

TIMING MODULE

UL **SP**
E75633 LR46938

FULLY SOLID STATE **ENCAPSULATED**
1/2 AMPERE LOAD RATING

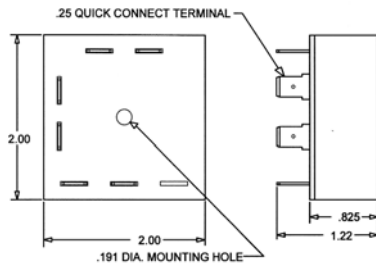
Series 6096 - DUAL OUTPUT SEQUENTIAL RECYCLE CMOS DIGITAL CIRCUITRY

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

Application of power simultaneously initiates timing and turns LOAD 1 ON. This load remains On for the preset T1 ON time period after which it turns OFF for the preset TA off time period. When the TA time has elapsed the LOAD 2 turns On and immediately starts ON time period T2. After the T2 time has elapsed the load turns OFF for the preset TB off time period. The sequence of ON/OFF cycling continues until power is removed. Removal of power at any point in the cycle will cause reset to T = To. The unit is available with the OFF time first, see the TIMING DIAGRAM and the table below.

Control the timing of valves, SFHP motors, lamps, relays, magnetic line starters, and actuators rated less than 1/2 ampere (5 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.

OUTLINE DRAWING



SPECIFICATIONS

1. Repeat Accuracy: $\pm 0.1\%$ or 16 ms. Whichever is greater
2. Combined Effect of Temperature and Voltage upon Repeat Accuracy: 1%
3. Reset Time: 150 ms.
4. Operating Voltage Tolerance: $\pm 20\%$
5. Load Current: Steady State – 15 ma. Min., 1 Ampere Max., 10 A Inrush
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

6096 – (T1) (TA) (TB) (V) / (P)

6096R (T1) (TA) (TB) (V) / (P)

SEQUENCE A: TA + TB \leq 8T1				(V)=VOLTAGE	OPTIONS (P1) = ON TIME, (P2) = OFF TIME
SERIES	(T1) = ON TIME	(TA) = OFF TIME	(TB) = OFF TIME		
6096 LOAD 1 ON FIRST	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.	A = 0 B = T1 C = 2T1 D = 3T1 E = 4T1 F = 5T1 G = 6T1 H = 7T1 J = 8T1	A = 0 B = T1 C = 2T1 D = 3T1 E = 4T1 F = 5T1 G = 6T1 H = 7T1 J = 8T1	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
	6096R LOAD 1 OFF FIRST	5 = 1 - 100 MIN. V = 3 - 300 MIN. 6 = 10 - 1000 MIN. D = 1 - 24 HRS.			
SEQUENCE B: TA + TB \leq T1					
	(T1) = ON TIME	(TA) = OFF TIME	(TB) = OFF TIME		
	P = Not Available. 1 = Not Available 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.	K = 0 L = 1/8T1 M = 1/4T1 N = 3/8T1 P = 1/2T1 Q = 5/8T1 R = 3/4T1 S = 7/8T1 J = T1	K = 0 L = 1/8T1 M = 1/4T1 N = 3/8T1 P = 1/2T1 Q = 5/8T1 R = 3/4T1 S = 7/8T1 J = T1		
* For Fixed Time Specify The Value In Seconds, Minutes, Or Hours					
EXAMPLE: P/N 6096R4LR5/D is a DUAL OUTPUT SEQUENTIAL RECYCLE timer with the TA OFF time of 1/8T1 first followed by an ON time T1 of .1-10 minute adjustable, followed by an OFF time TB of 1/8 T1. The input voltage is 120VAC. A trimmer potentiometer is installed on the timing terminals.					
OPERATIONAL CONDITIONS T1 IS ALWAYS EQUAL TO T2					
SEQUENCE A 0 < TA < 8T1 TA + TB < 8T1 INCREMENT T1			SEQUENCE B 0 < TA < T1 TA + TB < T1 INCREMENT 1/8T1		

