The 339B is a solid-state TDR with octal plug-in base that maintains excellent repeat accuracy despite wide voltage and temperature variations even after long periods of down-time. The 339B has six dial selected ranges from fractions of a second to as long as 10 hours and selectable on-delay or interval timing modes. Fixed timing units are available upon request.

wide choice of ranges: In addition to the short ranges expected of an electronic TDR, the 339 is also available with ranges as long as 10 hours. An unusually versatile timer, the 339 has six dial-selected ranges—from 0.3 seconds to 3 hours or 1 second to 10 hours—and provides dial-adjustable timing periods between 0.075 seconds and 10 hours. A single 339 model thus accommodates the needs of a wide range of applications, allowing the user to select easily and precisely—an appropriate range to permit optimum setting accuracy. The dial face automatically displays the selected range.

**CYCLE PROGRESS INDICATION:** The 339's LED annunciator provides a unique and effective method of cycle progress indication. Off before timing, the LED blinks at an ever-increasing rate as the cycle progresses; once every 3-1/2 seconds during the first 10% of the cycle, twice during the second 10%, and so on. At time-out, the LED stays on constantly, pulsing at a high rate. (In the 1 and 10-second ranges, the LED is off before timing, steady on during timing, and pulsing on after time-out.)

**HIGH ACCURACY:** The 339's timing circuit is not a simple RC circuit, but includes counting technology along with a stable oscillator to provide repeatable time delays.

**MULTIPLE TIMING MODES:** Every 339 can be used for either on-delay or interval timing operation. The timing mode is selectable by a switch on the 339 housing.

## **OPERATION**

Timing begins when the start switch is closed. This starts an oscillator which runs at a frequency determined by the time setting. A fixed number of counts from the oscillator determines the end of the time cycle. The time required to accomplish this depends on the oscillator frequency. During timing, a LED located on the dial face blinks. For the first ten percent of the cycle, the LED repeatedly blinks once followed by a pause, for the second 10%, it blinks twice and so on indicating the cycle progress. It flashes rapidly and continuously after time out.

**ON-DELAY MODE:** At time out, the built-in relay transfers its contacts. These contacts remain transferred until the start switch is opened or power is removed by some other means. The 339 then resets and is ready for another cycle.

**INTERVAL MODE:** When timing begins, the built-in relay transfers its contacts. The contacts remain transferred until time out. The timer will not start again until the start switch is opened or power is removed by some other means. The 339 then resets and is ready for another cycle.









Plug-In Adjustable Time Delay Relay

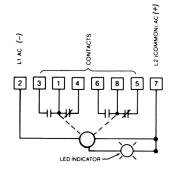
## MODEL NUMBER

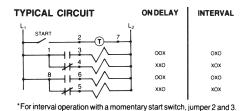
MODEL NUMBER	339B				
RANGE					
Six dial-selected	l ranges	359			
(.3 or 3 SEC, MI	N, HR)				
Six dial-selected	l ranges	200			
(1 or 10 SEC, M	IN, HR)				
VOLTAGE & FREQUENCY					
120 VAC, 50/60 Hz			Q		
240 VAC, 50/60 Hz			R		
24 VAC, 50/60 I	Hz, 24 VD	C	T		
12 VDC			Е		
ARRANGEMENT					
ON-Delay, Interval Mode				2	
Special			0		
FEATURES					
Standard					Х
Special					K

#### **ACCESSORIES**

8-Pin surface/DIN rail socket	000-825-85-00
Hold down for above socket	339-025-03-00
(2 required)	
Plug-in socket kit (8-pin)	319-261-45-00

## **WIRING**

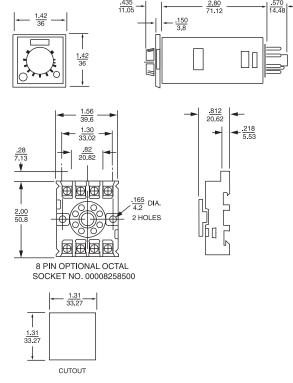


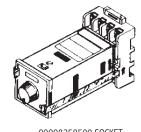




MODELS	Choice of two multi-range units.				
	All models operate in on-delay or interval mode.				
RANGES	Choice of two models				
	Six dial-selected ranges: 1.0 and 10 SEC, MIN,				
	HR or 0.3 and 3 SEC	, MIN, HR			
IINIMUM SETTING	3% of range, except 75 mSEC on 0.3 SEC and 1.0 SEC ranges.				
LOAD RELAY		AMPS resistive at 30 VDC AC (or less) 1/8 HP @120 VAC			
	100,000	n operations with no load operations with:10 AMPS at or less) or 10 AMPS at (or less)			
	CONTACT Silver Nic	, ,			
TEMPERATURE RATING	0° to 140°F (-17° t	o 60°C)			
MOUNTING	Plug-in octal base; mounts in any position with retaining clips.				
	OPTIONS: Surface r	nounting socket			
	DIN rail n	nounting socket			
		ounting adapter kit			
	Plug-on s	socket			
	Rear faci	ng terminal socket.			
OWER	120 VAC 95 - 132	VAC,50/60Hz			
REQUIREMENTS		4A Running025			
		4 VAC, 50/60 Hz			
		2A Running013A			
	24 VAC/DC 19.2 - 2	•			
		4A Running075A			
	12 VDC 9.6 - 13.				
		25A Running10A			
EPEAT ACCURACY		of line voltage and temperature			
	but not of reset time				
	a ±0.5% at constant temperature and voltage.				
	(or $\pm 15$ mSEC whichever is greater) b $\pm 1\%$ * at constant voltage and full temperature				
	range. (or $\pm$ 25 mSEC which ever is greater)				
	c ± 1.5%* at constant temperature and full voltage				
	range. (or $\pm$ 25 mSEC whichever is greater)				
	d $\pm 2\%^*$ over full voltage and temperature range. (or $\pm$ 30 mSEC, which ever is greater)				
	*Variations of line voltage must be within 95 and 132V;				
		een -17° and 60°C (0° and 140°F			
ECYCLE	The timer can be use	ed as a pulse generator with L1 pov			
CHARACTERISTICS	wired though its NC contacts. The pulse will be 35 mSEC				
	90 mSEC long. (40 mSEC typical pulse.)				
		ower interruption; Guaranteed no re			
	b 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical				
	c Over 90 mSEC guaranteed to reset. The TDR will reset				
	properly and not start timing when subjected to an				

# **DIMENSIONS** (INCHES/MILLIMETERS)





00008258500 SOCKET WITH 339-025-03-00 HOLD DOWNS

2.5 oz. (70 g)

open start switch leakage of 1.5 mA or less. (Prox switch and Triac drive applications)

**WEIGHT**