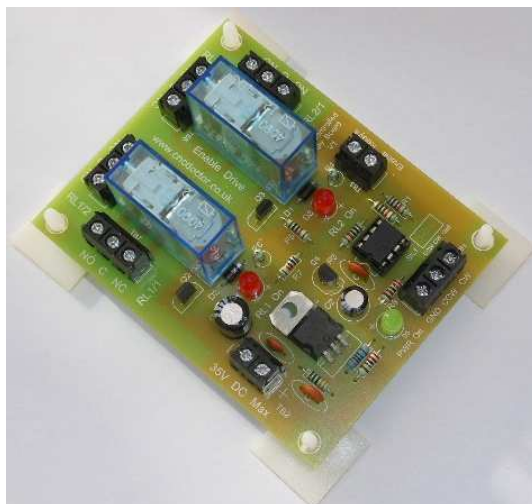




## PIC Relay Board V1



Picture 1

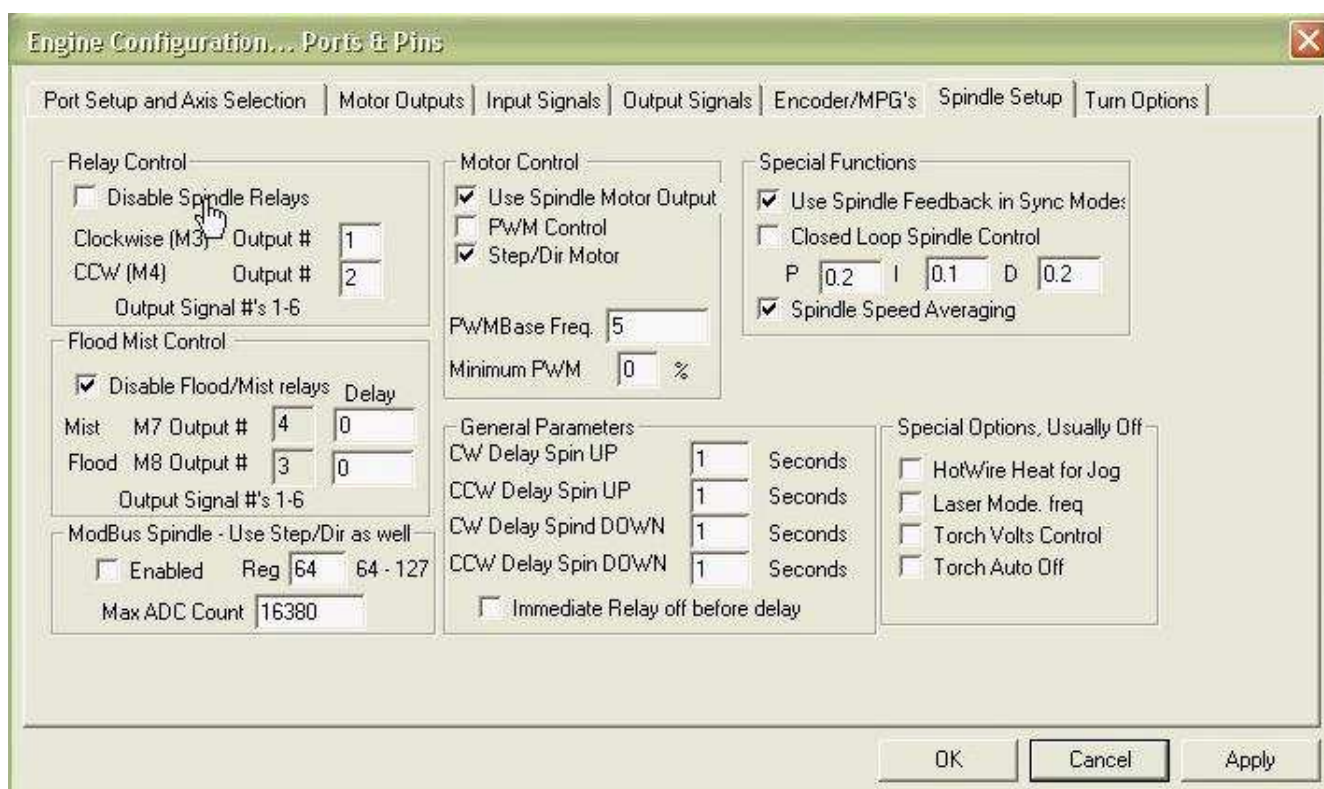
### Features: -

- Just send an M3 or M4 command from Mach3 (using the spindle relay outputs) to this board and the micro controller will take care of switching the relays safely.
- 2x 10A Relays with two circuits on both relays (2x DPDT).
- This board is perfect for controlling your spindle drive and direction of the spindle motor.
- Input sampling made via its onboard micro controller (it measures/samples the switching of the CW & CCW input pins).
- The Micro Controller provides timing delays for the relays.
- An enable relays input (this needs to be connected for the relays to operate).

