

Light-sensitive Alarm Project

The circuit detects a *sudden* shadow falling on the light-sensor and sounds the bleeper when this happens. The circuit will not respond to gradual changes in brightness to avoid false alarms. The bleeper sounds for only a short time to prevent the battery running flat. Normal lighting can be used, but the circuit will work best if a beam of light is arranged to fall on the light-sensor. Breaking this beam will then cause the bleeper to sound. The light sensor is an LDR (light-dependant resistor), this has a low resistance in bright light and a high resistance in dim light.

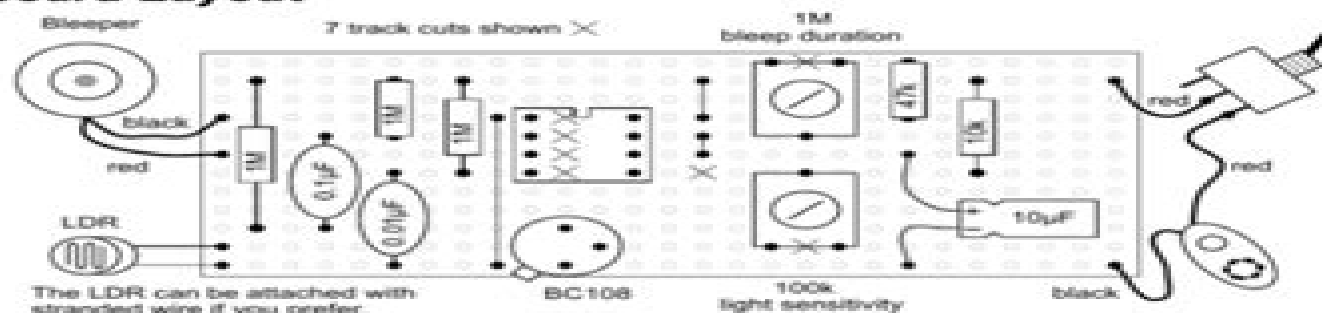
- The light-sensitivity of the circuit can be adjusted by varying the 100k preset.
- The length of bleep can be varied from 0.5 to 10 seconds using the 1M preset.

Using the 7555 low-power timer ensures that the circuit draws very little current (about 0.5mA) except for the short times when the bleeper is sounding (this uses about 7mA). If the circuit is switched on continuously an alkaline PP3 9V battery should last about a month, but for longer life (about 6 months) you can use a pack of 6 AA alkaline batteries.

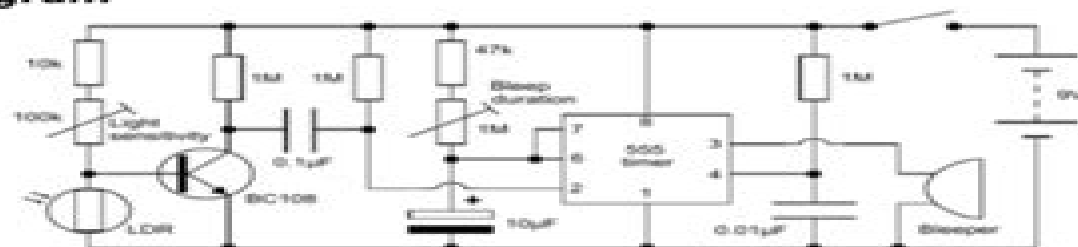
Parts Required

- resistors: 10k, 47k, 1M ×3
- presets: 100k, 1M
- capacitors: 0.01µF, 0.1µF, 10µF 25V radial
- transistor: BC108 (or equivalent)
- LDR (light-dependant resistor) type ORP12
- stripboard 12 rows × 25 holes
- 7555 low-power timer IC
- 8-pin DIL socket for IC
- bleeper 9-12V
- on/off switch
- battery clip for 9V PP3

Stripboard Layout



Circuit diagram



Light Sensitive Alarm Circuit

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Light Sensitive Alarm Circuit:

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