

Timing Mode: **REPEAT CYCLE, ON/OFF or OFF/ON**  
 Category: **SOLID STATE TIMER**  
 Series: **MC337 MICROPROCESSOR**

**CUBE SOLID STATE, DUAL DIPSWITCH ADJUSTMENT**



**MC Dual Adjust Recycle**

MC337 series is a microprocessor-based recycle timer with solid state output, independent ON time / OFF time dipswitch adjustments and LED indicator.

Provides timed sequencing of functions such as liquid dispensing, moisture purging, stirring, controlled lighting, feed distribution, water and air circulation, and many more.

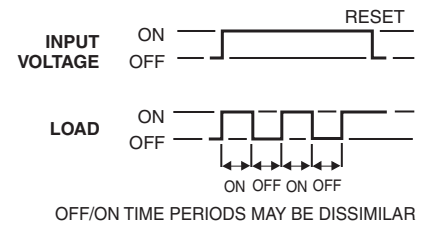
**Timing Mode**

On/Off Delay shown, Off/OnDelay available


When power is applied, the timer selected by the "c" option (ON first or OFF first) is started and controls the load switch. When the first time delay expires, the second time delay begins. The load on/off cycling continues until power is removed.

Red LED indicates output switch is on; green LED indicates output switch is off.

"On" and "Off" time periods may be dissimilar.

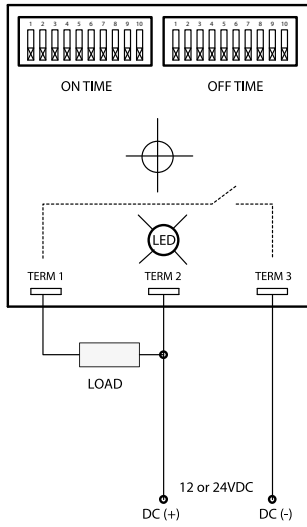


**FEATURES**

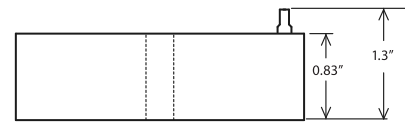
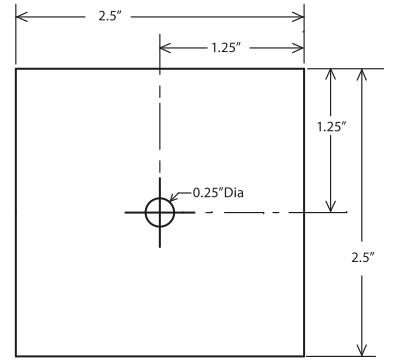
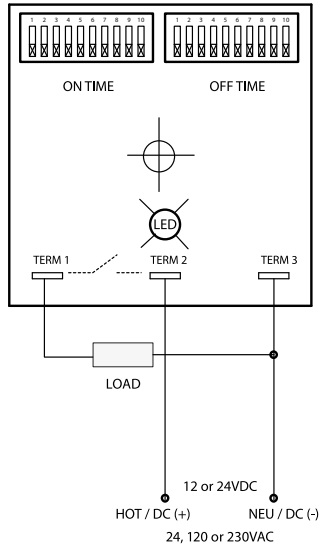
- Microprocessor-based accurate timing
- Binary dipswitch adjustable
- Wide selection of time ranges for both on and off times
- Wide selection of AC and DC input voltages
- Encapsulated circuitry for protection in harsh and humid environments
- 100% Operational testing
-  RoHS compliance available

# BASIC WIRING AND DIMENSIONS

**DC Low Side configuration**



**AC / DC High Side configuration**



## SPECIFICATIONS

- Input Voltage tolerance:**  $\pm 10\%$
- Output current:** 1A AC/DC, max.
- Switch voltage drop:** 1VAC/VDC at 1A, max.
- Time delay:** adjustable from 0.1 second to 1023 minutes in 5 ranges, each range with a 1-to-1023 ratio
- Repeatability:** 0.1% or 20mS whichever is greater, typ.
- Time delay accuracy:** 0.5% of full scale, typ.

- Recycle time:** 250mS, typ.
- Temperature Ranges:** Storage:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
Operating:  $-25^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Mechanical:** 2.5" x 2.5" case, surface mount with one #8 or #10 screw, 0.25" QC terminals for input and output
- Protection:** Encapsulated circuitry, EFT protection

## OPTIONS SELECTION

**MC x 00337**

**Input Voltage**

- AC/DC High Side
- 1 120VAC
- 2 230VAC
- 3 24VAC
- 4 24VDC
- 7 12VDC
- DC Low Side
- 4 24VDC
- 7 12VDC

**S**

**Output**

- S 1 amp Solid state

**c**

**Cycle Option**

- 1 On Time First
- 2 Off Time First

**o**

**On Time Delay**

- 1 0.1 to 102.3 sec
- 2 1 to 1023 sec
- 3 10 to 10230 sec
- 4 0.1 to 102.3 min
- 5 1 to 1023 min

**f**

**Off Time Delay**

- 1 0.1 to 102.3 sec
- 2 1 to 1023 sec
- 3 10 to 10230 sec
- 4 0.1 to 102.3 min
- 5 1 to 1023 min

**s**

**Output Switch**

- H High side
- L Low side (DC only)

EXAMPLES of MC337 build numbers

**MC700337S122L**

Input/output 12VDC, Solid state output, On time first, On time range 1 to 1023 sec, Off time range 1 to 1023 sec, Low side switch

**MC100337S112H**

Input/output 120VAC, Solid state output, On time first, On time range 0.1 to 102.3sec, Off time range 1 to 1023sec, High side switch

*Additional time delays and input voltage / output current options available upon request*