This board consists of two relays, relay 1 is used for reversing the direction of a spindle motor and relay 2 is used for enabling your spindle drive.

### Configuring the spindle outputs in Mach3: -

Picture 2

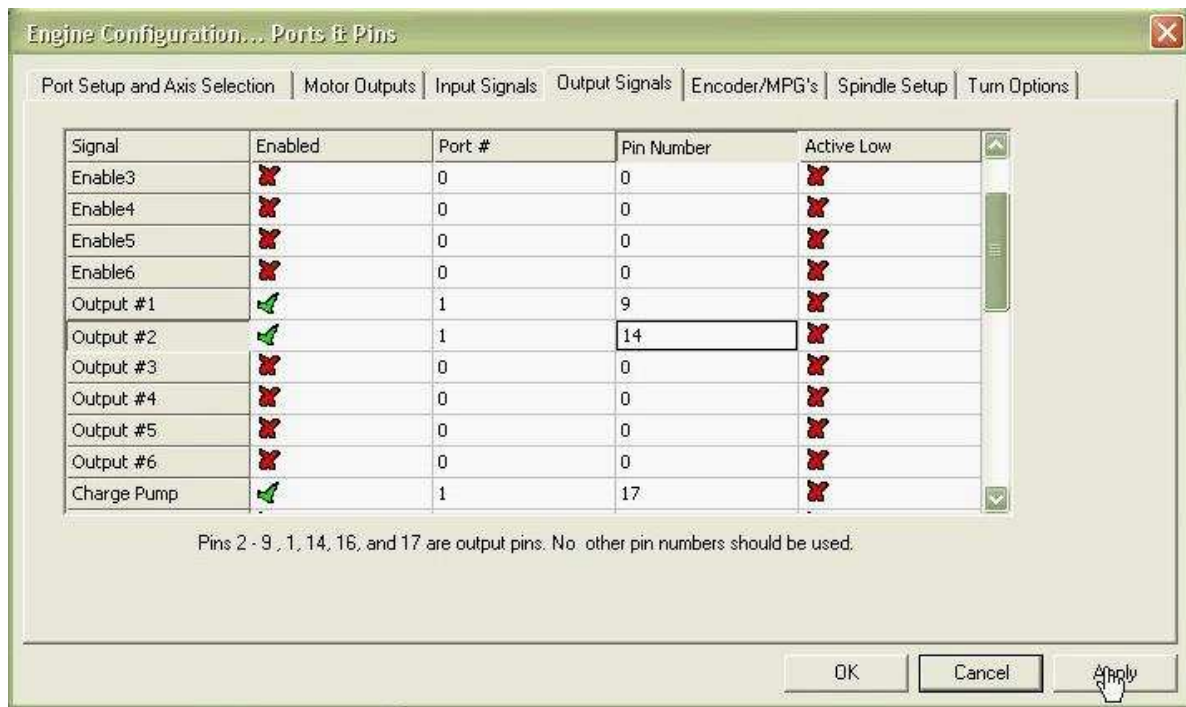


Go into “Mach 3” ->” Config”->”Engine Configuration.... Ports & Pins”->”Spindle Setup” picture 2.

- Uncheck Disable Spindle Relays in the Relay Control column.
- Set Clockwise (M3) Output # (e.g. Outputs 1).
- Set Counter Clockwise (M4) Output # (e.g. Outputs 2).
- Apply these changes.

