

Sparkfun Beefcake Relay Control

Flyback Arrestor --

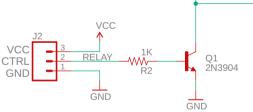
Place D1 with a normal diode such as the 1N4148 for all cases.

Use a zener (such as the 1N4739) at D2 to allow a certain flyback voltage. Keep Vcc + Vzener under 30 volts (Breakdown voltage of the NPN with à 10v margin)

The zener is not critical for protection of the circuit, but helps allow the contacts to open faster. It can be bypassed by shorting JP1.

VCC requirements: 4-6V 150mA

CTRL requirements: Relay on above 2.6V Relay off below 0.9V 5mA

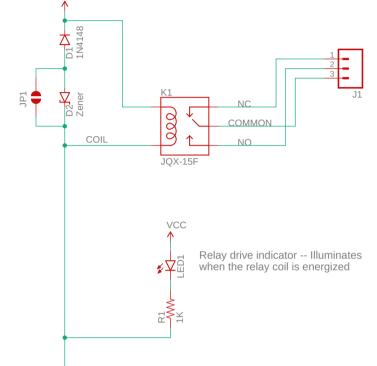


VCC

CAUTION!

To maintiain 250VAC/VDC galvanic isolation, use non-conductive standoffs and 4-40 HW with a head diameter no greater than 0.21 inch.

If metal standoffs are required, or mounting to a conductive chassis, standoff diameter must be less than 0.21 inch.







Released under the Creative Commons Attribution Share-Alike 4.0 License https://creativecommons.org/licenses/by-sa/4.0/	0	000
TITLE: RemoteControl		
Design by: N. Seidle, M Taylor, SparkFun Electronics		REV: v20
Date: 25/4/21 1:12 PM	Sheet: 2	2/2