Relay Board 4 Channel 5v

Description:

Relays are the Hulks (tm -DC Comics) of the electronics world. Often dumb and simple, but DANG they can control lots of power. These are ideal in situations where you need to comfortably control AC or DC power levels. Transistors and FETs can do the same job, but often not with the convenience and reliability of a good old relay.

Use this 4 Channel Relay Module board to interface any Microcontroller with Electrical Appliances/Loads. Can also be used in driving high power motors.4-channel relay output modules, relay output contacts 250A 10A. Input IN1, IN2, IN3, IN4, the signal line LOW effective. VCC, GND power input, can relay a separate power supply relay power input of JD-VCC.

Product Summary:

- Module can be controlled directly by Microcontroller (Raspberry Pi, Arduino, 8051, AVR, PIC, DSP, ARM, ARM, MSP430, TTL logic)
- Easy to install and fix
- Optically Isolated relays to protect your microcontroller from damage if the equipment being controlled fails
- Four screw holes, hole diameter 3.1mm
- Relay status indicator light, release status LED is off
- Relay Maximum output: DC 30V/10A, AC 250V/10A
- Size: 75mm (l) x 55mm (b) x 19.3mm (h)
- Weight: 58 gm
- PCB Color: Blue

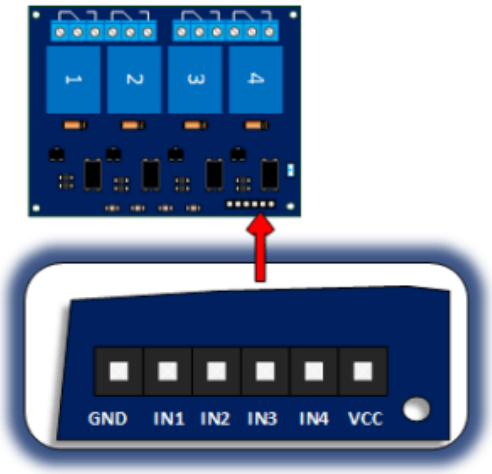
Application:

- Raspberry Pi, Arduino, 8051, AVR, PIC, DSP, ARM, ARM, MSP430, TTL logic can drive the module
- PLC control
- Smart home control
- Industrial sector

Relay Module Inputs

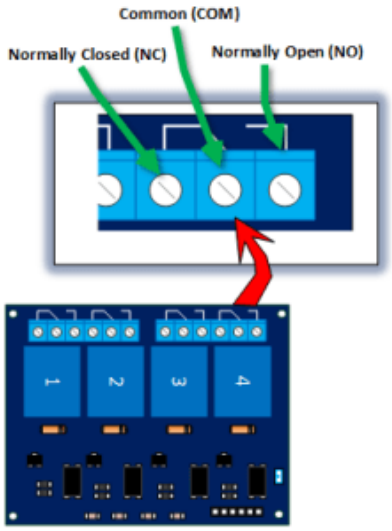
The module is supplied with power via the pin labelled VCC and ground via the pin labelled GND.

The relays are energized with low inputs to the IN1, IN2, IN3 and IN4 inputs



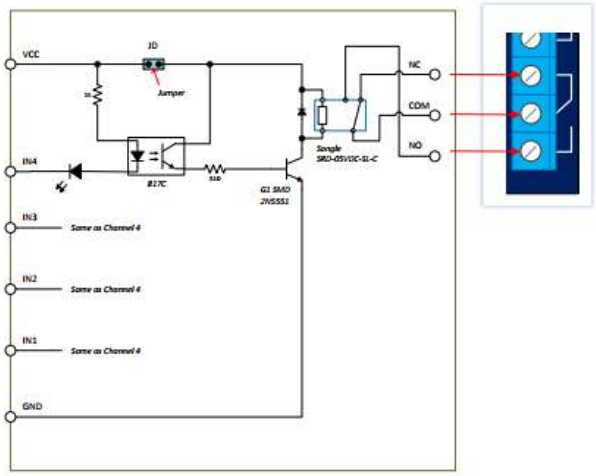
Relay Module Outputs.

There are four relays that each provides dry contact outputs. That is to say that each relay provides a common (COM) , normally open (NO) and a normally closed (NC) terminal.



Module Schematic

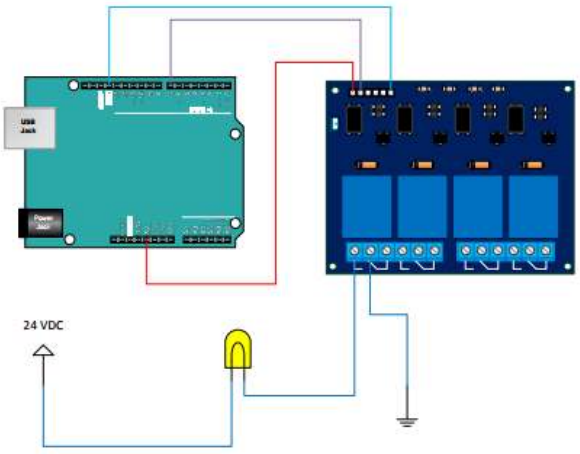
Fundamentally this is four separate circuits on one board. Other than sharing VCC and ground, the channels are isolated from one another. See the schematic below:



5V Arduino Four Channel Relay Schematic

Typical Connection to an Arduino

The drawing below shows the typical connections to an Arduino. In the example shown, a low output on D7 will cause the light bulb to turn on.



5V Four Channel Relay Arduino Connections