EVILUSIONS

Sound Activated Relay

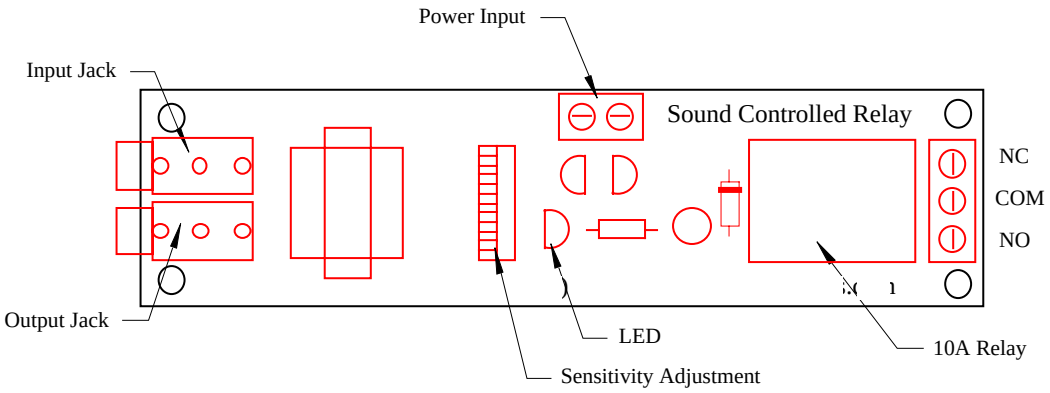
The Evilusions Sound Activated Relay board allows you to control a 10A relay in response to sound from a non-amplified sound source (computer, CD player, mp3 player or our Digital Sound Recorder board). It has an LED that acts as a visual indication of the sound volume. Also, there is a potentiometer for sensitivity adjustment. It operates on 12 VDC.

Details:
This board was designed to operate with our Digital Sound Recorder board but should work equally well with any non-amplified sound source (portable CD player, mp3 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.

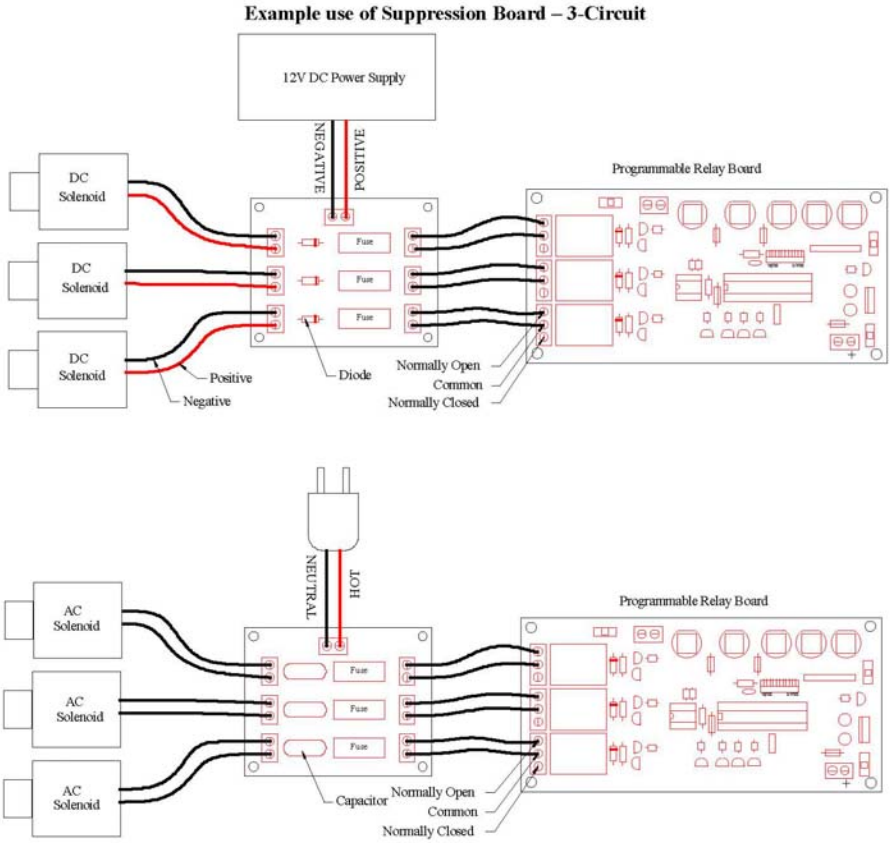
Board Layout:
Below is a diagram showing component placement.



Specifications:

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

Anytime you use a relay to control a solenoid valve, you need to suppress the kick back voltage to protect your relay board. We recommend using one of our suppression boards as shown in the diagram below.



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.evilusions.com
For more information, e-mail Brian at:
Gadget@evilusions.com