

UNIVERSAL SERIES - DELAY ON MAKE, INTERVAL & FLASHERS

"UNIVERSAL" voltage in-line Time Capsules are now available in three different timing modes Delay on Make, Interval and Flasher. All models operate with input voltages from 24 to 240 volts AC/DC. They differ only in the timing ranges and how the timing is set. There is no need to observe polarity with any of this series.

438U, 438UI, 438UF - The timing is set by adding a resistor across the middle two terminals. A jumper across the timing terminals produces a one second delay, add 10K per second to increase time. 438USA, 438USAI, 438USA-INT, 438USAF - timing is set by the binary coded ten position DIP switch which enables the time to be set over the entire timing ranges. 438UP, 438UPI, 438PF - timing is controlled by a sealed potentiometer located between the terminals.

Universal Delay on Make 1 Ampere Output, Voltage Drop of 4 Volts

438U (UL/CSA)	19 - 288 VAC/DC	1 - 1000 Seconds
438 UP (UL/CSA)	19 - 288 VAC/DC	1 - 480 Seconds
438USA (UL/CSA)	19 - 288 VAC/DC	1 - 1024 Seconds
P438USA	24 - 240 VAC/DC	1 - 1024 Seconds (3 amp output)
P438USA-1	24 - 240 VAC/DC	2 - 2048 Seconds (3 amp output)



Universal Interval Time Capsule .25 Ampere Output, Voltage Drop of 10 Volts

438UI	24 - 240 VAC/DC	1 - 1000 seconds
438UI-1	24 - 240 VAC/DC	0.1 - 100 Seconds
438UI-2	24 - 240 VAC/DC	10 - 10,000 Seconds
438USAI	24 - 240 VAC/DC	1 - 1024 Seconds
438USA-INT	24 - 240 VAC	1 - 1024 Seconds (1 amp output)
438UPI	24 - 240 VAC/DC	5 - 480 Seconds



Universal Flashers .25 Ampere Output, Voltage Drop of 10 Volts

438UF	19 - 288 VAC/DC	2 - 2000 Flashes Per Second
438USAF	19 - 288 VAC/DC	2 - 2048 Flashes Per Second



438A DELAY ON MAKE TIME CAPSULE

The 438 Time capsule is an all solid state timing module for delay on make control of any one ampere or DC load device. Simply connect the timer in series with the load, there is no need to observe polarity. The timer is available in specified voltages - 12, 24, 48, 115 & 230 V AC or DC. There are five timer ranges available which span 0.1 to 8000 seconds depending on the range selected. Connect a fixed resistor or adjustable potentiometer across the middle two terminals. When power is applied, the 438A will start the time delay period. At the end of this period, full load current is allowed to flow, energizing the load. UL/CSA Listed.

<u>Part Number</u>	<u>Operating Voltage</u>	<u>Timing Ranges/Seconds</u>
438A	-12	-1 (0.1 - 30)
	-24	-2 (1 - 300)
	-48	-3 (2 - 1000)
	-115	-4 (10 - 4500)
	-230	-5 (30 - 8000)

