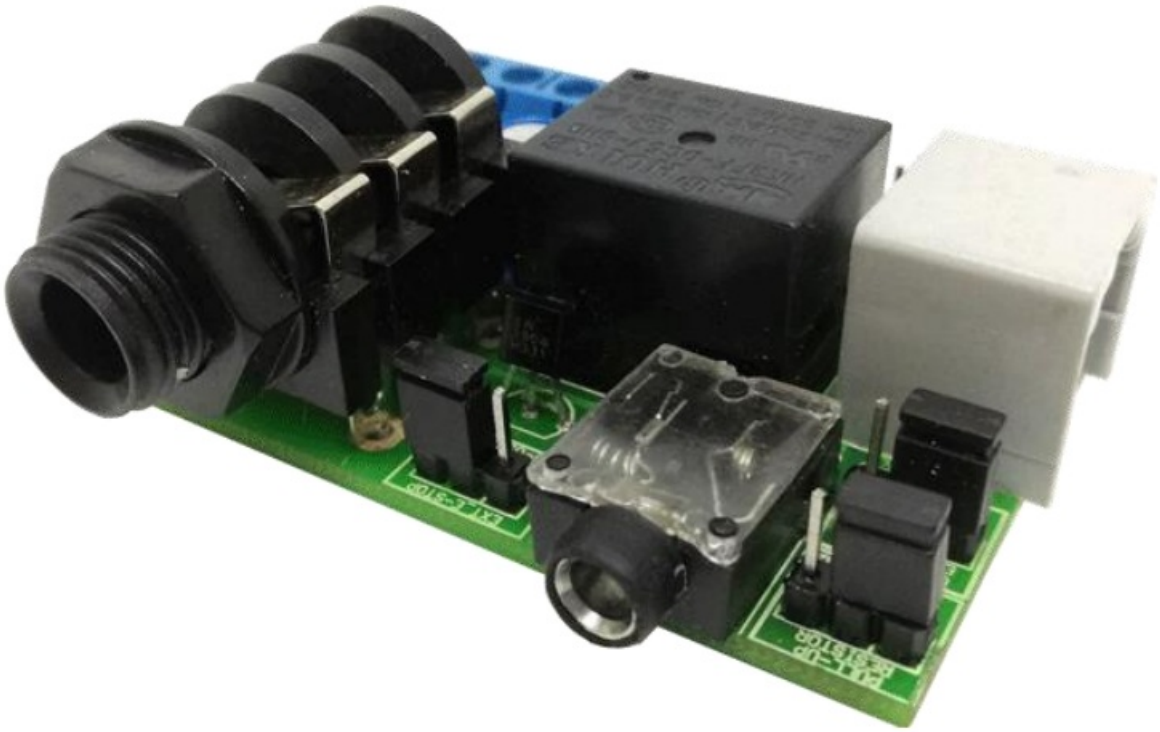
CNC4PC C48 External E-Stop And Probe User Manual

