

# MODEL 339

## On/Off Delay Relay

- Provides On Delay & True Off Delay
- No Power Required During Off Timing Cycle
- On/Off Time Ranges Up to 5 Minutes
- Separate Delay Adjustments
- Standard Relay Wiring



### DESCRIPTION

The Model 339 ON/OFF Delay Relay is an electronic time delay relay which provides two functions: ON delay and true OFF delay. The ON delay begins when the appropriate power is applied. The relay contacts will transfer to the energized state upon completion of the ON delay period. If power is removed and re-applied before the delay period is completed, the delay period will be reset to zero, requiring the full time period to be completed before the OFF time can be started.

Timing of the true OFF delay period commences when power is removed. The Model 339 is unique, as it requires no power to be applied during the timing of its OFF cycle. This feature allows the Model 339 to find application in many cases where delayed action is required when no power is available.

Each time delay, ON and OFF, is separately adjustable. The Model 339 uses the same pin-out configuration as standard time delay and general purpose relays. It can be used in new or replacement applications for thermal, pneumatic, or spring-wound timers, or in place of general purpose relays or other electronic timers.

### SPECIFICATIONS

MODEL	339-24-xxx	339-48-xxx	339-120-xxx	339-240-xxx
Supply Voltage	20-28VAC/DC	40-55VAC/DC	100-140VAC/DC	200-255VAC/DC
Nominal Voltage	24V	48V	120V	240V
Power Consumption	0.25W max	1.0W max	1.5W max	2.25W max
Transient Protection	2500V for 10ms			
Timing Ranges (ON and OFF)	0.25 to 10 sec; 0.25 to 60 sec; 0.25 to 180 sec; 0.25 to 300 sec			
Timing Accuracy	± 2% of all ranges (fixed conditions)			
Repeatability	± 1%			
Contacts	DPDT 10A at 120VAC resistive			
Operating Temp	0° to +130° F			
Humidity Tolerance	0-97% w/o condensation			
Enclosure Material	ABS plastic			
Mounting	8-pin socket (not included)*			
Weight	5 oz.			

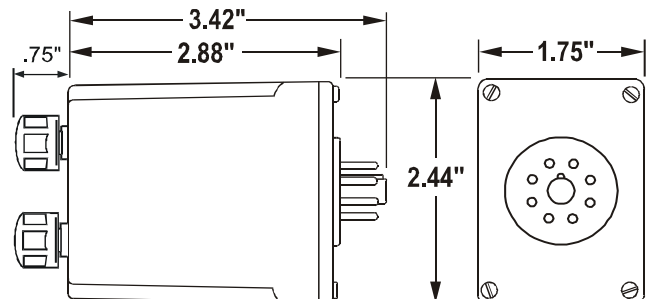
\* order 8-pin socket number 51X120

### ORDERING OPTIONS

MODEL	VOLTS	DELAY
339	24VAC/DC	10 Seconds
	48VAC/DC	60 Seconds
	120VAC/DC	180 Seconds
	240VAC/DC	300 Seconds

EXAMPLE: 339-240-60 orders a 240VAC/DC timer, with a delay range of 0.25 to 60 seconds.

### DIMENSIONS



(dimensions have tolerance of ± 0.06)

# MODEL 339 On/Off Delay Relay

READ ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING OR SERVICING THIS DEVICE.  
KEEP THIS DATA SHEET FOR FUTURE REFERENCE.

## GENERAL SAFETY

POTENTIALLY HAZARDOUS VOLTAGES ARE PRESENT AT THE TERMINALS OF THE MODEL 339.  
ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING.  
THIS DEVICE SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

## Installation Instructions

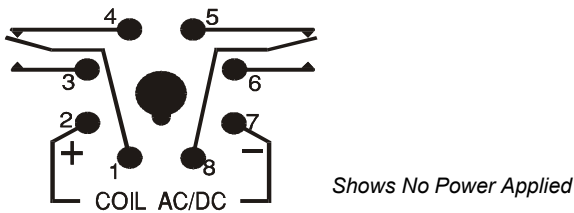
### APPLICATION NOTE

Relay ON time must be greater than OFF time to recharge internal battery.

### INSTALLATION

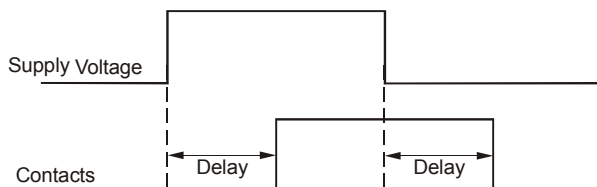
The Models 339 On/Off Delay Relay requires a standard 8-pin socket for mounting, and uses a standard pin configuration. Refer to the pin drawing below, or on the timer, for terminal connections.

### PIN DRAWING



**NOTE:** When installing the Model 339 relay in areas of high humidity or contamination, it is recommended that the base area and all exposed metal parts of the socket be coated liberally with a good quality silicone grease, such as Dow Corning DC-4 or DC-4X. Insert the unit into the socket and wipe off excess grease around the base. This will prevent the entrance of moisture and other contaminants into the base and socket areas.

### TIMING DIAGRAM



### OPERATION

When voltage is applied to the Model 339, the LED will blink during the ON DELAY and then remain on constantly as the relay energizes. If power is removed before the ON DELAY time is completed, the relay will reset and require the full ON time to be completed before the relay operates when power is reapplied.

When voltage is removed, the Model 339 will remain energized for the OFF DELAY with the dimmed LED slowly blinking, then drop-out. If power is removed and reapplied during the OFF DELAY period, the LED will be on constantly and reset the OFF DELAY time.

The controls are monitored only while power is applied. While timing ON, the delay can be reduced by turning the ON DELAY control counterclockwise while it is timing. The OFF DELAY cannot be changed while it is timing.

### ACCESSORIES

51X120	8-Pin Socket <i>(required)</i>
98A498	Safety Enclosure <i>(optional)</i> -with built-in 51X120 8-Pin Socket
98A535	Hold Down Clamp <i>(optional)</i>

### WARRANTY

This product is warranted to be free from defects in materials and workmanship, and is covered by our exclusive **5-year Unconditional Warranty**. Should this device fail to operate for any reason, we will repair it for five years from the date of manufacture. For complete warranty details, see the *Terms and Conditions of Sales* page in the front section of the Time Mark catalog or contact Time Mark at 1-800-862-2875.