



## C8 - A/C RELAY BOARD Rev2

### Overview

This card is to be used as a multipurpose switch for controlling your AC devices. It's very basic design allows you to connect it in many ways, giving you the options you need.

### Features

- ***Opto-Isolated Input.***

Isolates input connections to protect your computer from shorts circuits. An opto-isolator is an integrated circuit that transmits the signal through an encapsulated LED and photo-transistor, when the signal is present, the LED lights, and the photo-transistor captures it, and relays the signal. That way your computer's electronics is completely isolated from your circuitry.

- ***All TTL +5VDC or +3.3VDC Signals.***

Interface directly with parallel port interface products and other cnc4pc.com cards. 5VDC (TTL) signals are very common among automation devices..

- ***Works directly with popular CNC hardware and software.***

Such as Geckodrive, DeskCNC or Rutex, and parallel port control software, such as mach2, Linux EMC, TurboCNC, CNCPlayer, CNCZeus and others. (Not all tested)

- ***Screw-On connections for all terminals.***

You only have to screw-on the wires to make all your connections.

- ***Works as a switch for powering your hardware.***

You can use this to turn or off routers, vacuum motors, spindles, enabling contactors for large spindles, coolant pumps, electro valves, etc.

- ***Controls one AC device per card.***

- ***It has a 12 AMP Triac for up to 5AMP devices. (2.5 AMP when using 220VAC current).***

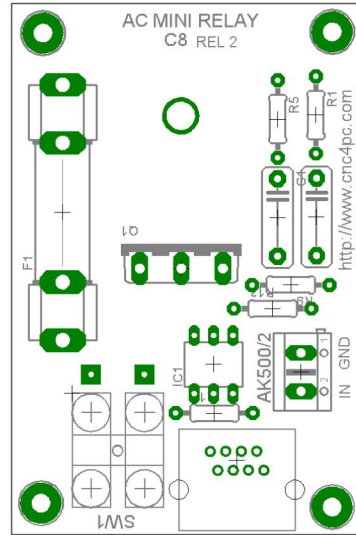
Keep in mind that motors can draw up to 3 times the rated current on start up. Use ½ the rated current when using this device with 220VAC.

- ***Replaceable fuse.***

# Installation

## Wiring:

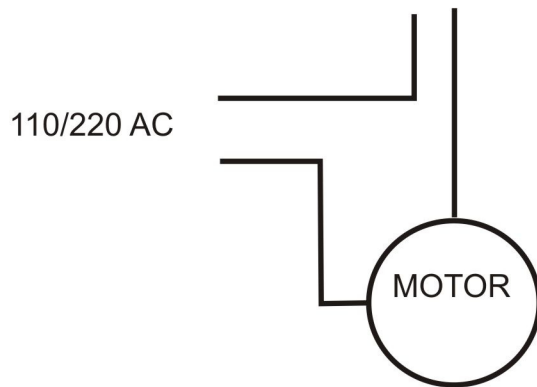
This card works as a normally open switch that enables the connection if a signal is provided to the appropriate input pin. Please make a note that this card works only for AC devices.



GROUND

+3.3 - 5VDC AT 10 MILLIAMP SIGNAL FROM PARALLEL PORT OR BREAKOUT BOARD

+5VDC SIGNAL



## RJ45 CONNECTOR:

Use the RJ45 for using a standard Ethernet cable for fast connections. The pin assignment is as follows:

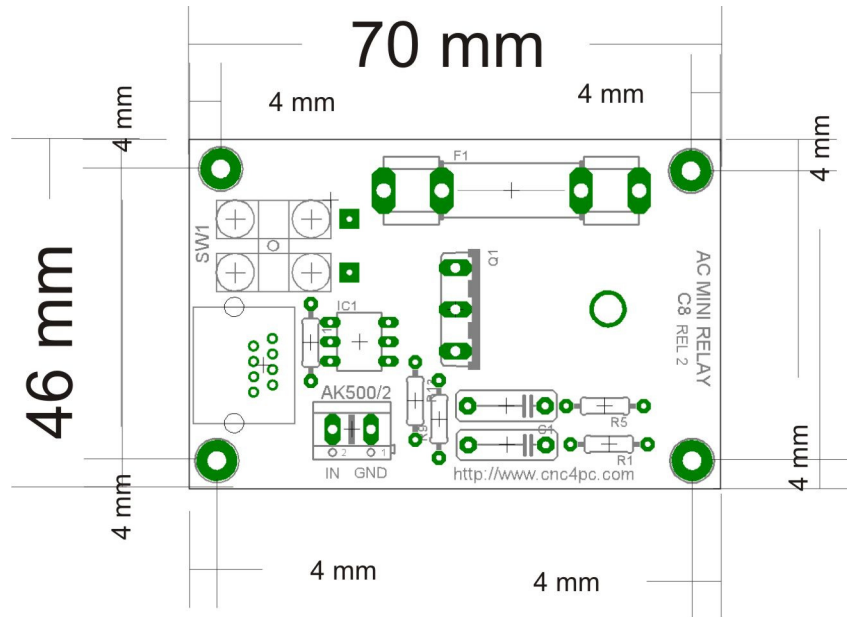
- Pin4=INPUT SIGNAL
- Pin8=GND

## Tips:

**Use as many cards as you need.**

You can control as many devices as output signals you have available.

## Dimensions:



## Disclaimer:

Use caution. CNC machines are dangerous machines. DUNCAN USA, LLC or Arturo Duncan are not liable for any accidents resulting from the improper use of these devices.