

EVILUSIONS

Cave Eyes



Here is a nice little board that uses a PIC microcontroller to control 7 pairs of LED “eyes”. These eyes can be located far away from the controller and are connected via small gauge 2-conductor wire (user supplied). The eyes blink randomly and all go off when a sensor on the main board is illuminated.

(Shown with 2 pairs of eyes – 7 pairs included)

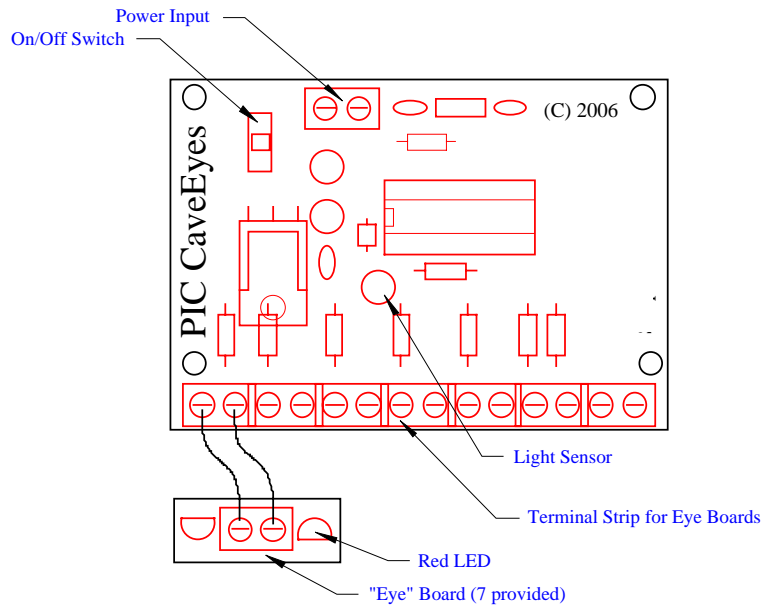
Details:

As mentioned above, this board controls 7 pairs of randomly blinking “eyes”. The eyes are red LEDs that are mounted on a small PC board (0.4” x 1”) along with a two-position terminal block. Each of the small eye boards is connected to the main board via small gauge 2-conductor wire (user supplied) and can be located at great distances from the main board. The main board has a light sensor on it that shuts off all the eyes when it is illuminated. When the illumination is removed, the eyes “wake up” randomly and then continue to blink randomly. The “blink” is designed to look life-like – they go off quickly and then dim back on. You could mount the small eye boards in rubber bats and hang them all around a room to simulate a cave. Or you can put the eyes in bushes outside – they will come on at dusk and go off at dawn (of course, you will have to make everything weather-proof).

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Board Layout:

Below is a diagram showing component placement.



Notes on Hookup:

The terminals for the eye boards are marked for positive and negative. Make sure that you observe the polarity when you connect them to the main board.

Specifications:

- Input Power: 7.5 – 24 VDC
- Current Draw: approx. 50 mA
- Board Dimensions: 3 x 2.1 inches (main board) 1 x 0.4 inches (eye boards)

Disclaimer:

In no circumstances should these circuit boards be used in critical situations where failure could mean injury, death or property damage.

Please check out our other circuit board designs at www.evilsions.com

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