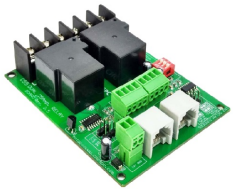
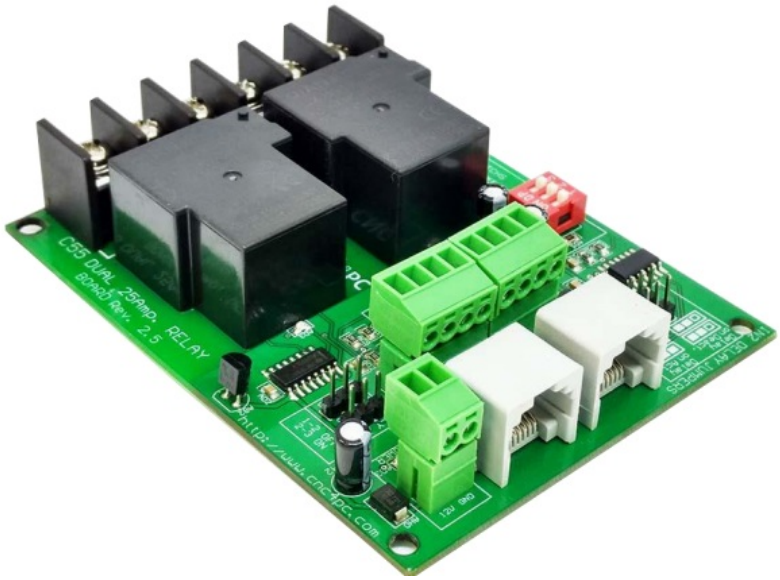


