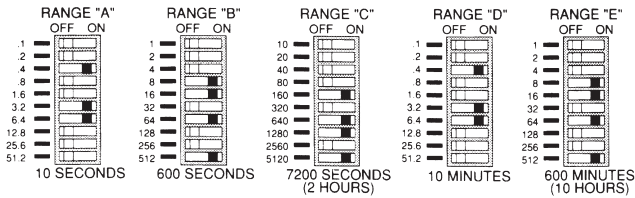


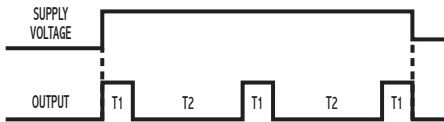
## OPERATION

When supply voltage is applied to the input, the relay energizes and ON time (T1) begins. Upon completion of the ON time, the relay de-energizes and the OFF time (T2) begins. Upon completion of the OFF time, the relay energizes and one cycle is complete. This ON/OFF cycling continues until supply voltage is removed from the input. The ON/OFF delay periods are independently selectable within the same range.

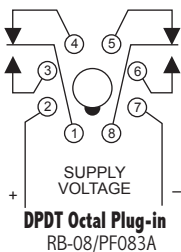
## DIP SWITCH OPERATION



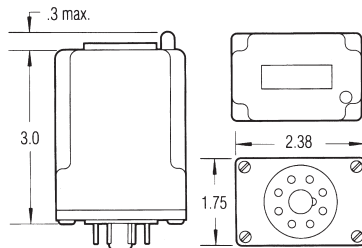
Digital selection of the time delay is accomplished by the use of ten (10) binary switches, each marked with a time increment. The time periods, of which there are five (5) ranges, represented by each switch in the ON position is added together to obtain the desired time delay. No more trial-by-error adjustments.



## WIRING

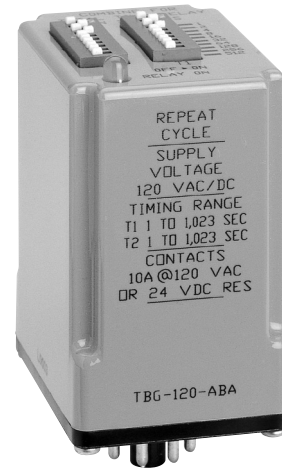


## DIMENSIONS



## MODEL NUMBER

MODEL NUMBER	TBG				A
<b>CONTROL VOLTAGE</b>					
12 Volts DC	12	D			
24 Volts AC/DC	24	A			
48 Volts DC	48	D			
120 Volts AC/DC	120	A			
240 Volts AC	240	A			
<b>TIME DELAY RANGE</b>					
0.1 to 102.3 SEC in 0.1 SEC Increments		A			
1.0 to 1,023 SEC in 1.0 SEC Increments		B			
10 to 10,230 SEC in 10 SEC Increments		C			
0.1 to 102.3 MIN in 0.1 MIN Increments		D			
1.0 to 1,023 MIN in 1.0 MIN Increments		E			
<b>HOUSING</b>					A



*Repeat Cycle-ON Time First  
DIP Switch TDR*

## SPECIFICATIONS

### TIME DELAY RANGE

A	0.1 to 102.3 SEC in 0.1 SEC Increments
B	1.0 to 1,023 SEC in 1.0 SEC Increments
C	10 to 10,230 SEC in 10 SEC Increments
D	0.1 to 102.3 MIN in 0.1 MIN Increments
E	1.0 to 1,023 MIN in 1.0 MIN Increments

### OUTPUT RATING

10 A @ 250 VAC or 24 VDC, resistive

### ACCURACY

Setting  $\pm 2\%$  or  $\pm 50$  mSEC; whichever is greater  
Repeat  $\pm 0.1\%$  or  $\pm 8.3$  mSEC; whichever is greater

### RESET TIMES

Before Time Out	100 mSEC
After Time Out	50 mSEC

### SUPPLY VOLTAGE

12, 24, 48, 120 or 240 VAC,  
50/60 Hz; or DC;  $\pm 10\%$

### FALSE TRANSFER

No

### REVERSE POLARITY PROTECTED

Yes

### POWER REQUIRED

3 VA, approximately

### DUTY CYCLE

Continuous

### TEMPERATURE RATING

Operate  $32^\circ$  to  $131^\circ\text{F}$  ( $0^\circ$  to  $+55^\circ\text{C}$ )  
Storage  $-49^\circ$  to  $185^\circ\text{F}$  ( $-45^\circ$  to  $+85^\circ\text{C}$ )

### LIFE EXPECTANCY

Mechanical 10 million operations, minimum  
Electrical 100,000 Operations @ rated load

### INDICATORS

LED glows when relay is energized.

### ISOLATION

1,500 volts, input/output

### WEIGHT

0.4 lbs.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ATC Diversified Electronics:](#)

[TBG-120-AAA](#) [TBG-12-DAA](#) [TBG-240-AAA](#) [TBG-48-DAA](#) [TBG-24-AAA](#)