

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

Category: **SOLID STATE TIMER**

Series: **TBK**

MINIATURE CUBE SOLID STATE, DC VOLTAGE



TBK Miniature Timers

TBK timers are solid state output units with digital timing and come in a 1⁵/₈" square case. They are available for 8-40 VDC.

Ease of installation and hook-up is a primary design benefit. All models are available with integral time adjustment knob or factory-fixed time, and require only three connections.

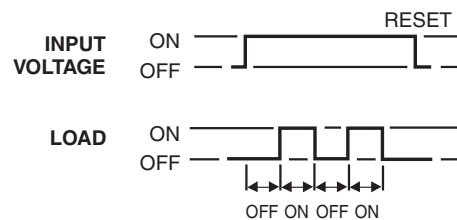
Timing Mode

Application of input voltage to the timer starts the "Off" time delay.

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

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

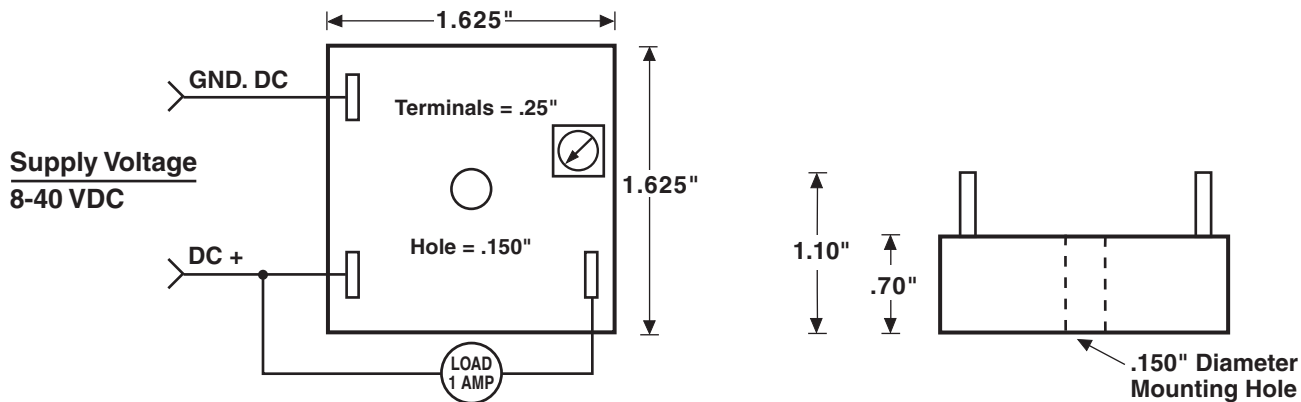
Removal of the input voltage resets the timer.



FEATURES

- Digital timing, solid state MOSFET output
- 1 Amp current load handling
- 10 Amps 100 ms (millisecond) surge handling
- Wide DC voltage range
- $\pm 0.1\%$ Repeat accuracy
- Virtually unlimited time ranges
- Factory-fixed or variable timing adjustment
- Totally encapsulated for protection from harsh environments
- O-ring sealed exposed controls
- Single #6 screw mounting through center mounting hole
- Standard 6.35mm (0.25") quick connect blade terminals
- 100% Operational testing before shipping
- RoHS compliance available

BASIC WIRING AND DIMENSIONS



SPECIFICATIONS

Repeat Accuracy: $\pm 0.1\%$ under fixed conditions
Timing Ranges: 0.1 sec. to 24 hours (1 sec., 10 sec., 100 sec., and 1000 secs. are standard.)
Special time ranges available upon request
Reset/Recycle Time: 100 milliseconds
Tolerances: Fixed: $\pm 10\%$ of nominal time
(optional: $\pm 5\%$, $\pm 1\%$)
 Variable: -0%, +15%
 Limit: -10% at minimum time
Recycle Effect: None
Temperature Ranges: Storage: -40°C to $+85^\circ\text{C}$
 Operating: -25°C to $+65^\circ\text{C}$
Life Expectancy: No predictable failure if used with operating parameters

Protection:
Polarity Protection: All DC units have reverse polarity protection
Transient Protection: 18 joules
Dielectric Strength: 1800V RMS 60Hz
Power Requirement: 0.25 watts max
Weight: 3 oz. (85g) maximum
Solid State Output: SPST (N.O.)
Load Current: 1 amp continuous, 10 amps 100 ms surge
Time Cycle Interrupt: Resets timer to original state (Input Voltage Break)

OPTIONS SELECTION

Mode of Operation	Series	Input Voltage	Examples of Time Ranges	Time Adjustment Method
Repeat Cycle Off/On Delay	TBK	4 8-40 VDC	VARIABLE TIME PERIODS	A Variable integral, knob on timer C Fixed, internal, factory set
			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 on special order.	
			FIXED TIME PERIODS	
			Specify in seconds (S) or hours (H) Examples: 400S is 400 seconds 05H5 is 5.5 hours	

EXAMPLE

TBK	4	0100	S	C
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 This is a TB series timer, Repeat Cycle Off/On Delay, 24 volt DC, 100 second fixed internal, factory-set time period.

Specifications subject to change without notice.