INTRODUCTION

This compact timer emulates the traditional dial-set spring timers by using 12 LEDs in a circle to indicate the timer setting and timer progress. All On/Off control and time presetting is achieved via a single pushbutton. A buzzer indicates the time-out point. Applications include domestic and industrial process monitoring and control. The unit will automatically switch to a power-save mode, reducing the battery consumption to mere micro amps.

SET UP AND USE

Connect power source to the +3 V and G terminals (two AA batteries). The S1 switch is used for setting, starting, and stopping the timer.

1. Push the S1 switch – The LEDs will blink, indicating the circuit is in timer mode.
2. Push the S1 switch again – The LEDs will stay lit until the timer is set.
3. Push and hold S1 switch for about 3 seconds – the LEDs light up in sequence
4. Return to step 1.

MULTI-PURPOSE TIMER, 1-180 MINUTE CIRCUIT

RED +

POWER SOURCE
1.5 V x 2 (size AA)

BLACK -

Table 1: The position of time

LED Position	1	2	3	4	5	6	7	8	9	10	11	12	
Time (minutes)	1	2	3	4	5	10	15	20	25	30	45	60	Internal
	70	80	90	100	110	120	130	140	150	160	180	Light on	External

CIRCUIT DIAGRAM