



# TIMING MODULE

COOL DOWN TIMER

ENCAPSULATED

ONE AMPERE LOAD RATING

## Series 602H - OFF DELAY

FULLY SOLID STATE

CMOS DIGITAL CIRCUITRY

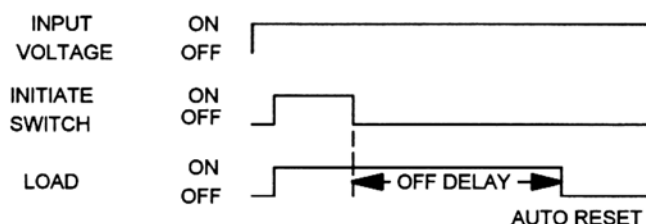
**UL** **CSA**  
E75633 LR46938

- Life Expectancy –unlimited
- Environment Protected
- Tamper Proof
- No False Operate
- Small Size – 2"x 2" x 53/64"
- Lightweight – approximately 2.5 oz.
- Rugged

Input power is applied continuously. A normally open initiate switch closure causes the solid state load switch to turn ON, energizing the load. This condition is maintained for as long as the initiate switch is closed. Opening the initiate switch starts the preset delay period. At the end of the preset delay period the solid state load switch turns OFF, de-energizing the load. A new cycle of operation can then be started via the initiate switch. Should the initiate switch be re-closed during the preset delay period, timing will stop, but the load will remain energized. When the initiate switch is re-opened, the preset delay period will be re-triggered. When the delay has reached time out the load will be de-energized, and the timer reset. This timer is commonly referred to as the "COOL DOWN TIMER".

Control the timing of valves, SFHP motors, lamps, relays, magnetic line starters, and actuators rated less than 1 ampere (10 amps inrush). CMOS digital circuitry, with solid state output switching. P/C boards and internal components are encapsulated in a flame retardant molded housing, fitted with quick connect wiring terminals. Available in all standard voltages and frequencies. Fixed or adjustable timing from .1 seconds to 24 hours.

### TIMING DIAGRAM



### SPECIFICATIONS

1. Repeat Accuracy:  $\pm 0.1\%$  or 16 ms. Whichever is greater
2. Combined Effect of Temperature and Voltage upon Repeat Accuracy:  $\pm 1\%$
3. Reset Time: 150 ms.
4. Operating Voltage Tolerance:  $\pm 20\%$
5. Load Current: Steady State – 8 ma. Min., 1 Ampere Max.
6. Voltage Drop: 1.5V Typical at 1 Ampere
7. Leakage Current: 5 ma.
8. Dielectric Strength: 1500 VRMS
9. Insulation Resistance: 100 Megohms Min.
10. Input Transient Protection: 3000V 120V UNITS, 6000V 240V units
11. Temperature Ambients: Operating -40°C to +70°C Storage -55°C to +70°C
12. Humidity-Operating: 95% Relative
13. Linearity(Option A or D):  $\pm 5\%$  Minimum from 10% to 90% of range
14. Timing Tolerance:  $\pm 9\%$  + Tolerance of Rt Std.,  $\pm 5\%$  Special (Fixed)

### HOW TO ORDER 602H – (T) (V) (P)

SERIES	(T) = TIME RANGE	(V)=VOLTAGE	(P) = OPTIONS
602H	P = 0.1 - 5 SEC. 1 = 0.1 - 10 SEC. L = 0.2 - 20 SEC. J = 0.3 - 30 SEC. M = 0.6 - 60 SEC. 2 = 1 - 100 SEC. K = 1.2 - 120 SEC. F = 2 - 180 SEC. E = 3 - 300 SEC. 3 = 10 - 1000 SEC. 4 = 0.1 - 10 MIN. G = 0.3 - 30 MIN. H = 0.6 - 60 MIN. 5 = 1 - 100 MIN. V = 3 - 300 MIN. 6 = 10 - 1000 MIN. D = 1 - 24 HRS.	1 = 12VDC 2 = 24VDC 3 = 48VDC 4 = 24VAC 5 = 120VAC 6 = 240VAC	O - CUSTOMER SUPPLIES OWN POTENTIOMETER OR RESISTOR A - POTENTIOMETER SUPPLIED AS LOOSE PART *B - EXTERNALLY INSTALLED RESISTOR *C - FACTORY FIXED INTERNAL D - TRIMMER POTENTIOMETER INSTALLED ON TERMINALS R - INTERNAL POTENTIOMETER WITH THRU SHAFT S - INTERNAL POTENTIOMETER WITH SCREWDRIVER SLOT  <div style="border: 1px solid black; padding: 5px; text-align: center;"> <i>* For Fixed Time Specify The Value In Seconds, Minutes, Or Hours</i> </div>

**MADE IN USA**

**EXAMPLE P/N: 602H-35C/240S** This is an OFF DELAY 1A Rated Solid State Timer with a 240 second DELAY and an INPUT VOLTAGE of 120 VAC. The DELAY is FACTORY FIXED INTERNAL calibration.



