Amplifier remote control Connects to beefcake relay or any other 22 D9 D8 D7 D6 D10 D11 220V-6V D12 D13 D5 C1 220uF A1 A2 A3 VCC RST D4 D3 D2 GND2 RST1 RX1 RATIO=N2/N1 open hardware Released under the Creative Commons Attribution Share-Alike 4.0 License 0000 https://creativecommons.org/licenses/by-sa/4.0/ TITLE: RemoteControl REV: Design by: nkostop v20 Date: 18/4/21 2:09 AM Sheet: 1/2

Sparkfun Beefcake Relay Control

Flyback Arrestor --

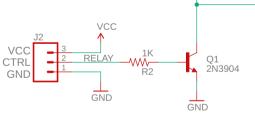
Place D1 with a normal diode such as the 1N4148 for all cases.

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



900

JQX-15F

VCC

COMMON

VCC

COIL



Relay drive indicator -- Illuminates when the relay coil is energized



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.

Attribution Share-Alike 4.0 License https://creativecommons.org/licenses/by-sa/4.0/

Released under the Creative Commons

TITLE: RemoteControl

Design by: N. Seidle, M Taylor, SparkFun Electronics REV: v20

0000

Date: 18/4/21 2:09 AM

Sheet: 2/2