### *Setup the output signals in Mach3.*

*Picture 3*

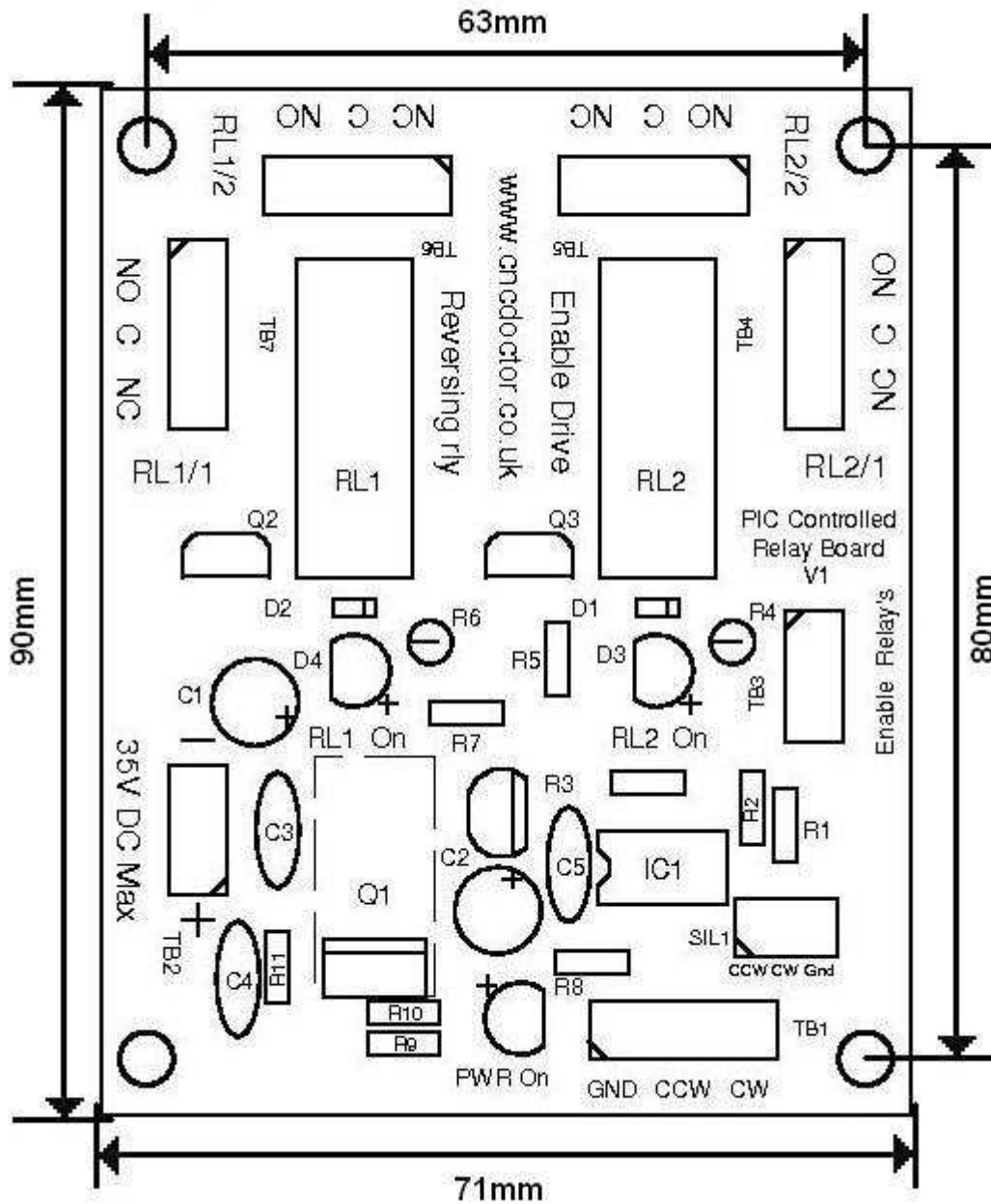


Go into “Mach 3” ->” Config”->”Engine Configuration.... Ports & Pins”->”Output Signals” picture 3.

- Enable output 1 & output 2.
- Set the port pins on both to 1.
- Set output 1 pin number to e.g. 9.
- Set output 2 pin number to e.g. 14.
- Apply these changes.

Maximum supply voltage	35V DC @ 100mA
Input Logic high Max (CW, CCW Inputs)	5V
Input Logic low Max (CW, CCW Inputs)	0.8V
On-state input voltage range on inputs	2V to 5V DC
This board may need extra cooling especially when both relays are active.	
Polarity protection	None

## Aproximate PCB dimentions in mm.



### Disclaimer: -

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