CNC4PC C55 Dual 25A Relay Board User Manual

Contents

CNC4PC C55 Dual 25A Relay Board



USER'S MANUAL VER.1.3
C55 DUAL 25A RELAY BOARD Rev. 3.1

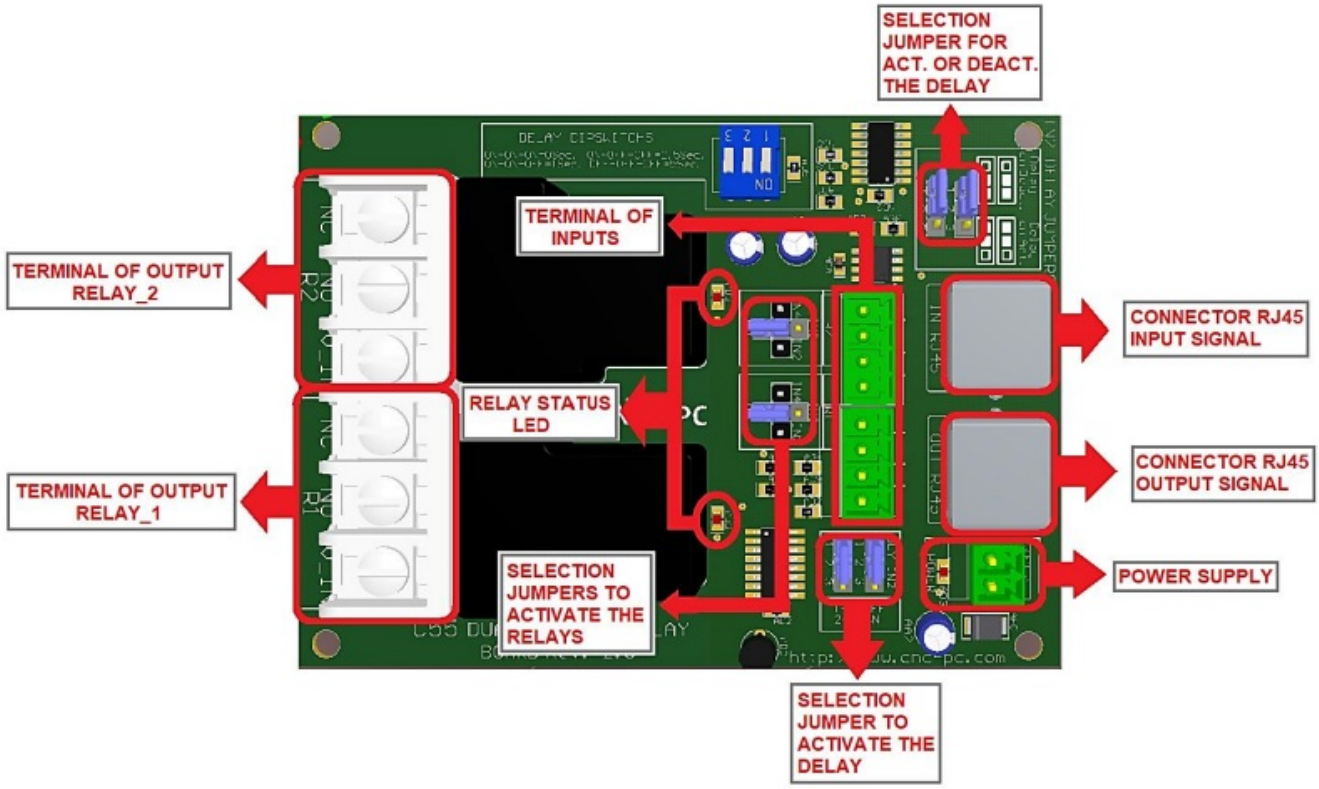
OVERVIEW

This board serves as a basic dual relay board with two 25Amp electromechanical relays. Delay on activation or on deactivation signal can be configured. Multiple boards can be daisy chained for activation several relays simultaneously.
This version can be easily mounted on control boxes using DIN rails

FEATURES

- Two 25 Amp. Electromechanical relays with NO and NC positions.
- Two RJ45 connectors for Input and output signals. To allow daisy chain connecting to 4 boards.
- Screw-On connections for all terminals (input signal and relay contacts).
- Indicator LEDs for relay status.
- User-configurable delay on activation or on deactivation for each relay.
- Three Dipswitch-selectable delays (1, 2.5 and 5 seconds).
- Din Rail Mountable. *NEW*.
- Pluggable Screw-On Terminals. *NEW*.

BOARD DESCRIPTION



SPECIFICATIONS

Power Requirements.
It requires a 12VDC@200mA external power supply to operate.
Note: For cascade connection are required 400mA for each C55 to connect

WARNING

Check the polarity and voltage of the external power source and connect the 12VDC and GND. Overvoltage or reverse-polarity power applied to these terminals can cause damage to the board, and/or the power source.