Contents

CNC4PC C48 External E-Stop And Probe



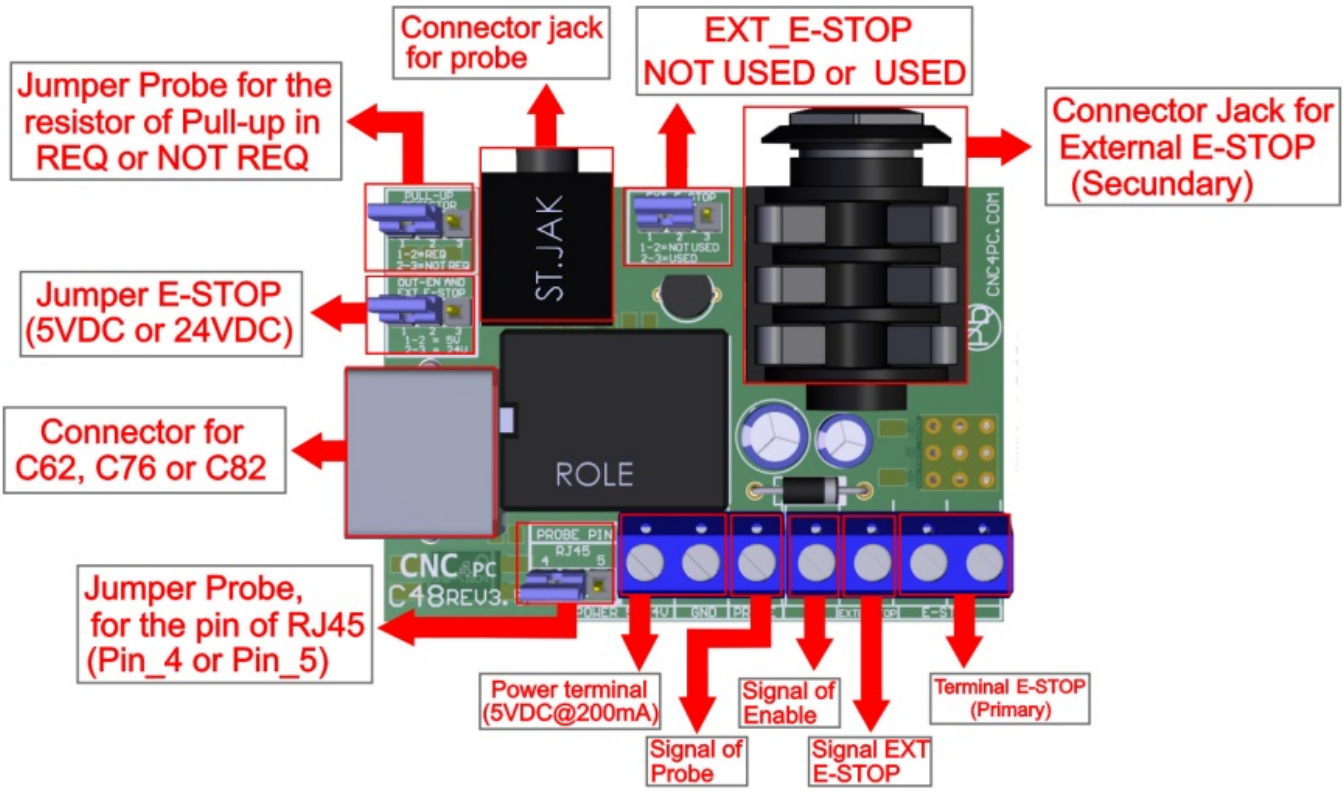
OVERVIEW

This board provides the interface to easily interconnect 1 Probe and 1 external E-Stop to the CNC4PC breakout board.

FEATURES

- 1x 3.5mm jack connector for 1 Probe and Anti-Collision Feature New*
- 1x 1/4″ jack connector for 1 External E-Stop (Secondary- Optional E-Stop)
- RJ45 and Terminal for all I/Os and Power lines
- Easily mountable in the panel of CNC Control Boxes

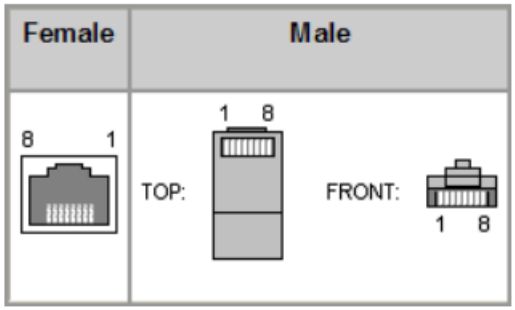
BOARD DESCRIPTION



- **Requirements:**
- It requires a power supply of 5 to 24VDC@200mA to operate.

CONNECTOR RJ45

This connector allows an easy connection with C62, C76, or C82, boards. These RJ45 connectors are used not just to carry the INPUT/OUTPUT signals placed in terminals, but also to the power board.



