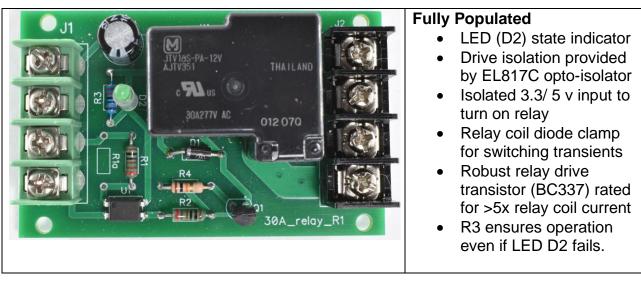
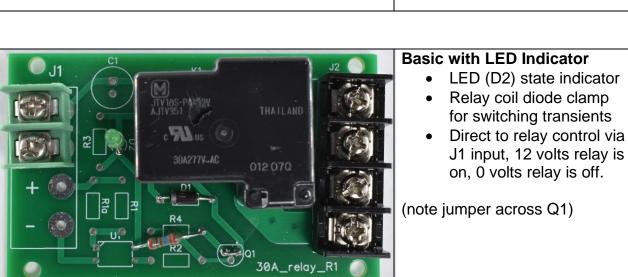
Relay Module, 30Amp, for Arduino etc

This Relay Module provides convenient low voltage/ low current input control and screw-terminal output power connections. The relay is the powerful, but surprisingly quiet, 30 ampere Panasonic JTV1AS-PA-12. It can be configured in many different ways, 3 of which are shown below, depending on the desired end use:

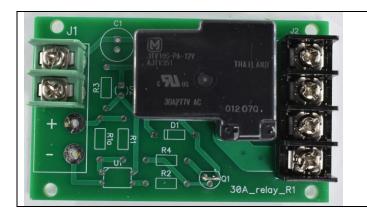
Features:

- Good quality screw terminal barrier block connections
- 2 ounce copper pcb tracks for the high current output connections
- Double screw terminals provided for the high current output connections
- Isolation from coil to contacts rated at 2500v RMS
- Compact size overall, 4 mounting screw holes





Some Configurations (dependent on populated parts):

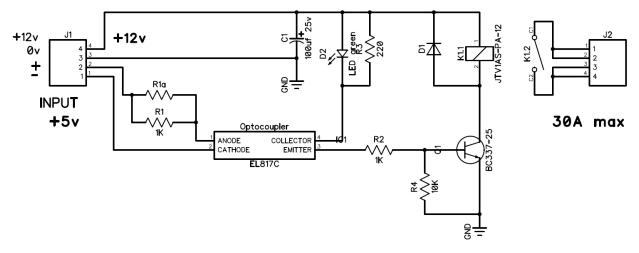


Basic

• Direct to relay control via J1 input, 12 volts relay is on, 0 volts relay is off.

(note jumper across Q1)

Example Schematic



Relay Module Parts List	
Ref	Part Name
C1	Electrolytic Cap, 100uf/25v
D1	Diode, 1N4004
D2	LED, green, 3mm
IC1	Optocoupler, EL817C
J1	Screw Term. Strip, 2 or 4pin, 7.62 mm/0.300"
J2	Screw Term. Strip, 4pin, 20amp, 8.25 mm/0.325"
K1	Relay, JTV1AS-PA-12, 30 amp spst
Q1	Transistor, BC337-25
R1	Resistor, CF, 1/4w 5%, 1K Ω
R1a *	Resistor, CF, 1/4w 5%, 470 Ω
R2	Resistor, CF, 1/4w 5%, 1K Ω
R3	Resistor, CF, 1/4w 5%, 220 Ω
R4	Resistor, CF, 1/4w 5%, 10K Ω
РСВ	30A_relay
* used only for 3V logic input	

January 31, 2023

VA3DDN