

# Simple Darkness Activated Alarm

## Myo Min

Most darkness activated alarms employ opamps and some logic ICs. Here, a less expensive approach is shown based on the eternal 555, this time in monostable multivibrator mode. Components R2 and C1 represent a one-second network. When the LDR (light dependent resistor) is in the dark, its resistance is high, pulling pin 2 of the 555 to ground. This triggers the monostable and the (active!) 6-volt piezo buzzer will sound. Preset P1 is adjusted depending on ambient light levels.

The circuit may be fitted on a wall in your home. Assuming P1 has been set for the

existing ambient light level, the shadow cast by anybody entering the room or hallway will trigger the alarm.

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