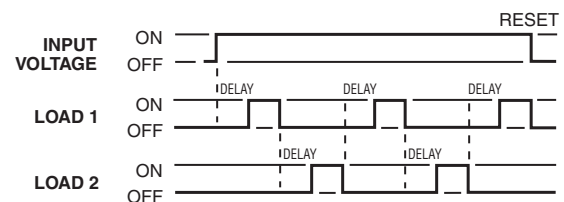
Application of power to the input voltage terminals starts the "Off" delay cycle.

At the end of the "Off" cycle, load 1 is energized, starting the "On" cycle.


At the end of the "On" cycle, load 1 de-energizes and another "Off" cycle starts.

At the end of this "Off" cycle, load 2 is energized for an "On" cycle.

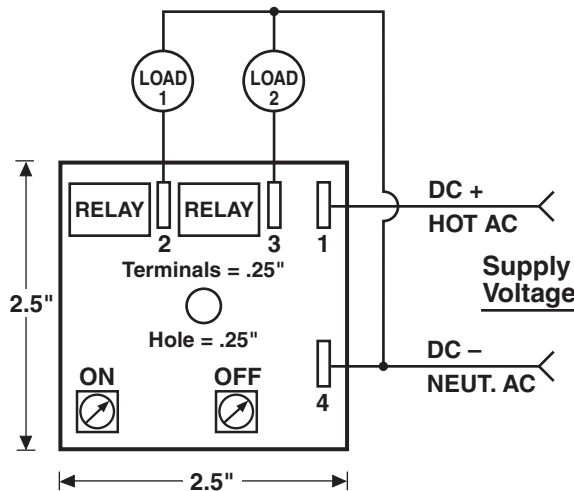
This alternating output action continues until power is removed.



### FEATURES

- High current-carrying capacity up to 10 amps
- 100% Load isolation
- No leakage in N.O. position
- No heat sinking required
- Available in any time delay periods required
- Digital CMOS timing
- Transient protected
- 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, 24-28  
 VAC: 24, 120, or 230, 50/60Hz  
 Optional: Any in-between AC or DC voltage

**Time Delay:**  
 Timing Mode: Repeat Cycle Off/On Alternating Outputs  
 Type: Digital CMOS  
 Time Range: 0.1 second to 24 hours  
 Time Adjustment: Variable, with adjustments on timer

**Repeatability:** ±0.5%

**Setting Accuracy:** Variable time ranges:  
 +15% -5% max. time, -10% min. time  
 Fixed time periods: ±10% of nominal time

**Reset/Recycle Time:** 100 milliseconds

**Initiate Time:** 6 milliseconds or less

**Life Expectancy:**  
 Mechanical: 20 million operations  
 Electrical: 100,000 operations at maximum load

**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

## OPTIONS SELECTION

Mode of Operation	Series	Input Voltage	Examples of Time Ranges	Time Adjustment Method	Relay Output Form	Options
<b>Alternating Repeat Cycle Off/On (Dual Adjustable)</b>	<b>TGKDDB</b>	1 120 VAC	<b>VARIABLE TIME PERIODS</b> 0001 0.1 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.	<b>A</b> Variable, integral, adjustments on timer. <b>C</b> Fixed, internal, time.	2 SPST	<b>H</b> 10 Amps <b>S</b> Special
		2 230 VAC				
		3 24 VAC				
		4 24-28 VDC				
		7 12 VDC				
		8 Any in between AC voltage (specify)				
		9 Any in between DC voltage (specify)	<b>FIXED TIME PERIODS</b> 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			

**EXAMPLE** TGKDDB 1 010/010 AA 2 120 VAC, 10 seconds load 1, 10 seconds load 2, both adjustable, SPST

*Specifications subject to change without notice.*