

Solid State Timers and Controllers

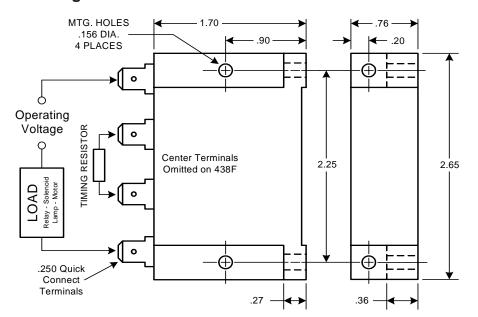


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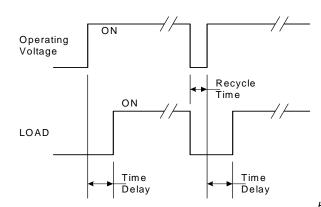
Delay-On-Make Time Capsule®

The Model 438 delay-on-make is another member of the Artisan Controls Corporation family of Time Capsules[®]. To use the model 438 connect the outer two terminals in series with any load circuit that draws between ten milliamperes and one ampere. Connect to the specified operating voltage between 12 and 240 volts either AC or DC. Connect the proper timing resistor across the center two terminals (on adjustable models) and apply operating voltage. When the operating voltage is applied a small amount of current will flow through the load and the timer. At the end of the delay period, the model 438 turns ON and full load current is permitted to flow. To recycle, remove the operating voltage for at least 50 milliseconds.











External	DASH NO.					
Resistor (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	4,500	8,000	

How The Chart Works.

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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Specifications	
Voltage Tolerance:	12V AC/DC, 24V AC/DC, 48V AC/DC, 115V AC/DC, 230V AC/DC. ±20% at specified operating voltage. Delay-On-Make, external load energizes after preset timing period.
	Factory fixed at any timing period from 0.1 seconds to 10,000 seconds.
	Twenty (20) ranges from five (5) models of adjustable delay-on-make timing from 0.1 seconds to 8,000 seconds.
Timing Resistor Rating:	Minimum time - 15%, +0%. Maximum time - 0%, +15%. Worst case power dissipation never exceeds 3 milliwatts.
	Less than 6% of set point over full temperature and voltage range.
	±1% at stabilized operating voltage temperature. Operating voltage must be removed for a minimum of 50mS after timing period, 200 milliseconds during timing period to assure new cycle repeats to full time delay period.
Output Switch Characteristics:	10mA to 1A inductive with inrush current to 25A for 8 milliseconds. 4 volt drop across output switch when ON, 3mA leakage when OFF. Protected by silicon transient suppressors responding to transients within 1 x 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
Operating Temperature: Construction:	Encapsulated module with .25 quick connect wiring terminals. UL File #E47858: Component - Appliance Controls, ATNZ2 (US) and ATNZ8 (Can), Component - Auxiliary Devices NKCR2 (US) and NKCR8 (Can)

Ordering Information Fixed Timing Models

Part Number	 Operating Voltage 	 Fixed Timing In Seconds
438F -	- 12 - 24 - 48 - 115 - 230 Operates On Either AC Or DC	Specify the fixed timing period in seconds from 0.1 to 10,000

Example: 438 F - 115 - 600 438, operating from 115V AC, or DC with fixed timing of 600 seconds.



Ordering Information Adjustable Timing Models

Part Number	Operating Voltage	Timing Range In Seconds	
438A -	- 12 - 24 - 48 - 115 - 230 Operates On Either AC Or DC	-1 (0.1 - 30) -2 (1 - 300) -3 (2 - 1000) -4 (10 - 4500) -5 (30 - 8000)	Example: 438 A - 24 - 2 438, operating from 24V AC, with adjustable timing from 1 to 300 seconds.

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