



Solid State Timers and Controllers



438APS

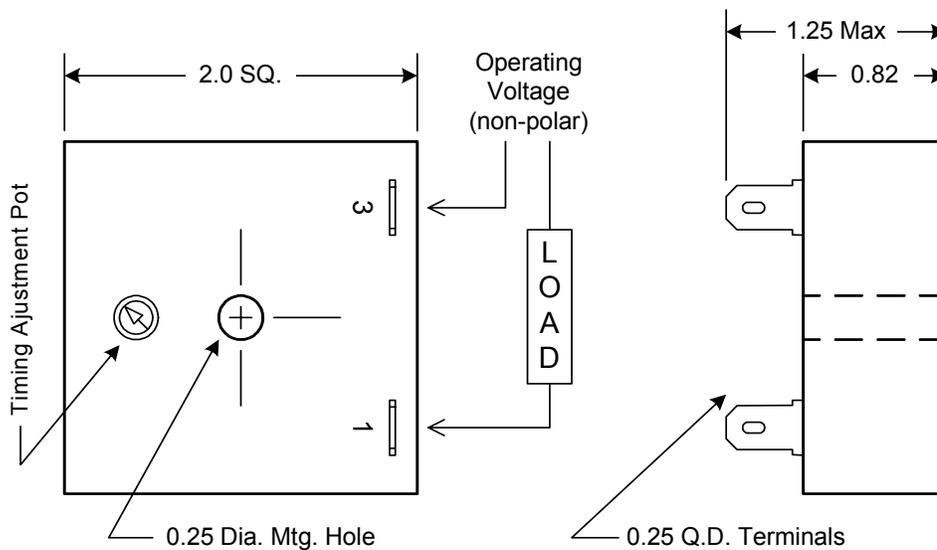
Potentiometer Adjustable Delay On Make Timer



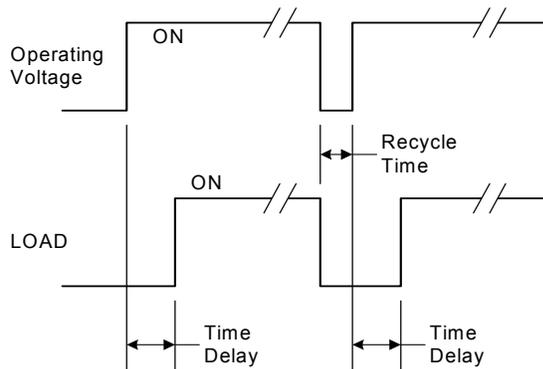
The Model 438APS delay-on-make timer is a member of the Artisan Controls Corporation family of Time Capsules®. Connect terminals 1 & 3 in series with any load circuit that draws between ten milliamperes and one ampere and then connect to the specified operating voltage between 12 and 240 volts either AC or DC. Adjust the integral potentiometer to the time desired 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 timer

turns ON and full load current is permitted to flow. To recycle, remove the operating voltage for at least 50 milliseconds.

Mechanical & Wiring



Timing Diagram



Potentiometer Range Timing Chart

Pot Position	Timing Range Dash Number				
	-1	-2	-3	-4	-5
Min	0.1	1	2	10	30
Max	8	60	200	1000	1800

Load turns ON after time delay, remove power for Recycle Time to reset timer

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 Artisan Controls Corporation, 111 Canfield Ave., Bldg B15-18, Randolph, NJ, 07869, USA



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Specifications

Operating Voltage: 12V AC/DC, 24V AC/DC, 48V AC/DC, 115V AC/DC, 230V AC/DC.

Voltage Tolerance: ±20% at specified operating voltage.

Timing Mode: Delay-On-Make, external load energizes after preset timing period.

Adjustable Timing Ranges: Five (5) models of adjustable delay-on-make timing from 0.1 seconds to 1800 seconds.

Timing Range Accuracy: Minimum time -15%, +0%. Maximum time -0%, +20%.

Timing Variation: Less than 6% of set point over full temperature and voltage range.

Repeatability Of Timing Period: ±1% at stabilized operating voltage & temperature.

Recycle Time: 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 Rating: 10mA to 1A inductive with inrush current to 25A for 8 milliseconds.

Output Switch Characteristics: 4 volt drop across output switch when ON, 3mA leakage when OFF.

Transient Protection: Protected by silicon transient suppressors responding to transients within 1×10^{-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.

Operating Temperature: -20°C to +85°C

Construction: Encapsulated module with .25 quick connect wiring terminals.

Agency Recognitions: UL File E47858, Appliance Controls - Component ATNZ2 (US) & ATNZ8 (Can), Auxiliary Devices - Component NKCR2 (US) & NKCR8 (Can).

Data Sheet Revision Date: February 9, 2006

Ordering Information

Part Number	Operating Voltage	Timing Range
438APS	-12	-1 (0.1 - 8) -2 (1 - 60) -3 (2 - 200) -4 (10 - 1000) -5 (30 - 1800)
	-24	
	-48	
	-115	
	-230	
	AC or DC	

Example:

438APS-115-3 operates from 115V AC or DC with a time delay adjustable from 2 - 200 seconds

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