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Bat Eyes



(Battery not included)

Here is a nice little board that uses a PIC microcontroller to control a pair of red LED “eyes”. There are 2 modes of operation – a dim-on and dim-off mode with controllable rate and a realistic random blink. The eyes go off when a sensor on the main board is illuminated. Great for sticking around in bushes for Halloween!

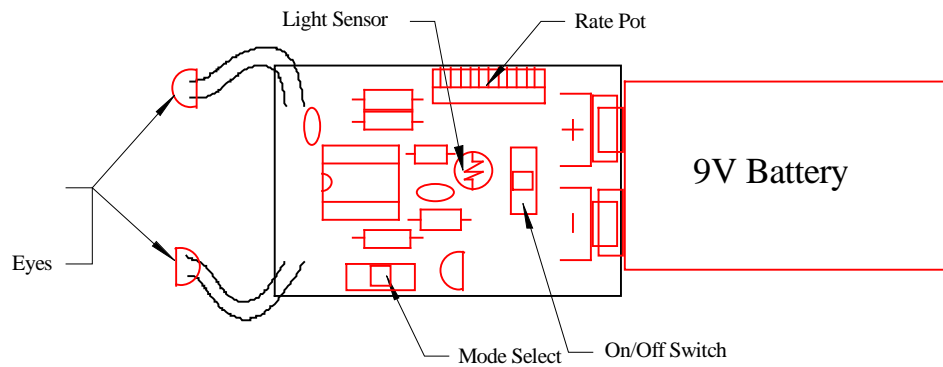
Details:

As mentioned above, this board controls a pair of blinking “eyes”. The eyes are red LEDs that are on 8” leads. There are 2 selectable modes of operation. The first one is a dim-on, dim-off mode where the LEDs gradually increase and decrease in brightness. There is an on-board thumbwheel pot that allows you to adjust the rate at which this occurs. The second mode of operation is more life-like. The eyes come on and then at random intervals, they blink – they shut off quickly and then dim back on – simulating an animals eyelid movements. Very realistic! There is a small slide switch that selects which mode you want. There is also a small light sensor on the board that shuts the eyes off when the ambient light reaches a certain level. This is useful if you have these outdoors – They will come on at dusk and go off at dawn. The board snaps directly on to a 9V battery. For longer service, you can use any power source 7.5 V or greater. Just attach a battery clip and attach it to the board. Watch your polarity!

For more eyes, check out my Cave Eyes. One board controls 7 pairs of eyes that blink randomly and independently of each other.

Board Layout:

Below is a diagram showing component placement (9V battery is not included).

**Specifications:**

- Input Power: 7.5 – 24 VDC
- Current Draw: < 20 mA
- Board Dimensions: 1.9 x 1.3 inches

Disclaimer:

These boards are designed for educational use only. In no circumstances should these circuit boards be used in critical situations where failure could mean injury or property damage.

Please check out the other circuit board designs that I offer at www.SimpleCircuitBoards.com. Here are just a few examples:

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- DC to DC Converters
- TTL-Driven Relay Boards – 1 Amp and 10 Amp
- Voltage Amplifier Board
- Water Level Monitors and Control Boards
- Motor Control Boards
- Programmable Relay boards
- Programmable Servo Controllers

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