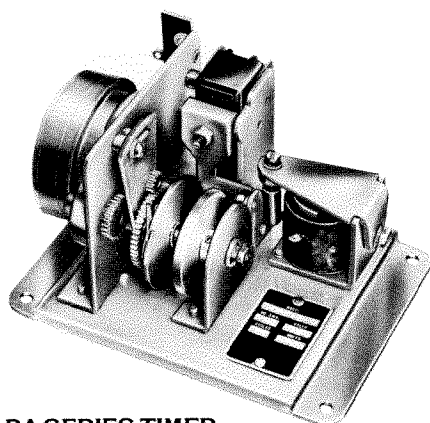
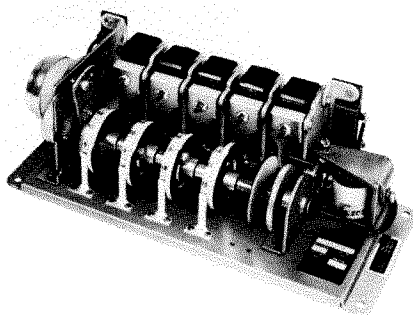


# RA and RC

## SINGLE-CYCLE PROGRAMMABLE TIMERS



RA SERIES TIMER



RC SERIES TIMER

### DESCRIPTION

These cam timers are designed to accept a pulse from an outside source and complete exactly one revolution following the pulse. A patented solenoid cam-and-motor-control-switch combination provides the single cycle action. This switch also serves as the load switch on the single switch RA series. The RC series features from 1 to 20 load cams and switches. All units feature a heavy duty synchronous motor mechanically connected to the cam shaft through a unique gear and rack arrangement which allows 50 different speeds from each of the 12 available motor speeds. The adjustable split cams are calibrated in percentage for quick, accurate adjustment. All units are designed for base mounting and RC units with 8 or more independent load 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. See page 21 for details.

### APPLICATION

These heavy duty timers are designed for applications requiring high reliability, easy adjustability, and positive, single cycle action. Typical applications include: air dryer programming, grain dryer programming, and engine start-up programming.

### OPERATION

Prior to the initial operation of a program, it is necessary that the time for a single cycle be set by the selection of the model number and the installation of the correct gear rack and that the desired switching function be determined by adjusting the cams. Once this is done, the only operator involvement is to provide a momentary pulse to the start solenoid. The device then will automatically go through the cycle, returning to its home position.

### SPECIFICATIONS

Load Switch Contacts	10 amp non-inductive SPDT
Wiring	screw terminals
Voltage	120V/60 Hz standard. Consult factory for other voltages and frequencies.
Minimum Cam Notch	approx. 2% of total time cycle
Agency Approvals	UL, CSA

### RC DIMENSIONS (see drawing)

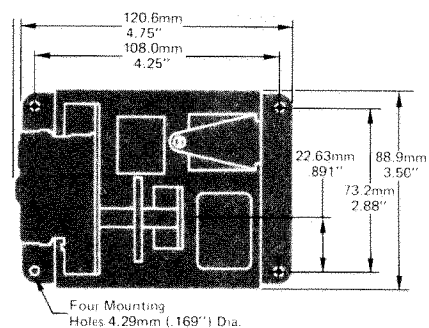
No. Switch	A	B	C	D	E	Height of Timer
1	5 <sup>11</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>16</sub>				2 <sup>13</sup> / <sub>16</sub>
2	6 <sup>5</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>				2 <sup>13</sup> / <sub>16</sub>
3	7 <sup>9</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>				2 <sup>13</sup> / <sub>16</sub>
4	8 <sup>1</sup> / <sub>2</sub>	8				2 <sup>13</sup> / <sub>16</sub>
5	9 <sup>7</sup> / <sub>16</sub>	8 <sup>15</sup> / <sub>16</sub>				2 <sup>13</sup> / <sub>16</sub>
6	10 <sup>3</sup> / <sub>8</sub>	9 <sup>7</sup> / <sub>8</sub>				2 <sup>13</sup> / <sub>16</sub>
7	11 <sup>1</sup> / <sub>16</sub>	10 <sup>13</sup> / <sub>16</sub>				2 <sup>13</sup> / <sub>16</sub>
8	12 <sup>1</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	13	12 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>
9	13 <sup>3</sup> / <sub>16</sub>	12 <sup>11</sup> / <sub>16</sub>	13 <sup>15</sup> / <sub>16</sub>	13 <sup>3</sup> / <sub>16</sub>	6 <sup>29</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>16</sub>
10	14 <sup>1</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>	14 <sup>7</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>16</sub>
11	15 <sup>1</sup> / <sub>16</sub>	14 <sup>9</sup> / <sub>16</sub>	15 <sup>13</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>16</sub>	7 <sup>23</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>16</sub>
12	16	15 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>
13	16 <sup>15</sup> / <sub>16</sub>	16 <sup>7</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	17 <sup>5</sup> / <sub>16</sub>	8 <sup>21</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>16</sub>
14	17 <sup>7</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>8</sub>	18 <sup>5</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>16</sub>
15	18 <sup>13</sup> / <sub>16</sub>	18 <sup>5</sup> / <sub>16</sub>	19 <sup>9</sup> / <sub>16</sub>	19 <sup>3</sup> / <sub>16</sub>	9 <sup>19</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>16</sub>
16	19 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>
17	20 <sup>11</sup> / <sub>16</sub>	20 <sup>3</sup> / <sub>16</sub>	21 <sup>7</sup> / <sub>16</sub>	21 <sup>1</sup> / <sub>16</sub>	10 <sup>17</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>16</sub>
18	21 <sup>5</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>8</sub>	22 <sup>3</sup> / <sub>8</sub>	22	11	3 <sup>1</sup> / <sub>16</sub>
19	22 <sup>9</sup> / <sub>16</sub>	22 <sup>1</sup> / <sub>16</sub>	23 <sup>5</sup> / <sub>16</sub>	22 <sup>5</sup> / <sub>16</sub>	11 <sup>15</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>16</sub>
20	23 <sup>1</sup> / <sub>2</sub>	23	24 <sup>1</sup> / <sub>4</sub>	23 <sup>7</sup> / <sub>8</sub>	11 <sup>15</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>

### STANDARD MODELS

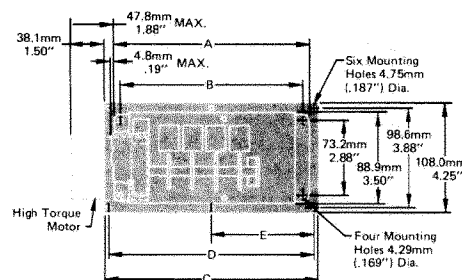
Model Number	Time Cycle	Model Number	Time Cycle
RA, RC 0	1 sec.	RA, RC 7	15 min.
RA, RC 1	6 sec.	RA, RC 8	30 min.
RA, RC 2	15 sec.	RA, RC 9	60 min.
RA, RC 3	30 sec.	RA, RC 10	3 hr.
RA, RC 4	60 sec.	RA, RC 11	5 hr.
RA, RC 5	3 min.	RA, RC 12	12 hr.
RA, RC 6	5 min.		

NOTE: Time cycles shown are with the C-12 (1:1 ratio) gear rack. For other speeds see page 21.

### RA DIMENSIONS



### RC DIMENSIONS



### RA AND RC WIRING