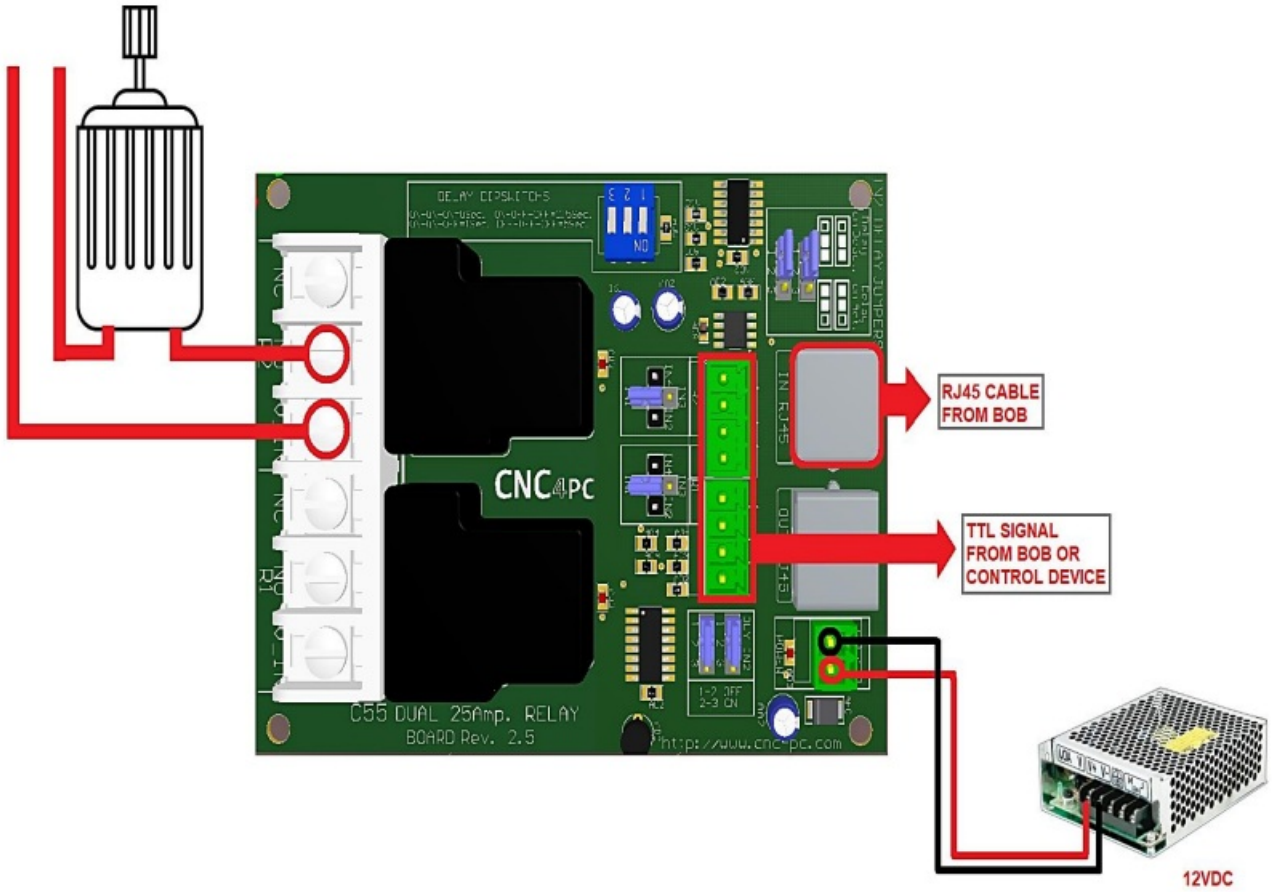
Relays Specifications

ELECTROMECHANICAL RELAYS SPECIFICACTIONS	
Maximum AC Current	20A, 240VAC; (NC CONTAC) 30A, 120VAC; (NO CONTAC)
Maximum DC Current	20A, 28VDC; (NC CONTAC) 30A, 28VDC; (NO CONTAC)

RJ45 PINOUT:
Control signals and power can be connected through this RJ45 connector or the terminals.