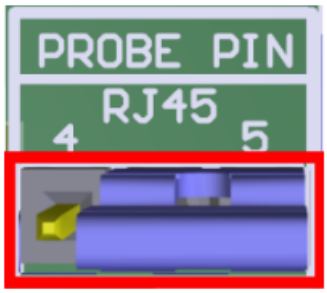
RJ45		
DESCRIPTION	**PIN**	**SIGNAL**
GND	1	
NOT USED	2	
EXT. E-STOP/EN	3	
PROBE	4	P2_11
INDEX	5	P1_15
EXT. E-STOP/EN	6	
5V/24V	7	
NOT USED	8	

PROBE JUMPER FOR PIN RJ45

- If used board C3 is an index set the jumper as a sample in the image.

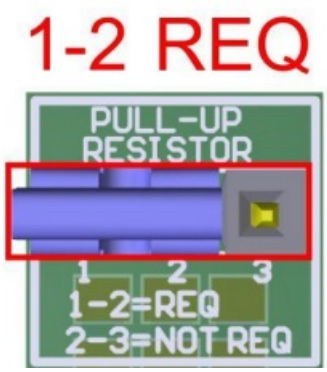
- If used as a probe, set the jumper as a sample in the image.

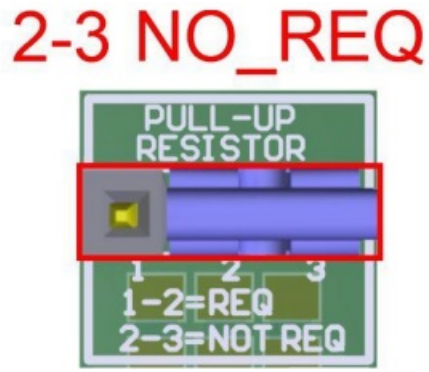
Probe PIN = P2_11



PROBE JUMPER FOR RESISTOR

- Set jumper in REQUIRED position if the input used in the breakout board to connect the probe signal is pulled to DOWN



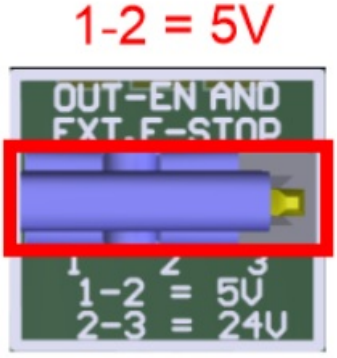


JUMPER EXTERNAL E-STOP

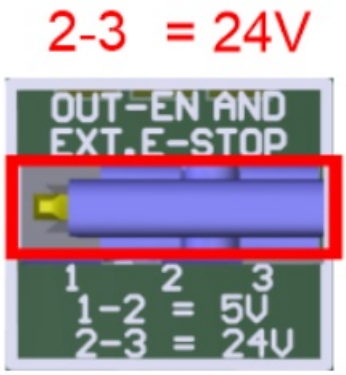
- If an External E-STOP (Secondary) is connected set the jumper in the USED position, if not set the jumper in a position NOT USED.

JUMPER E-STOP

- If used a power supply of 5VDC, set the two jumper as sample in the image



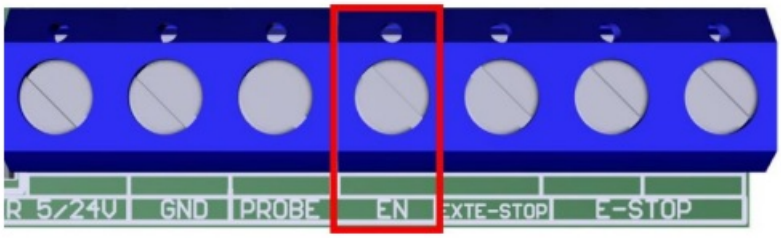
- If used a power supply of 24VDC and in the output of terminal de EN and EXT E-STOP will work with 24V, set jumper as sample in the image.



TERMINALS

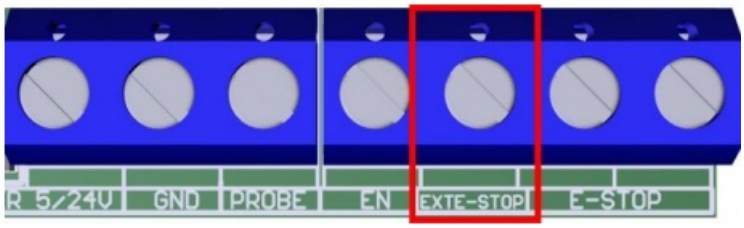
Signal of Enable

- Signal internally wired to the EXT. E-STOP signal. It can be used as an external enable for a breakout board.



