Timing Mode: MULTIFUNCTION Category: TIMER WITH RELAY

Series: MC453

CUBE RELAY, MULTIFUNCTION



PELCO COMPONENT TECHNOLOGIES • 855 227 3526



MC453 Timers

MC453 series are multifunction timers with dipswitch adjustments and relay output.

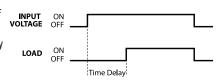
Offering five timing modes in a single unit and time delay settings from 0.1 second to 1023 minutes, the MC453 series is a cost-effective solution for myriad applications.

Set to select Delay on Make, Delay on Break, Single Shot, Interval, or Percentage timing.

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

Timing Modes

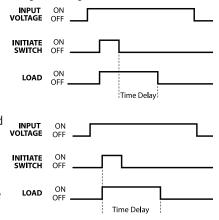
1 Delay on Make Application of input voltage to the timer starts the time delay. At the end of the time delay the load is energized. To reset, remove the input voltage from the timer.



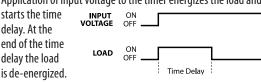
2 Delay on Break Input voltage is applied continuously. Upon closure of the initiate switch the load is energized and remains energized as long as the switch is closed. When

the initiate switch opens, the load remains energized and the time delay is started. At the end of the time delay the load is de-energized and the timer is ready for another cycle.

3.1 Single Shot Input voltage is applied continuously. Upon closure of the initiate switch the load is energized and the time delay is started. At the end of the time delay the load is de-energized and the timer is ready for another cycle. Maintained closure of the initiate switch will not affect the time delay period.



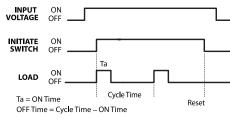
3.2 Interval Replace the initiate switch with a permanent electrical connection between terminals marked SW and (–). Application of input voltage to the timer energizes the load and



To reset, remove the input voltage from the timer.

4 Percentage Input voltage is applied continuously. Upon closure of the initiate switch the load is energized and the ON time delay is started. When ON time delay expires, the load is de-energized and the OFF time delay is started. Load cycles ON / OFF until initiate switch opens or input voltage is removed. Opening the initiate switch turns

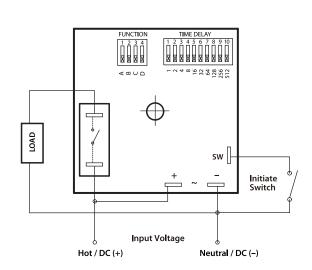
the load off and resets the timer.

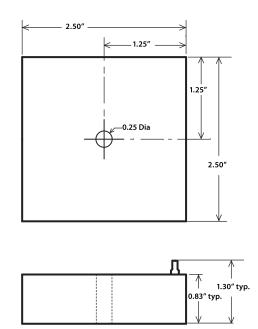


FEATURES

- Multifunction, accurate timing
- Binary dipswitch adjustable
- Wide selection of timing ranges
- Wide selection of AC and DC input voltages

- Totally encapsulated for protection from harsh environments
- 100% operational testing
- **-** 91,91
- RoHS compliant





SPECIFICATIONS

Input Voltage: 24, 120 or 230VAC, 50 / 60Hz, ±10%; 12 or 24VDC ±10%

Output current: 25A resistive, 1.5HP, max.

Time delay: Adjustable from 0.1 second to 1023 minutes, select Range via Function dipswitches C and D;

set Delay via cumulative Time Delay dipswitches

Timing function: Multiple timing modes available select via Function dipswitches A and B

Repeatability: 0.1% or 20mS, whichever is greater

Time delay accuracy: 2.5% or 50mS, whichever is greater

Recycle / Start-up time delay: 250mS, typ. **Temperature Ranges:** *Storage:* -40°C to +85°C

Operating: -25°C to +60°C

VOLTAGE SELECTION

Mode of	Series	Part	Input
Operation		Number	Voltage
Multi- function and Resettable	MC453	MC1004531J MC2004531J MC3004531J MC7004531J MC4004531J	120VAC 230VAC 24VAC 12VDC 24VDC

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, MOV transient protection

SETTINGS

- 2. Configure Time Range settings via Function dipswitches C and D
 - a. Time range selection for DOM, DOB, SS/I

OR

b. Time range selection for Percentage

Dipswitcl	h Function
АВ	Timing Mode
0 0 0 1 1 0	Delay on Make Delay on Break Single Shot / Interval
1 1	Percentage
C D	Time Range
0 0 0 1 1 0 1 1	0.1s-102.3s 1s-1023s 10s-10230s 1m-1023m
C D	ON Time / Cycle Time
0 0 0 1 1 0 1 1	0.1s—99.9s/100s 1s—999s/1000s 10s—9990s/10000s 1m—999m/1000m

3. Combine Time Delay dipswitches to achieve desired time delay

For Percentage function, ON time selection higher than max ON time is limited to max ON time.