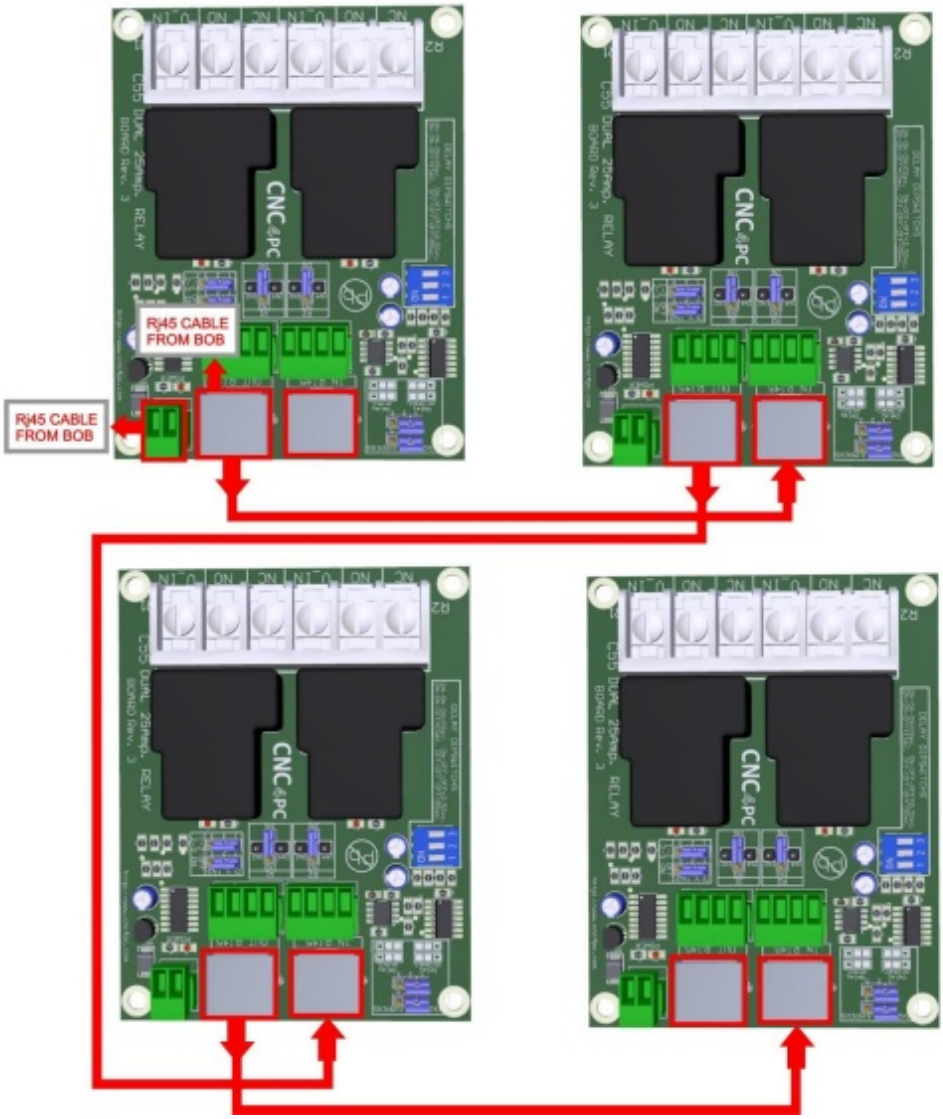
RJ45 PIN	**FUNCTION**
1	GND
2	IN_4
3	IN_3
4	IN_2
5	IN_1
6	NOT_USED
7	NOT_USED
8	12VDC

WIRING SAMPLE



Note: This wiring is just to illustrate a sample product application. Specific wiring may vary from system to system. It is the user's responsibility to implement it correctly.

Basic Wiring

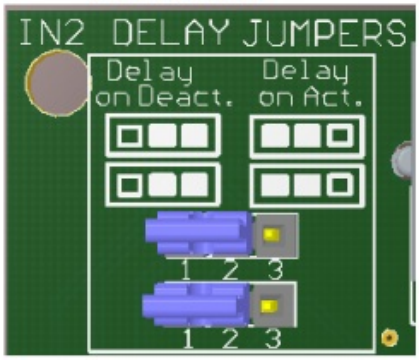


Note: This wiring is just to shows a sample product application. Specific wiring may vary from system to system. It is the user's responsibility to implement it correctly.

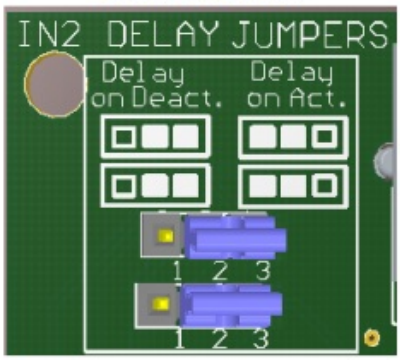
DELAY CAN APPLY TO ACTIVATION OR DEACTIVATION

The board has jumpers and dipswitches to select the delay type and the delay time.