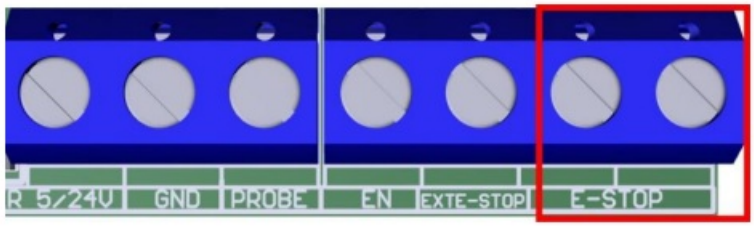
Signal EXT. E-STOP

- This signal is the result of the series between E-STOP (Primary) and EXT. E-STOP (Secondary).



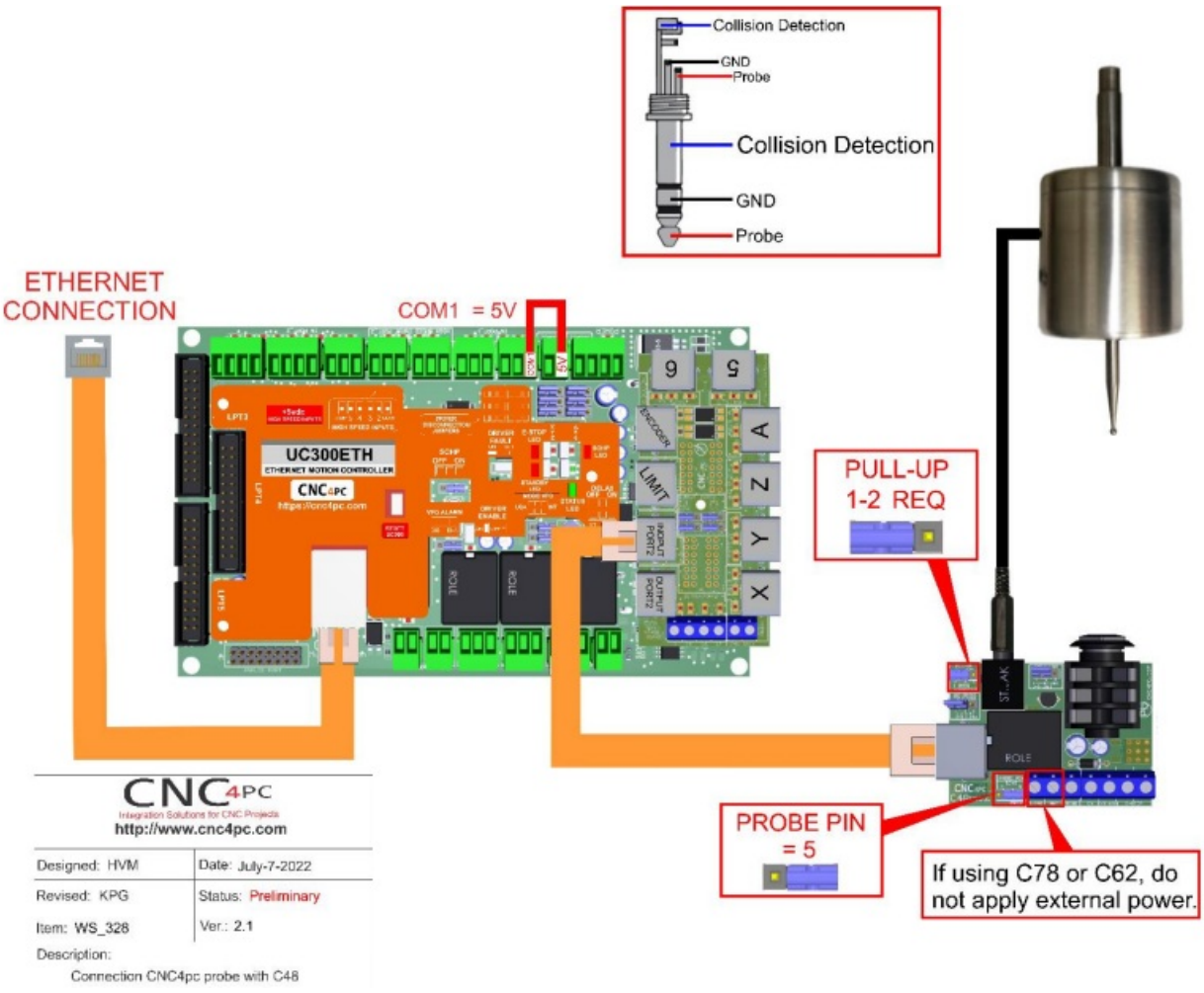
E-STOP (Primary)