American Control Products / Precision Timer  
a division of Prime Technology  
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### TECHNICAL BULLETIN

### SOLID STATE TIMING MODULE

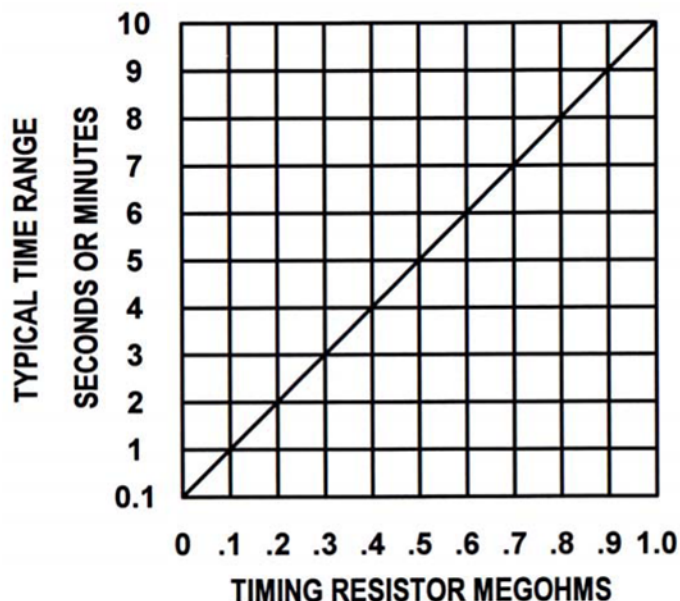
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**602H**

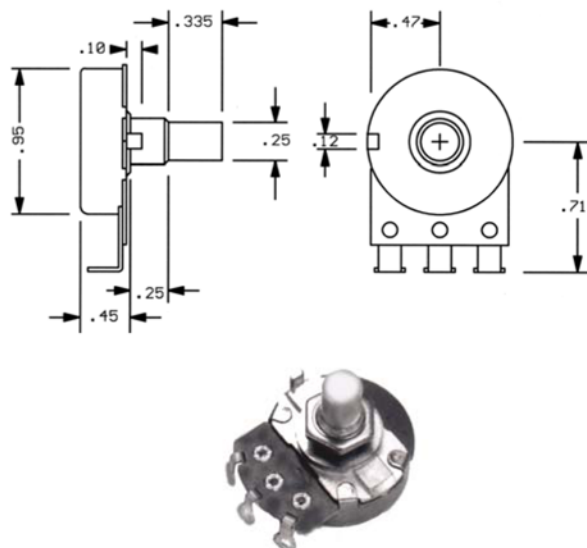
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## CALIBRATION RESISTANCE VS TIME

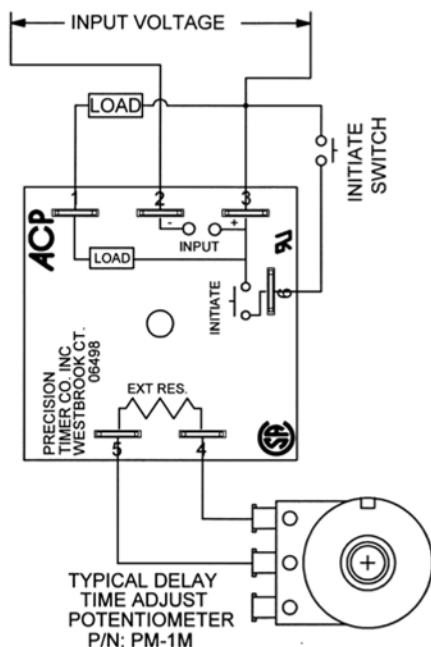


## ACCESSORIES – AVAILABLE FROM STOCK

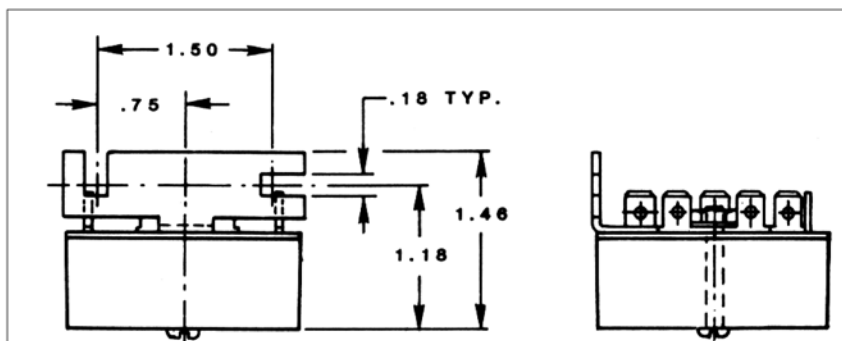
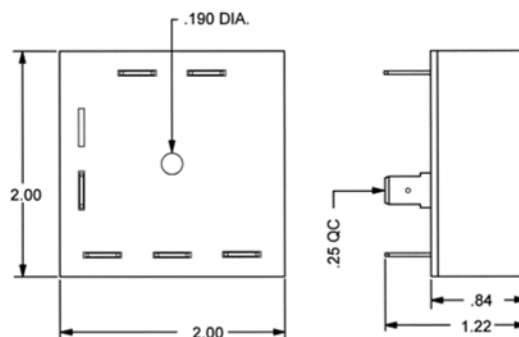
ORDER P/N: PM – 1M 1 MEGOHM  $\pm 20\%$   
PM – 100K 100 KOHM  $\pm 20\%$



## TYPICAL WIRING



## OUTLINE DRAWING



Order bracket mount model as: 602HBM – (T) (V) (P)

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