ACTIVATION

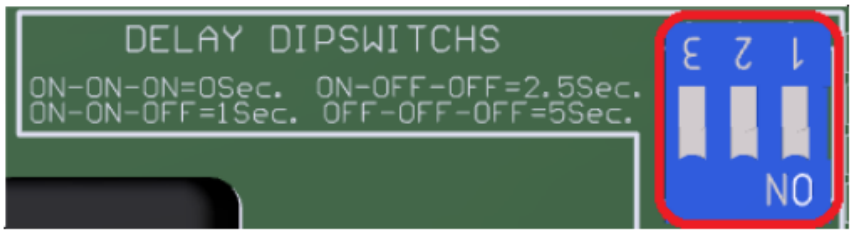


DEACTIVATION

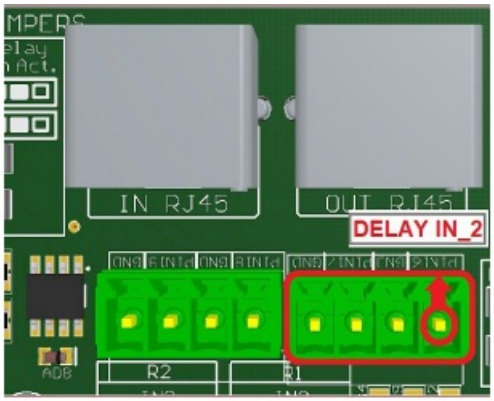


Set the DIP position to determine the delay.

DIPSWITCHS POSITION	DELAY
OFF-OFF-OFF	5 Sec
ON-OFF-OFF	2.5 Sec
ON-ON-OFF	1 Sec
ON-ON-ON	0 Sec



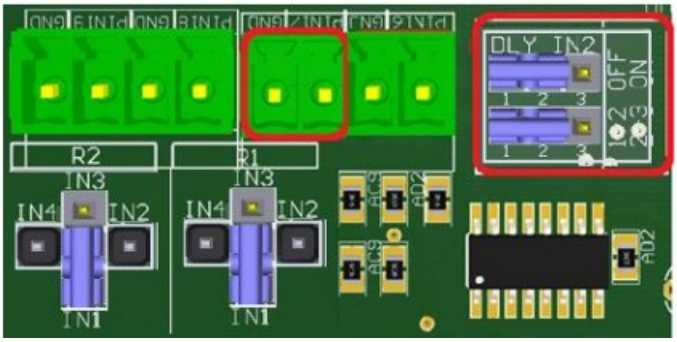
Note: Delay applies only to IN_2.



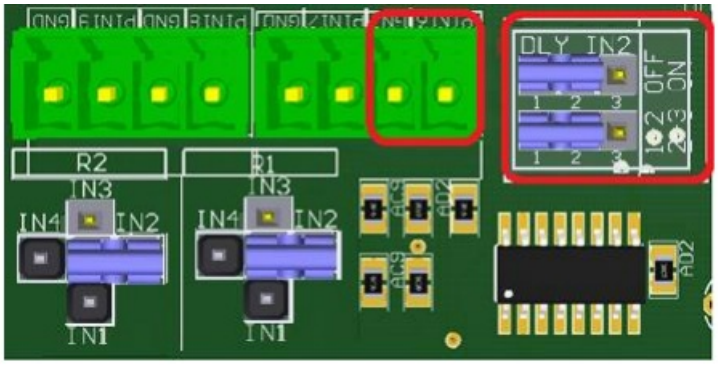
SELECTION JUMPER TO ACTIVATION RELAYS

Relay 1 and 2

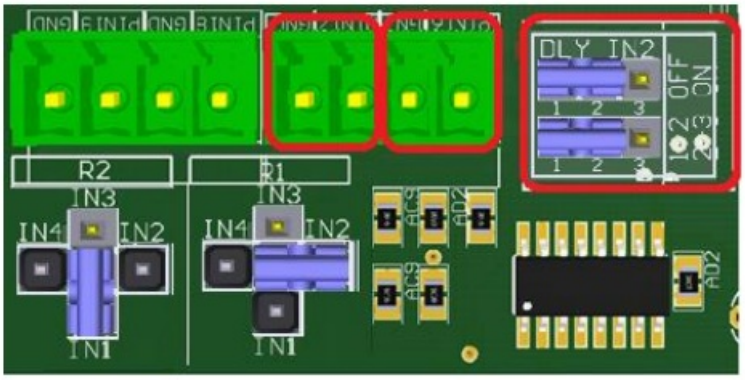
To activate RELAY 1 and RELAY 2 with the signal IN1:



