

# MODEL 331 MODEL 361

## Release Delay Relays

- Solid-State Design
- Multiple Voltage & Timing Ranges
- UL and CSA Approved to 120VAC
- 5-Year Unconditional Warranty

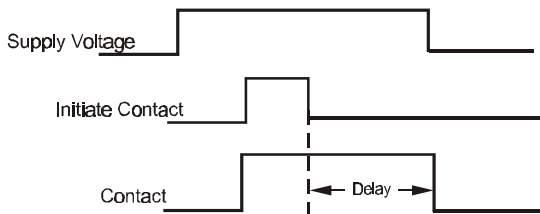
### DESCRIPTION

The **Models 331 and 361 Release Delay Relays** are designed for a wide usage in new or replacement industrial applications. Examples include delay-off circuits, batch processing circuits, and other applications requiring a remote-triggered, off-delay timer.

The Model 331 is a DPDT, knob-adjustable timer. The Model 361 is a DPDT, high-accuracy digital timer. Solid-state timing circuits in each model drive an internal electromechanical relay.

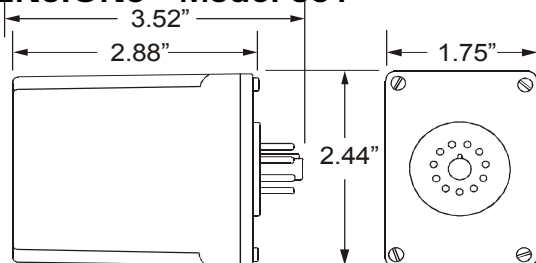
Each model is functionally interchangeable. They are available in a variety of voltage and timing ranges to cover any application. Both the Model 331 and Model 361 are UL Recognized and CSA Certified in voltage ranges of 120vac/dc, or less. The Model 361 is CSA Certified in voltage ranges of 230VAC/DC.

### OPERATION



Supply voltage must be constantly applied. When the control switch is closed, the internal relay will energize. Timing begins when the control switch is opened. The delay can be reset by reclosing the control switch. On completion of the delay, the relay will de-energize.

### DIMENSIONS - Model 361



(dimensions have tolerance of  $\pm 0.06$ )



### SPECIFICATIONS

MODEL	331	361
Supply Voltage	12, 24, 120 or 230 VAC/DC	
Timing Range	1 - 10 seconds 1 - 60 seconds 1 - 180 seconds 1 - 300 seconds	0.1 - 102.3 seconds 1 - 1023 seconds 1 - 1023 minutes
Accuracy	$\pm 5\%$	$\pm 2\%$
Repeatability	$\pm 2\%$	$\pm 0.1\%$
Recycle Time	100 msec	20 msec
Contact Rating	DPDT 10A at 120VAC resistive	
Transient Protection	2500 VRMS for 10 msec	
Operating Temperature	$-40^{\circ}$ to $+140^{\circ}$ F	
Humidity Tolerance	0 - 97% w/o condensation	
Enclosure Material	ABS plastic	
Mounting	11-pin socket *not included	
Weight	5 oz.	
Agency Approval	UL Recognized and CSA Certified up to 120VAC/DC	

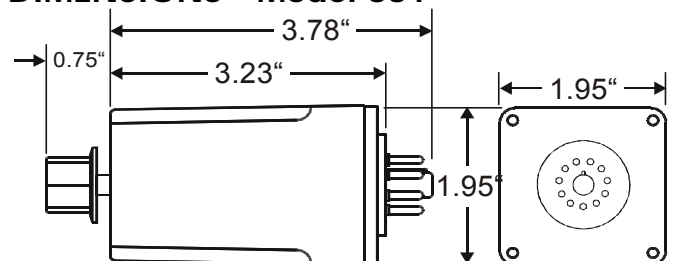
\* order 11-pin socket number 51X016

### ORDERING OPTIONS

MODEL	VOLTS	DELAY	
331 (knob-adj)	12 VAC/DC	331 ONLY	361 ONLY
361 (digital)	24 VAC/DC	10 seconds	0.1 seconds
	120 VAC/DC	60 seconds	1 Second
	230 VAC/DC	180 seconds	1 Minute
		300 seconds	

EXAMPLE: 331-24-180 orders a knob-adjustable 24VAC/DC timer, with a range of 1 to 180 seconds.

### DIMENSIONS - Model 331



(dimensions have tolerance of  $\pm 0.06$ )