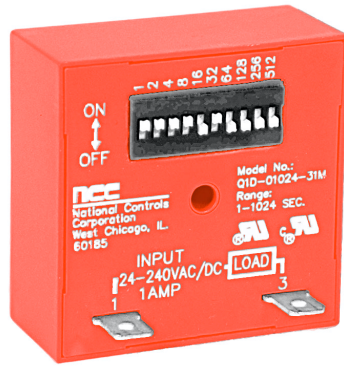


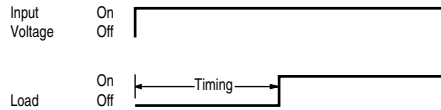
**Features**

- File #E65038
- Time Delay From 1 to 1023 Seconds in 1 second increments
- Universal Input Voltage 24 - 240 VAC/DC
- Solid-State Digital Timing
- 100% Life Tested
- Low Cost
- Compact Size
- Superior Transient Protection
- Flame-Retardant and Solvent-Resistant Polyester Thermoplastic Housing
- Made in U.S.A.

1



**Logic Function Diagram:**



# Solid-State Cube Timers

## Delay on Make (Series Load)

### Q1D Series

Allows user to accurately set delay times up to 1023 seconds without time consuming trial and error adjustments.

**Operating Logic:** Upon application of input voltage, the delay starts. At the end of the time delay, the load is energized. Reset is accomplished by removing input voltage. Set the delay time by switching the appropriate combination of time values to the "ON" position.

*Note: The load may be located on either side of the line*

**Specifications**

**Time Delay Adjustment:** 10 Position DIP switch.  
**Range:** 1 to 1023 seconds in one second increments. Zero time setting is undefined.  
**Repeatability:** ± 0.5% (0.25% typ) at constant temperature.  
**Accuracy:** ± 10% of set time +0.25 second.

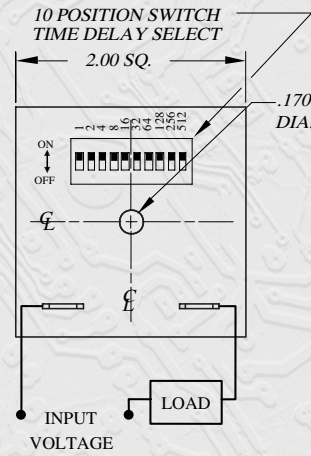
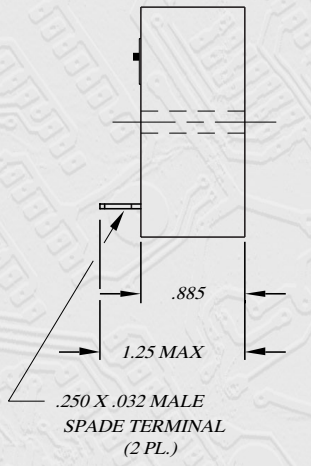
**Input Operating Voltage:** 24 to 240 VAC/DC ±10% (On DC models, unfiltered supply voltage must be full-wave rectified)  
**Frequency:** 50/60 Hz

**Output Type:** Solid-state, normally open series load  
**Rating:** 1 amp. steady state maximum  
**Life:** 100,000,000 operations

**Protection Transient Voltage:** 30 Joule Metal oxide varistor  
**Dielectric Breakdown:** 3000 VAC, RMS, terminals to mounting  
**Insulation Resistance:** 100 megohms minimum between terminals and case

**Mechanical Termination:** .25" x .032" male fast-on terminals  
**Mounting:** Surface mount with one #8 screw

**Environmental Storage Temperature:** -40°C to 85°C  
**Operating Temperature:** -40°C to 65°C  
**Humidity:** 95% relative



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Switch Setting Example:



Time Selected= 55 sec.

**Ordering Information**

Time Range	24 to 240 VAC/DC ± 10%
1 - 1023 Seconds	Q1D-01024-31M
Reset: During Timing	125 mS
Reset: After Time Out	10 mS
Min. Load	10 mA or 1 VA whichever is greater
Max. Leakage Current	2 mA
Voltage Drop @ 1A	3.3 V Max.
Power Consumption	0.25 VA Max.
During Timing	3.3 VA
After Time Out	20 Amp
Peak One Cycle Surge	30j. MOV
Protection	