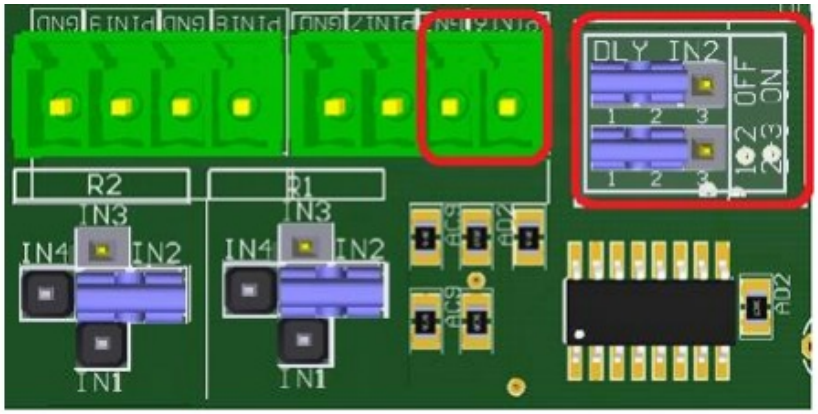
To activate RELAY 1 and RELAY 2 with the signal IN2:



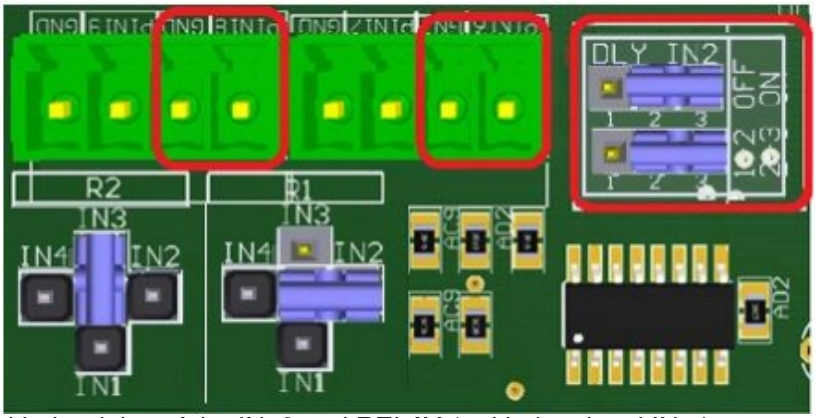
To activate RELAY 1 with the signal IN_2 and activate RELAY 2 with the signal IN_1:



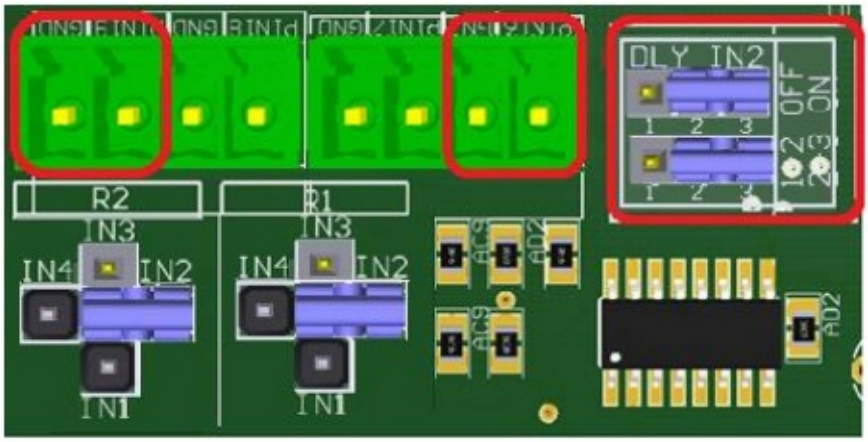
To activate RELAY 1 and RELAY 2 with the delay of the IN_2:



