

RELAYS & CONTACTORS



DELAY ON MAKE / INTERVAL TIMERS 438USA, 438USA-INT



DESCRIPTION

The **Artisan Controls Model 438USA** universal switch-adjustable time capsule is an all solid state timer that provides delay on make (ON-Delay) control of a load device operating from 19-288 VAC/DC. The **Model 438USA** controls up to a 1A load, such as a relay or solenoid.

The **Model 438USA-INT** universal switch-adjustable time capsule is an all solid-state timer that provides interval timing control of a load device operating from 24 to 240 VAC. The **438USA-INT** controls up to a 1A load, such as a relay or solenoid.



438USA



438USA-INT



FEATURES

- Encapsulated digital-timing circuitry
- Switch-selectable delay
- Low cost
- Transient protected
- 1A output rating

OPERATION

General

Timing is set via a binary-coded DIP switch and is adjustable from 1 to 1024 seconds. With all switches closed, there is an internal, one-second delay; with all switches open, there is a 1024-second delay time. Prior to applying power to the timer, set the switches to the correct position for the desired time.

438USA - Delay-on-Make (ON-Delay)

When power is applied, the **Model 438USA** remains in the off state, allowing only leakage current to flow. Once the preset time period elapses, the unit switches on, allowing full current

to flow and the load to energize. The load remains energized as long as power is applied. When power is removed, the unit resets and is ready for another timing period.

438USA-INT - Interval

When voltage is applied, the **Model 438USA-INT** turns on, permitting full load current to flow. At the end of the preset timing period, the unit turns off and permits only leakage current to flow through the load. To recycle, the operating voltage must be removed and reapplied.

SPECIFICATIONS

Coil Rating	24-240 VAC (50/60 Hz), 19-288 VAC (50/60 Hz) or VDC	Recycle Time	100 ms, 50 ms after timing cycle, 200 ms during timing cycle
Leakage Current		Repeatability	±1% nominal
438USA-INT	Off State: 1 mA maximum @ 240V,	Timing	Interval timer, Delay on make (ON-Delay)
438USA	Off State: 0.6 mA @ 24V, 1.8 mA @ 48 V, 5.4 mA @ 120V, 11.4 mA @ 240 V	Operating Temperature	-4° to 185°F (-20° to 85°C)
Output	10 mA to 1A inductive; inrush current to 25A for 8 ms	Storage Humidity	95% non-condensing
Range	1 to 1024 seconds, 1-second increments	Approvals	UL-recognized component, File #E47858; CSA certified, File #LR31931-3
Transient Protection	6000V for 8.3 ms	Weight	0.2 lb (0.091 Kg)
Voltage Drop	4V maximum, ON state	Warranty	1 year
Accuracy	±10% of setpoint		
Adjustments	10-position DIP switch		

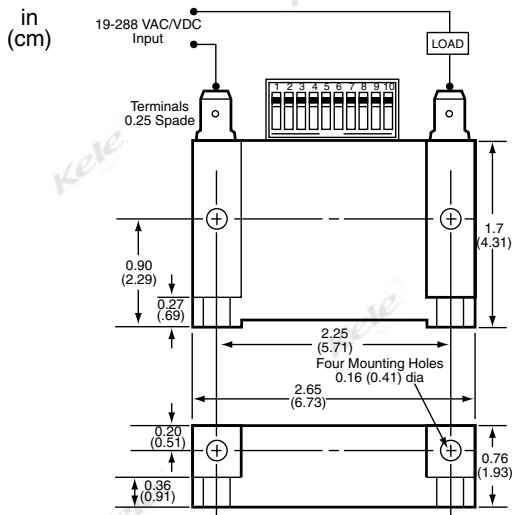


RELAYS & CONTACTORS

DELAY ON MAKE / INTERVAL TIMERS

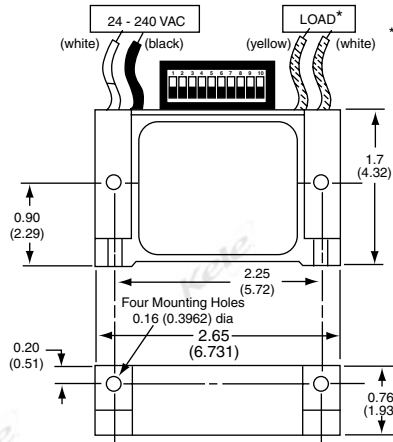
438USA, 438USA-INT

DIMENSIONS / WIRING



438USA

Four 20 AWG wire (two for operating voltage and two for load circuit)



* Do not apply voltage to load wires. The load is powered from the input voltage.

438USA-INT

TIME SETTINGS

To delay 540-second interval

To delay 60-second interval

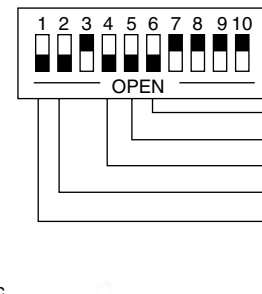
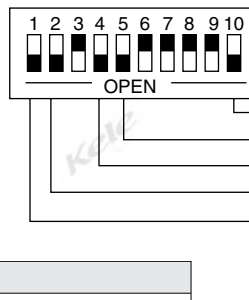
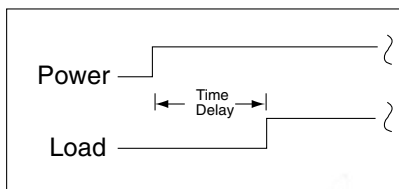
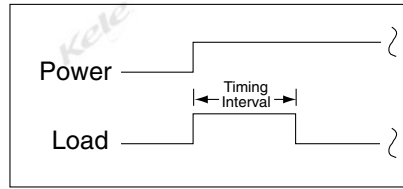


FIGURE 1. TIMING



438USA



438USA-INT

ORDERING INFORMATION

MODEL
438USA-INT
438USA

DESCRIPTION
Universal switch-adjustable time capsule, interval timer
Universal switch-adjustable time capsule, delay on make (ON-delay) timer