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Sound Activated Relay



Here is a nice little board that allows you to control a 10A relay in response to sound from a non-amplified sound source (computer, CD player, or my Digital Sound Recorder board). It has a LED that a visual indication of the sound volume. Also, there is a potentiometer for sensitivity adjustment. It operates on 12 VDC.

Details:

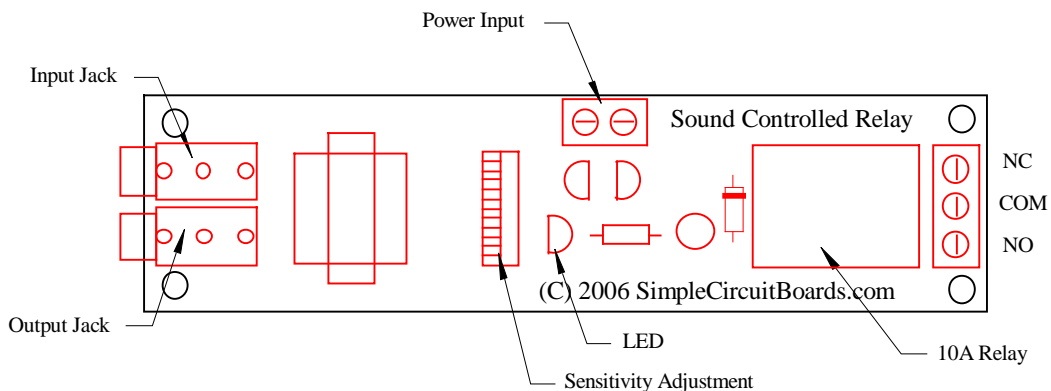
This board was designed to operate with my Digital Sound Recorder board but should work equally well with any non-amplified sound source (portable CD player, computer sound card, etc.).

This board accepts audio input from any non-amplified sound source and when the volume reaches a certain level, it actuates a 10A relay. This relay can be used to switch another device (light bulb, etc.) on and off in sync with the volume of the input. There is an on-board potentiometer that is used to adjust the sensitivity to the incoming sound. The board has two 1/8" phono jacks – one for input and one for output to amplified speakers. An example of it's use would be to simulate lightning by flashing a bright light to the sound of thunder.

This board requires 12V DC for operation.

Board Layout:

Below is a diagram showing component placement.



Specifications:

- Input Power: 12 VDC
- Current Draw: Less than 60 mA
- Board Dimensions: 1.2 x 4.5 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:

- Thermocouple Amplifiers
- 8-Bit Digital to Analog Converter
- DC to DC Converters
- TTL-Driven Relay Boards – 1 Amp and 10 Amp
- TTL-Driven Latching Relay Board
- Voltage Amplifier Board
- Water Level Monitors
- Water Level Control Boards
- Motor Control Boards
- Programmable Relays
- Programmable Servos

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For more information, contact us at:

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