

Solid State Timers and Controllers



**Delay-On-Make Timing Module** 

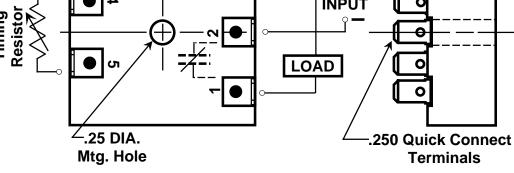
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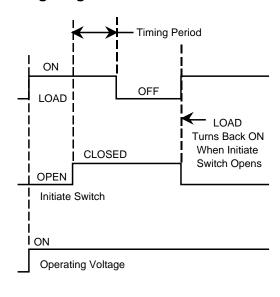
Mechanical . .

The model 4388 is a delay-on-make timer with the output contacts normally closed. When operating voltage is applied to a load connected to the model 4388 the load circuit will turn ON. The load circuit will remain ON until an initiate switch closes and a preset timing period expires. At the end of the preset timing period the output contacts open and the load circuit is turned OFF. When the initiate switch is opened, the output contacts close and the load circuit is turned back ON. The model 4388 is available in both fixed timing and adjustable timing models. All 4388 models are rated for 8 amperes service on the output contacts.

←1.125max. → 2.0 SQ. Initiate Switch ╎╋ INPUT



Timing Diagram ..... External Timing Resistance Chart.



Ti	ming Period vs Timing Resistor				
External Resistor	DASH NO				
(Ohms)	-1	-2	-3	-4	-5
0	0.1	1	2	10	30
1 Meg	4	30	100	500	900
3 Meg	12	90	300	1,500	2,700
5 Meg	20	150	500	2,500	4,500
10 Meg	30	300	1,000	5,000	8,000

The External Timing Resistance Chart indicates the range of timing that can be achieved with the external resistance value shown. I.E. The -2 range indicates a timing range of 1 to 30 seconds when the external timing resistance varies from 0 to 1 meg ohm. The -2 extended range of 300 seconds can be achieved by using a 0 to 10 meg ohm external resistance.

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ARTEN Solid State Timers and Controllers

Specifications	
. Operating Voltage:	5VDC, 12V DC, 24V DC, 48V DC, 12V AC, 24V AC, 48V AC, 115V
	AC, and 230V AC. See Ordering Information.
Voltage Tolerance:	±20% AC & DC models, AC 50/60Hz.
	30 mA maximum all models.
	Delay-On-Make - Output contacts normally closed.
	Factory fixed at any timing period from 1 seconds to 8,000 seconds.
	$\pm 10\%$ of specified timing period.
	5 models provide for remotely adjustable timing from 0.1 to 8000 seconds.
	(see Ordering Information).
	Minimum Time - 15%, +0%. Maximum Time - 0%, +15%
Timing Resistor Rating:	Worst case power dissipation never exceeds 15 milliwatts for external
Timing Veriation	timing resistors.
	Less than 5% of set point over full temperature and voltage range.
Repeatability Of Timing Period:	
Recycle fille.	Initiate switch must be open for a minimum of 200 milliseconds to assure all timing and output circuits are reset.
Initiate Switch	•
	SPST rated for 30 mA service at maximum operating line voltage. Relay contacts SPST-NC.
	1/4 HP, 125, 250V AC; 8A 125, 250V AC, 8A 30V DC.
	50,000,000 mech., 100,000 electrical operations minimum at 250V AC.
	Protected by silicon transient suppressors responding to transients within
Transient Polection.	$1 \times 10^{-12}$ seconds to a peak pulse power dissipation of 1500 watts, with
	transient surge currents to 200 amperes for durations up to 1/120 second
	at 25° C. Maximum transient voltage protection is 6000 volts as delivered
	through a source resistance of 30 ohms with a maximum duration of
	8.3ms.
Dielectric:	1500V rms all terminals to case.
<b>Operating Temperature:</b>	
	Encapsulated module with .25 quick connect wiring terminals.
Data Sheet Revision Date:	
<b>Ordering Information Fixed T</b>	iming Models

Part Number	Operating Voltage	(X) Fixed Timing In Seconds	Example: 4388F - 9 - 45
4388F - 1 - X	5V DC		Example: 4388F - 9 - 45
4388F - 2 - X	12V DC	Specify the fixed timing	Is a model 4388F with 230V AC
4388F - 3 - X	24V DC		operating voltage with a fixed
4388F - 4 - X	48V DC	period in seconds from	time of 45 seconds $\pm 10\%$ .
4388F - 5 - X 4388F - 6 - X	12V AC 24V AC	0.1 to 8000	
4388F - 6 - A 4388F - 7 - X	24V AC 48V AC		The 45 seconds is measured
4388F - 8 - X	115V AC		from the time the initiate switch
4388F - 9 - X	230V AC		is closed.

Ordering Information Adjustable Timing Models .....

Part Number	Operating Voltage	(X) Timing Range In Seconds	Example: 4388A - 8 - 2
4388A - 1 - X 4388A - 2 - X 4388A - 3 - X 4388A - 4 - X 4388A - 5 - X	5V DC 12V DC 24V DC 48V DC 12V AC	-1 (0.1-30) -2 (1-300) -3 (2-1000)	<i>Is a model 4388A with 115V AC operating voltage with a adjustable time of 1 - 300 seconds</i>
4388A - 6 - X 4388A - 7 - X 4388A - 8 - X 4388A - 9 - X	24V AC 48V AC 115V AC 230V AC	-4 (10-4500) -5 (30-8000)	The adjustable timing period is measured from the time the initiate switch is closed.

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