- An E-STOP must be connected to those terminals in order to get any E-STOP signal in the EXT. E-STOP terminal.



WIRING SAMPLE

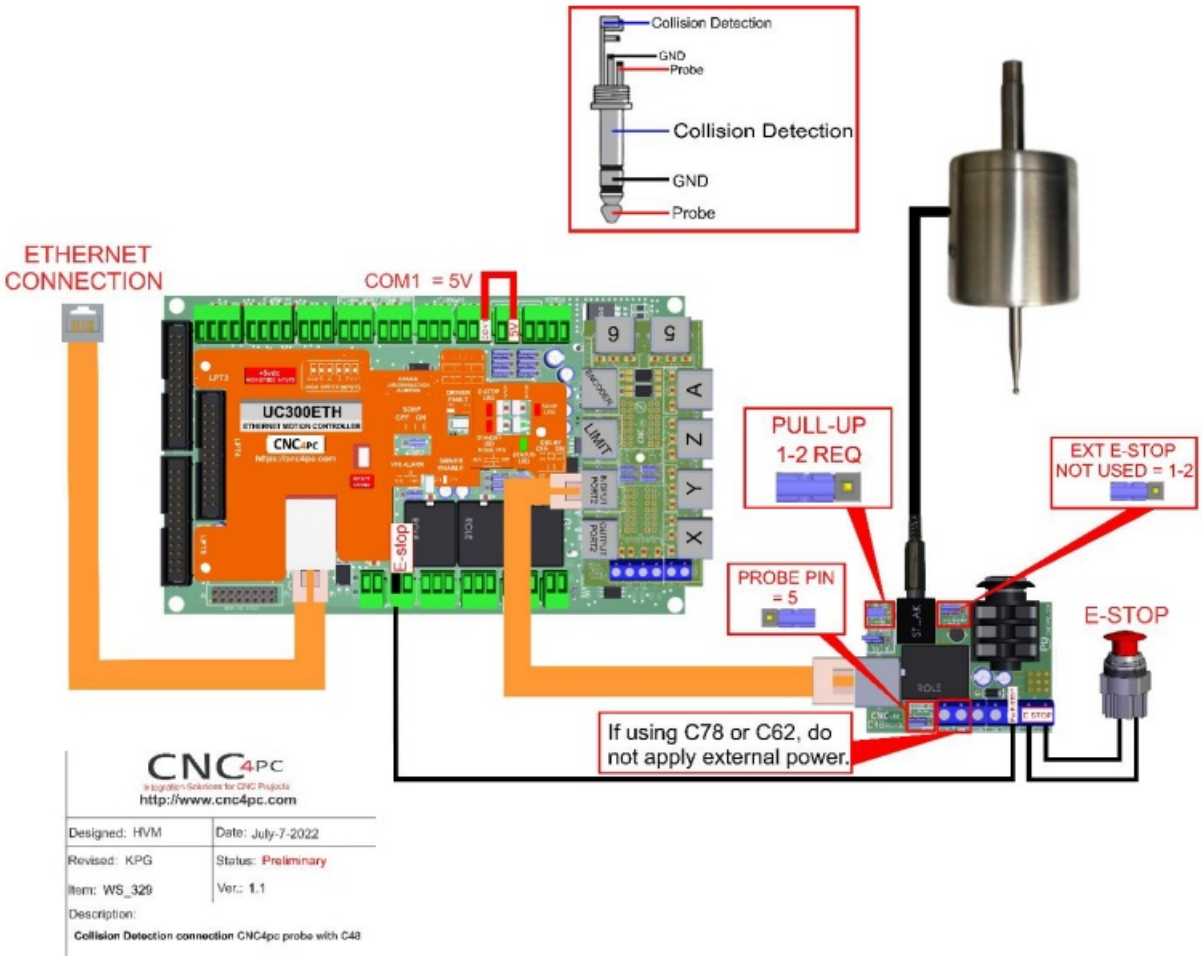
Connection probe



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.