MADE IN USA

AMERICAN CONTROL PRODUCTS
A DIV. OF PRECISION TIMER CO., INC.
47 WESTBROOK INDUSTRIAL PARK ROAD
WESTBROOK, CT. 06498

PHONE: (860)399-6253
EMAIL: info@precisiontimer.com

FAX: (860)399-5619
Web Site: precisiontimer.com

TECHNICAL BULLETIN

SOLID STATE TIMING MODULE

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6096

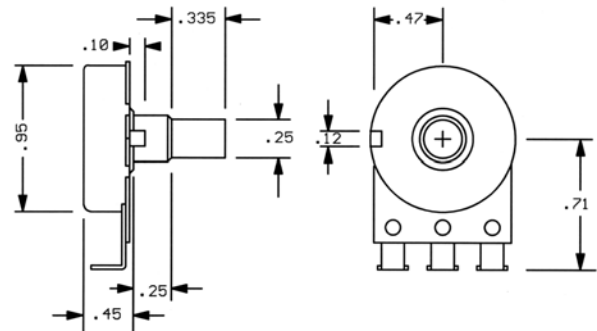
REV
B

CALIBRATION RESISTANCE VS TIME

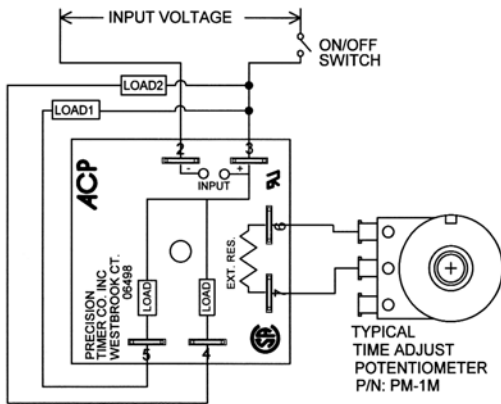


ACCESSORIES – AVAILABLE FROM STOCK

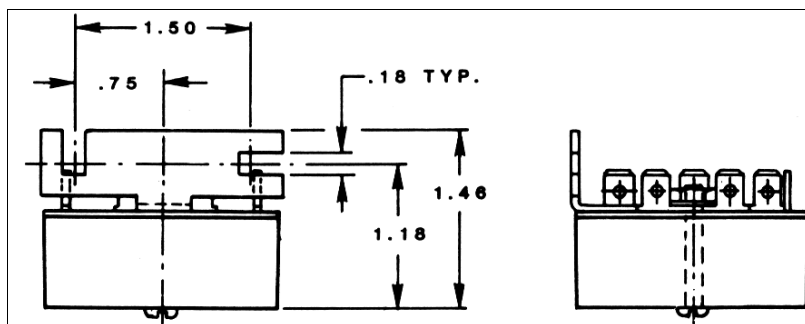
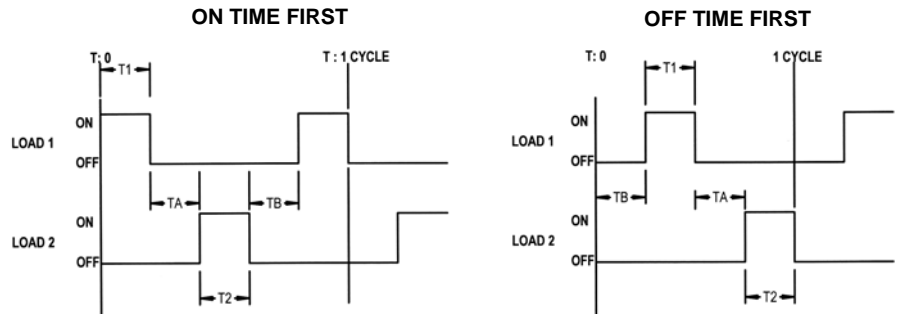
ORDER P/N: **PM – 1M 1 MEGOHM ± 20%**
PM – 100K 100 KOHM ± 20%



TYPICAL WIRING



TIMING DIAGRAM



Order bracket mount model as: **6096BM – (T) (V) / (P)**

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