An economical solid-state TDR with octal plug-in base, the 339 maintains excellent repeat accuracy despite wide voltage and temperature variations/ even after long periods of down-time. Two models are available. Each has six dial selected ranges from fractions of a second to as long as 10 hours. Each model has a selectable on-delay or interval timing mode.

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

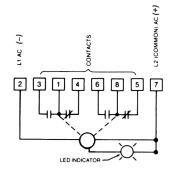
## MODEL NUMBER

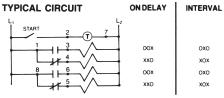
MODEL NUMBER	339B				
RANGE					
Six dial-selected	l ranges	359			
(.3 or 3 SEC, MI	N, HR)				
Six dial-selected	Six dial-selected ranges				
(1 or 10 SEC, M	IN, HR)				
<b>VOLTAGE &amp; FREQUE</b>					
120 VAC, 50/60	Hz		Q		
240 VAC, 50/60	D/60 Hz R				
24 VAC, 50/60 I	Hz, 24 VD	C	T		
12 VDC			Е		
ARRANGEMENT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

#### **ACCESSORIES**

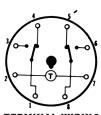
8-Pin surface/DIN rail socket	000-825-85-00
Hold down for above socket	339-025-03-00
(2 required)	
Plug-in socket kit (8-pin)	319-261-45-00

## **WIRING**







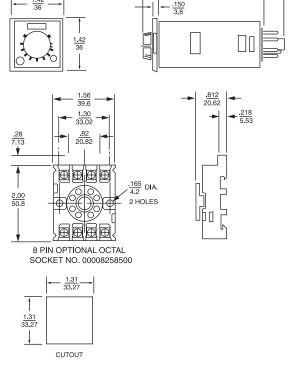


**TERMINAL WIRING** 

**WEIGHT** 

MODELC	Chaire			
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		
MINIMUM SETTING	3% of range, except 75 mSEC on 0.3 SEC and 1.0 SEC ranges.			
LOAD RELAY	TYPE	DPDT 10 AMPS resistive at 30 VDC		
		or 250 VAC (or less) 1/8 HP @120 VAC		
	LIFE	10 million operations with no load		
		100,000 operations with:10 AMPS at		
		30 VDC (or less) or 10 AMPS at		
	CONTACT	250 VAC (or less)		
	MATERIAL	Silver Cadmium Oxide		
TEMPERATURE Rating	0° to 140	°F (-17° to 60°C)		
MOUNTING	Plug-in octal base; mounts in any position with retaining clips.			
		Surface mounting socket		
	or mons.	DIN rail mounting socket		
		Panel-mounting adapter kit		
		Plug-on socket		
		Rear facing terminal socket.		
POWER	120 VAC	95 - 132 VAC,50/60Hz		
REQUIREMENTS	120 1/10	Inrush4A Running025		
	240 VAC	190 - 264 VAC, 50/60 Hz		
		Inrush2A Running013A		
	24 VAC/DO	19.2 - 26.4 VAC/DC		
		Inrush4A Running075A		
	12 VDC	9.6 - 13.2 VDC		
		Inrush25A Running10A		
REPEAT ACCURACY	Varies as	a function of line voltage and temperature		
	but not of reset time			
		% at constant temperature and voltage.		
		15 mSEC whichever is greater)		
	b ± 1%* at constant voltage and full temperature			
	range. (or ± 25 mSEC which ever is greater)			
	c ± 1.5%* at constant temperature and full voltage			
	range. (or ± 25 mSEC whichever is greater)  d ± 2%* over full voltage and temperature range.			
	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;			
	of temperature between -17° and 60°C (0° and 140°F)			
PECYCI E		· · ·		
RECYCLE CHARACTERISTICS	The timer can be used as a pulse generator with L1 power wired though its NC contacts. The pulse will be 35 mSEC to			
	90 mSEC long. (40 mSEC typical pulse.)			
	a 0 to 20 mSEC power interruption; Guaranteed no rese			
	b 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical r			
	c Over 90 mSEC guaranteed to reset. The TDR will reset			
	properly and not start timing when subjected to an			
		start switch laskage of 1 E mA or loss		

# **DIMENSIONS** (INCHES/MILLIMETERS)





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

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

2.5 oz. (70 g)