

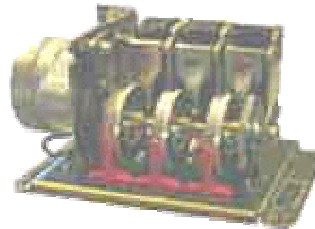
CM, MC & MCE

PROGRAMMABLE TIMERS

Industrial Timer Company
 30 Industrial Park Road
 Centerbrook, CT 06409
 800-394-7130
www.industrialtimercompany.com



CM Series Timer



MC Series Timer

DESCRIPTION

These recycling timers repeat a continuous, adjustable on/off electrical cycle. They feature a heavy-duty synchronous motor mechanically connected to the camshaft through a unique gear and rack arrangement that allows 50 different speeds from each of the 12 available motor speeds. All load switches are single pole, double throw. The CM model is single switch, while the MC series is available with 2 to 20 cams and switches. The MCE offers the same features as the MC plus a shaft extension on the bracket end. The adjustable split cams are calibrated in percentage for quick, accurate adjustment. All units are designed for base mounting and units with 9 or more switches are supplied with a heavy gauge aluminum base for added strength. Certain combinations of multiple switches and fast time cycles may require a special high torque motor.

APPLICATION

These heavy-duty timers are designed for applications requiring high reliability, flexibility and easy adjustment. Typical applications include: programming laboratory test, flashing light control, air dryer control, and machine sequence control. The shaft extension on the MCE can be used for progress indication or as an auxiliary drive for a potentiometer, etc.

OPERATION

There is no operator involvement in the operation of this device. When power is applied to the motor, it drives the cams that in turn drive the load switches to follow the preset program.

SPECIFICATIONS

Load Switch Contacts	10 amp non-inductive SPDT
Wiring	Screw terminals
Voltage	120V/60Hz standard. Consult factory for other voltages and frequencies.
Minimum Cam Notch	Approx. 2% of total time cycle
Shaft Extension (MCE)	$\frac{3}{16}$ " diam., 2" long approx.
Agency Approvals	UL, CSA

STANDARD MODELS

Model Number	Time Cycle	Model Number	Time Cycle
CM, MC, MCE 0	1 sec.	CM, MC, MCE 7	15 min.
CM, MC, MCE 1	6 sec.	CM, MC, MCE 8	30 min.
CM, MC, MCE 2	15 sec.	CM, MC, MCE 9	60 min.
CM, MC, MCE 3	30 sec.	CM, MC, MCE 10	3 hr.
CM, MC, MCE 4	60 sec.	CM, MC, MCE 11	5 hr.
CM, MC, MCE 5	3 min.	CM, MC, MCE 12	12 hr.
CM, MC, MCE 6	5 min.		

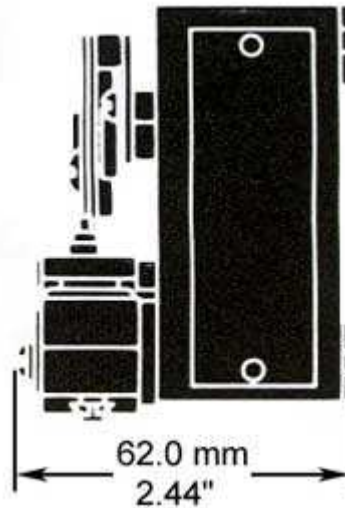
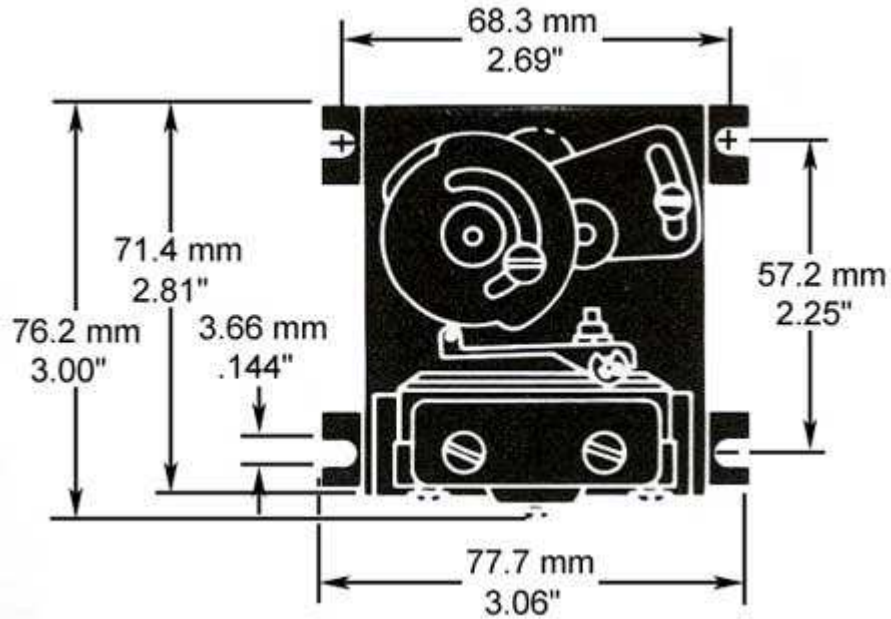
NOTE: Time cycles shown are with the C-12 (1:1 ratio) gear rack. For other speeds see gear rack chart.

