



Solid State Timers and Controllers

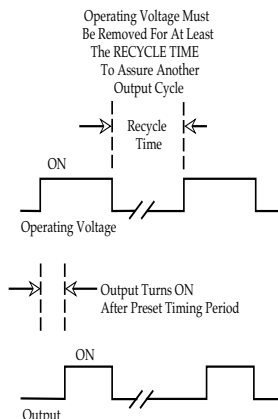
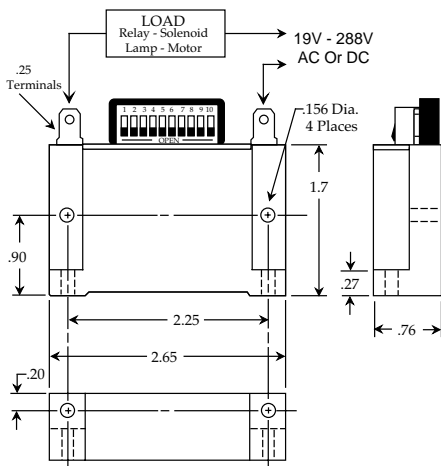


438USA

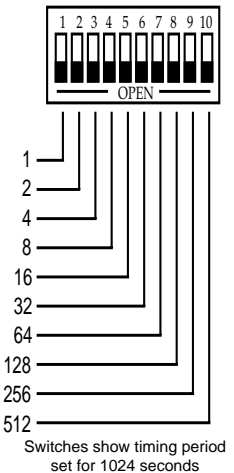
Universal Switch Adjustable Time Capsule®

The Model 438USA is the most popular of all Artisan Controls Corporation Time Capsule® devices. By merely connecting the two terminals in series with any load circuit drawing between ten milliamperes and one ampere operating from any voltage between 19 volts and 288 volts AC or DC, the 438USA turns that load circuit into a delay on make timing circuit. Set the 10 DIP switches to the required delay, and apply operating voltage. When the operating voltage is applied, a small amount of current will flow through the load and the timer (leakage current). At the end of the delay period, the model 438USA turns ON and full load current is permitted to flow

Mechanical Timing Diagram How The DIP Switches Work ..



Switch #1 will add 1 second to the timing period when open. Switch #2 will add 2 seconds to the timing period when open. Switch #3 will add 4 seconds to the timing period when open. Switch #4 will add 8 seconds to the timing period when open. This binary progression permits delay periods ranging from 1 second to 1024 seconds in 1 second increments.



Specifications

Operating Voltage: 19 to 288 Volts AC 50/60 Hz or DC.

Timing Mode: Delay-On-Make, External load energizes after preset timing period as set by the 10 DIP switches.

Timing Range: Digital timing is DIP switch programmable from 1 to 1024 seconds.

Timing Adjustment: From 1 second (All Closed) to 1024 seconds (All Open) in 1 second increments.

Programmable Timing Tolerance: ±10%

Timing Variation: ±15% worst case at any combination of operating voltage and temperature.

Repeatability Of Timing Period: ±1% nominal.

Recycle Time: 50 milliseconds if output is ON, 200 milliseconds during a timing cycle while output is OFF.

Output Rating: 10 milliamperes to 1 ampere inductive with inrush current to 25 amperes for 8 milliseconds.

Output Voltage Drop in "ON" State: 4 volts maximum.

Leakage Current in "OFF" State: 0.6 mA @ 24V, 1.8 mA @ 48V, 5.4 mA @ 120V, 11.4 mA @ 240V.

Transient Protection: Maximum transient voltage protection is 6000 volts as delivered through a source resistance of 30 ohms with a maximum duration of 8.3 milliseconds.

Operating Temperature: -20°C to +85°C

Humidity: 95% condensing

Terminations: Two (2) .25 Faston type.

Agency Recognition: UL E47858 (ATNZ2) & (NKCR2), CSA LR31931-3, National Stock Number: NSN 5999-01-113-0824.

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