Collision Detection connection with probe



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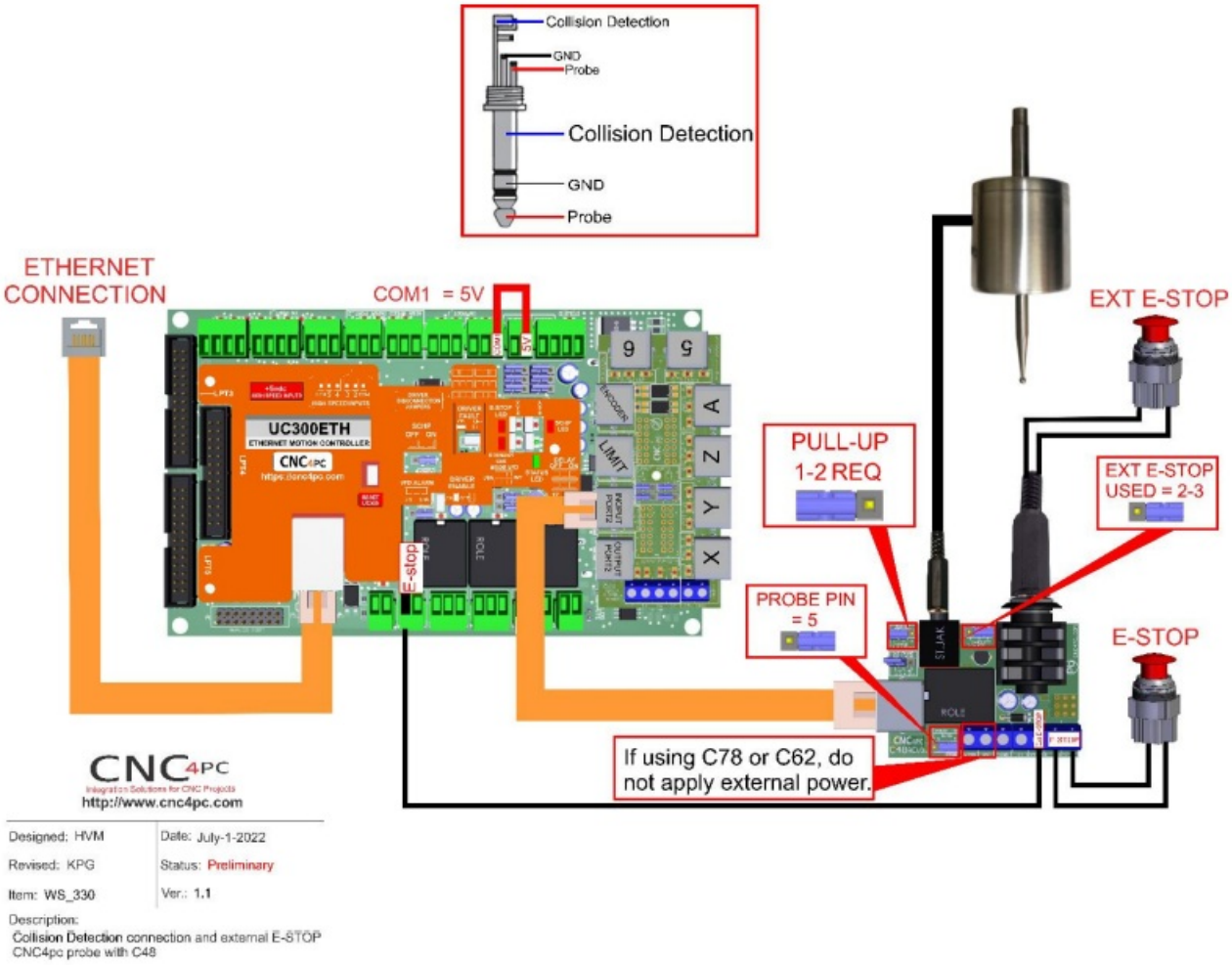
Collision Detection connection and external E-stop with the probe