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CM DIMENSIONS



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MC & MCE DIMENSIONS (see drawing below)

No. Switch	A	B	C	D	E	Height of Timer
2	4 ⁵ / ₁₆	3 ¹³ / ₁₆				2 ¹³ / ₁₆
3	5 ¹ / ₄	4 ³ / ₄				2 ¹³ / ₁₆
4	6 ³ / ₁₆	5 ¹¹ / ₁₆				2 ¹³ / ₁₆
5	7 ¹ / ₈	6 ⁵ / ₈				2 ¹³ / ₁₆
6	8 ¹ / ₁₆	7 ⁹ / ₁₆				2 ¹³ / ₁₆
7	9	8 ¹ / ₂				2 ¹³ / ₁₆
8	9 ¹⁵ / ₁₆	9 ⁷ / ₁₆				2 ¹³ / ₁₆
9	10 ⁷ / ₈	10 ³ / ₈	11 ⁵ / ₈	11 ¹ / ₄	5 ⁵ / ₈	3 ¹ / ₁₆
10	11 ¹³ / ₁₆	11 ¹⁵ / ₁₆	12 ⁹ / ₁₆	12 ³ / ₁₆	6 ³ / ₃₂	3 ¹ / ₁₆
11	12 ³ / ₄	12 ¹ / ₄	13 ¹ / ₂	13 ¹ / ₈	6 ⁹ / ₁₆	3 ¹ / ₁₆
12	13 ¹¹ / ₁₆	13 ³ / ₁₆	14 ⁷ / ₁₆	14 ¹ / ₁₆	7 ¹ / ₃₂	3 ¹ / ₁₆
13	14 ⁵ / ₈	14 ¹ / ₈	15 ³ / ₈	15	7 ¹ / ₂	3 ¹ / ₁₆
14	15 ⁹ / ₁₆	15 ¹ / ₁₆	16 ⁵ / ₁₆	16 ¹⁵ / ₁₆	7 ³¹ / ₃₂	3 ¹ / ₁₆
15	16 ¹ / ₂	16	17 ¹ / ₄	16 ⁷ / ₈	8 ⁷ / ₁₆	3 ¹ / ₁₆
16	7 ⁷ / ₁₆	16 ¹⁵ / ₁₆	18 ³ / ₁₆	17 ¹³ / ₁₆	8 ²⁹ / ₃₂	3 ¹ / ₁₆
17	18 ³ / ₈	17 ⁷ / ₈	19 ¹ / ₈	18 ³ / ₄	9 ³ / ₈	3 ¹ / ₁₆
18	19 ⁵ / ₁₆	18 ¹³ / ₁₆	20 ¹ / ₁₆	19 ¹¹ / ₁₆	9 ²⁷ / ₃₂	3 ¹ / ₁₆
19	20 ¹ / ₄	19 ³ / ₄	21	20 ⁵ / ₈	10 ⁵ / ₁₆	3 ¹ / ₁₆
20	21 ³ / ₁₆	20 ¹¹ / ₁₆	21 ¹⁵ / ₁₆	21 ⁹ / ₁₆	10 ²⁵ / ₃₂	3 ¹ / ₁₆

NOTE: High torque motor adds 1 ¹/₈ inches to height of timer
 Dimensions C-D & E are used for aluminum base.

