



Off-Delay 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

<b>OUTPUT RATING</b>	SPDT	10 A @ 250 VAC or 24 VDC, resistive
	DPDT	5 A @ 240 VAC

<b>ACCURACY</b>	Setting	±2% or ±50 mSEC; whichever is greater
	Repeat	±0.1% or ±8.3 mSEC; whichever is greater

<b>RESET TIMES</b>	Before Time Out	100 mSEC
	After Time Out	50 mSEC

<b>SUPPLY VOLTAGE</b>	12, 24, 48, 120 or 240 VAC, 50/60 Hz; or DC; ±10%
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<b>FALSE TRANSFER</b>	No
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<b>REVERSE POLARITY PROTECTED</b>	Yes
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<b>POWER REQUIRED</b>	3 VA, approximately
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<b>DUTY CYCLE</b>	Continuous
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<b>TEMPERATURE RATING</b>	Operate	32° to 131°F (0° to +55°C)
	Storage	-49° to 185°F (-45° to +85°C)

<b>LIFE EXPECTANCY</b>	Mechanical	10 million operations, minimum
	Electrical	100,000 Operations @ rated load

<b>INDICATORS</b>	LED glows when relay is energized.
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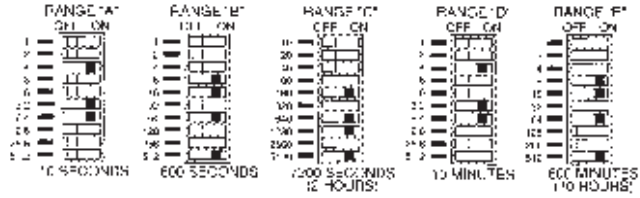
<b>ISOLATION</b>	1,500 volts, input/output
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<b>WEIGHT</b>	0.4 lbs.
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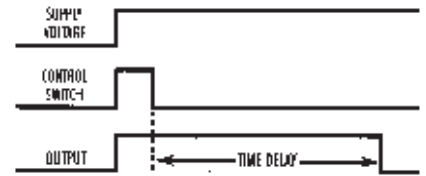
**OPERATION**

Supply voltage is continuously applied to the input. An external isolated switch between pins 5 and 6 controls the timer. When closed, the relay energizes. Opening the switch initiates the delay period. Upon completion of the delay period, the relay de-energizes. If the control switch recloses during the delay period, the relay remains energized and the timer resets to zero. NOTE: The TBD Series is available in an 8-pin SPDT and an 11-pin DPDT configuration.

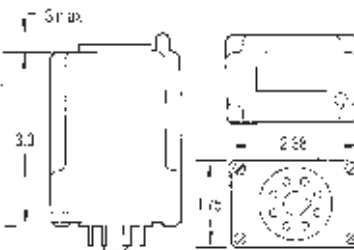
**DIP SWITCH OPERATION**



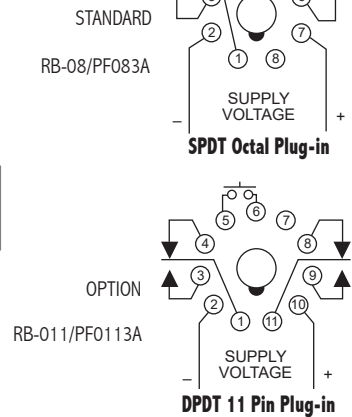
Digital selection of the time delay is accomplished by the use of ten (10) binary switches, each marked with a time increment. The time periods, of which there are five (5) ranges, represented by each switch in the ON position is added together to obtain the desired time delay. No more trial-by-error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



**DIMENSIONS**



**WIRING**



**MODEL NUMBER**

<b>MODEL NUMBER</b>	TBD				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	
<b>OPTION</b>	DPDT, 5 Amps @120 VAC, 11-Pin					D