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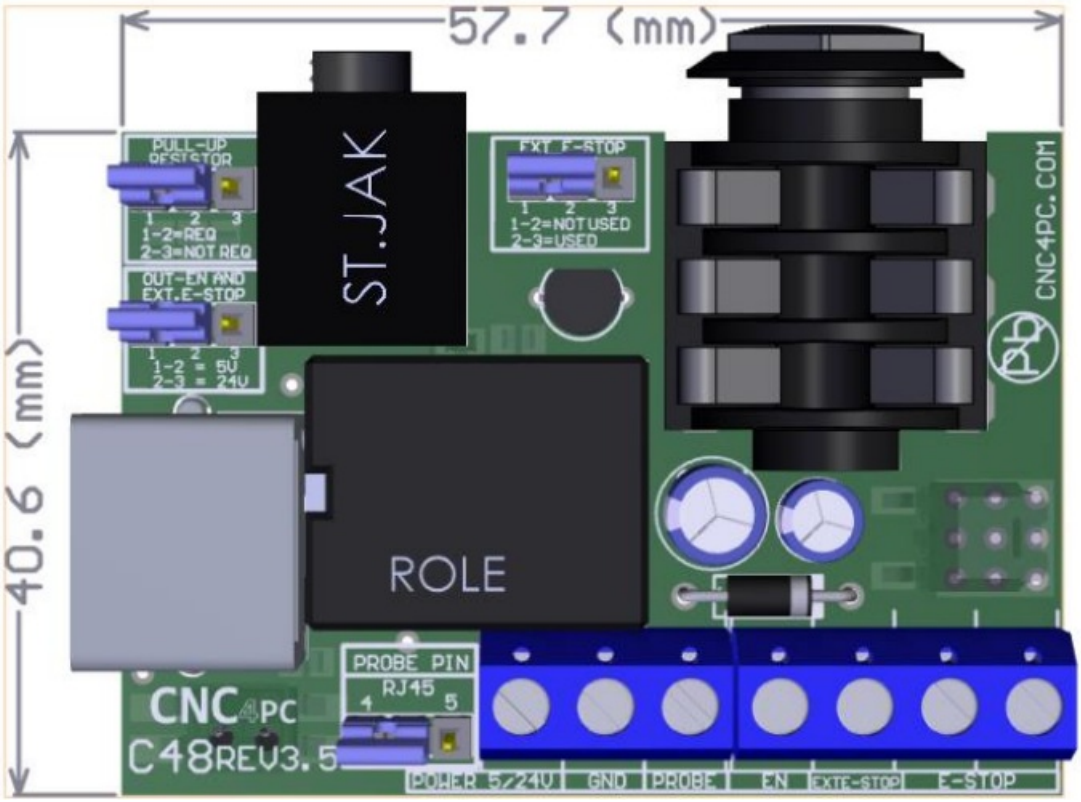
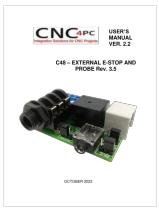
DIMENSIONS



DISCLAIMER

Use caution. CNC machines can be dangerous machines. Neither DUNCAN USA, LLC nor Arturo Duncan is liable for any accidents resulting from the improper use of these devices. This product 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 C48 External E-Stop And Probe [pdf] User Manual C48 External E-Stop And Probe, C48, External E-Stop And Probe, E-Stop And Probe, Probe