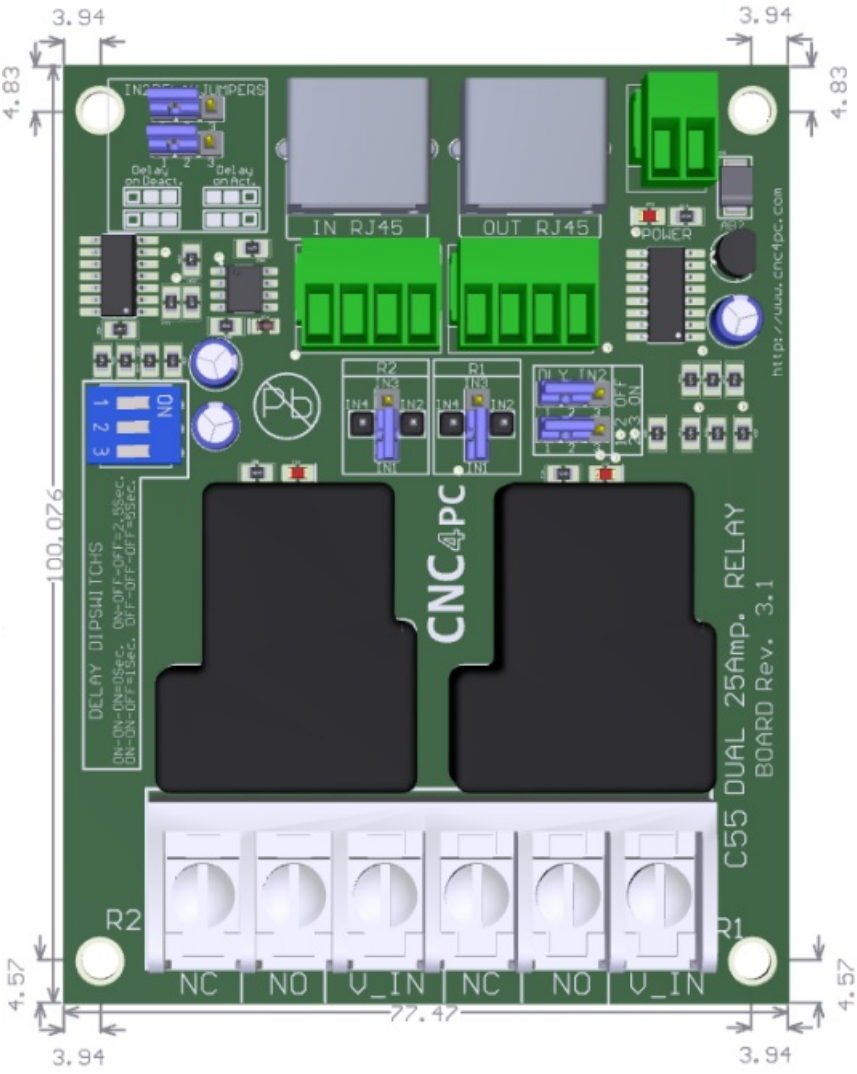
To activate RELAY 2 with the signal IN_3 and activate RELAY 1 with the delay of the IN_2:



To activate RELAY 2 with the delay of the IN_2 and RELAY 1 with the signal IN_4:



DIMENSIONS



All dimensions are in Millimeters.
Fixing holes (4mm)

DISCLAIMER

Use caution. CNC machines can be dangerous machines. Neither DUNCAN USA, LLC nor Arturo Duncan are liable for any accidents resulting from the improper use of these devices. This board is not a fail-safe device and it should not be used in life support systems or in other devices where its failure or possible erratic operation could cause property damage, bodily injury or loss of life.

Documents / Resources

	CNC4PC C55 Dual 25A Relay Board [pdf] User Manual C55 Dual 25A Relay Board, C55, Dual 25A Relay Board, Relay Board

Manuals+.