

NC STUDIO TO MACH 3 CONTROL BOX



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**INFORMATION IS SPECIFIC TO OUR PRODUCTS AND CAN CAUSE
DAMAGE IF USED WITH NONE COMPATIBLE PRODUCTS SO PLEASE
CHECK WITH YOUR SUPPLIER FOR COMPATIBILITY**

These drawings are supplied as a guide no guarantees are implied or given. Caution when wiring and check with a qualified professional if unsure. It is your responsibility to check you have complied with your local legislation as to safety requirements for your country as machines can cause injury to users.

By using these diagrams you agree to the above safety warning.

Documentation will be updated amended at the discretion of CNC4YOU Ltd.

Please Read Carefully Before Wiring Your Machine

CONDITIONS OF USE

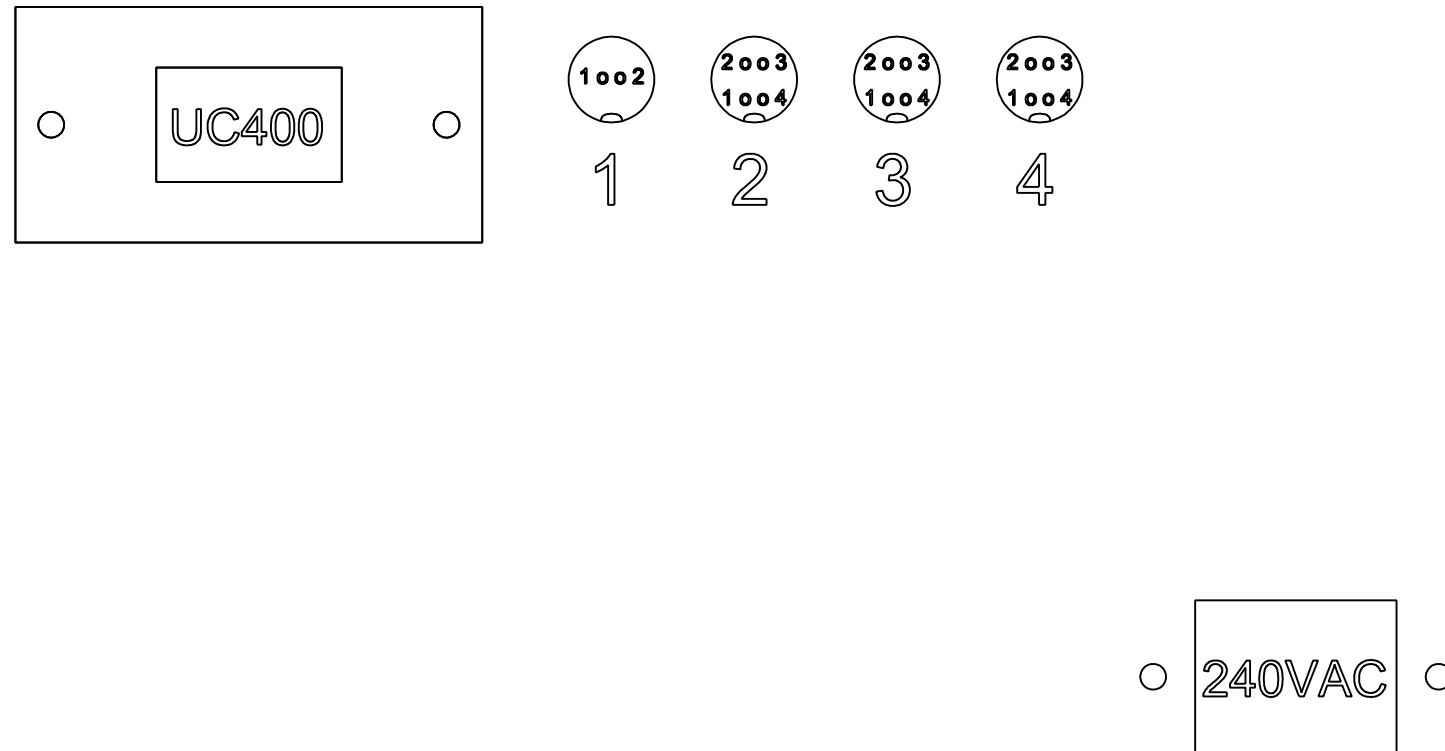
Certain laws and regulations apply to your use of CNC machines and automated equipment and it is essential you comply with your local and any international regulations for construction and use of automated equipment.

These diagrams are a guide to wiring your machine and do not constitute advice or direction to complying with your legal obligations and any health and safety requirements you must comply with. It is crucial you understand the dangers and safety implications when automating your machine or system and special care must be taken when automating your spindle or other cutting tools or equipment and we are showing a simple setup which will be amended without notice to show the complexity of automating cutting tools, but you are again responsible for meeting and understanding your specific end customer use and or meeting all necessary safety regulations and these can and do change regularly so consult your local regulations and make sure you observe all safety regulations .

You are required and agree to maintain compliance with all applicable laws and regulations. You understand and agree that you are solely liable for compliance with such laws and regulations, and under no circumstances shall CNC4YOU Ltd. be responsible or held liable for such compliance. You understand that breach of such laws and regulations may result in both criminal and civil sanctions against you. In accordance with these terms and conditions for CNC4YOU Ltd. you agree to indemnify CNC4YOU Ltd. for any violation of such laws and regulations. If in doubt seek professional advice if you are unsure of your legal obligations.

CNC4YOU Ltd assumes our equipment will be integrated into Industrial control equipment and as above integrated safely to avoid injury to yourselves or third parties. This equipment has not been designed for implicit use for life support applications or intrinsically safe designs where life threatening or critically safe use is required. Our products have not been specifically designed as fail-safe equipment. It is advisable to give adequate training and safety procedures to operators using automatic equipment.

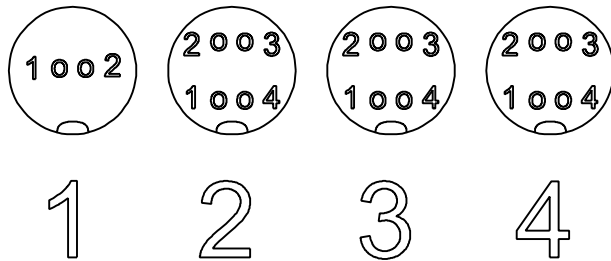
Before using any drawings or wiring diagrams please check on our website for latest version, all wiring diagrams should have a version number if not please contact us so we can amend and issue version information.



Never Connect or Disconnect While Power is ON

View from outside controller for wiring Back Panel

NC studio to Mach 3 Panel Connector Pinout Diagram



INPUT and OUTPUT PIN CONNECTIONS

CONN 1 E-Stop

PIN 1 GND (E-STOP)
PIN 2 PIN 15 CP0-10V (E-STOP)

CONN 2 Wireless Tool Height

PIN 1 PIN 12 CP0-10V (TOOL HEIGHT INPUT)
PIN 2 +12V FROM CP0-10V *
PIN 3 GND FROM CP0-10V
PIN 4 GND CP0-10V (GREEN PROBE SWITCH)

CONN 3 (Pin 12 3D probe) and Pin 13 INPUTS

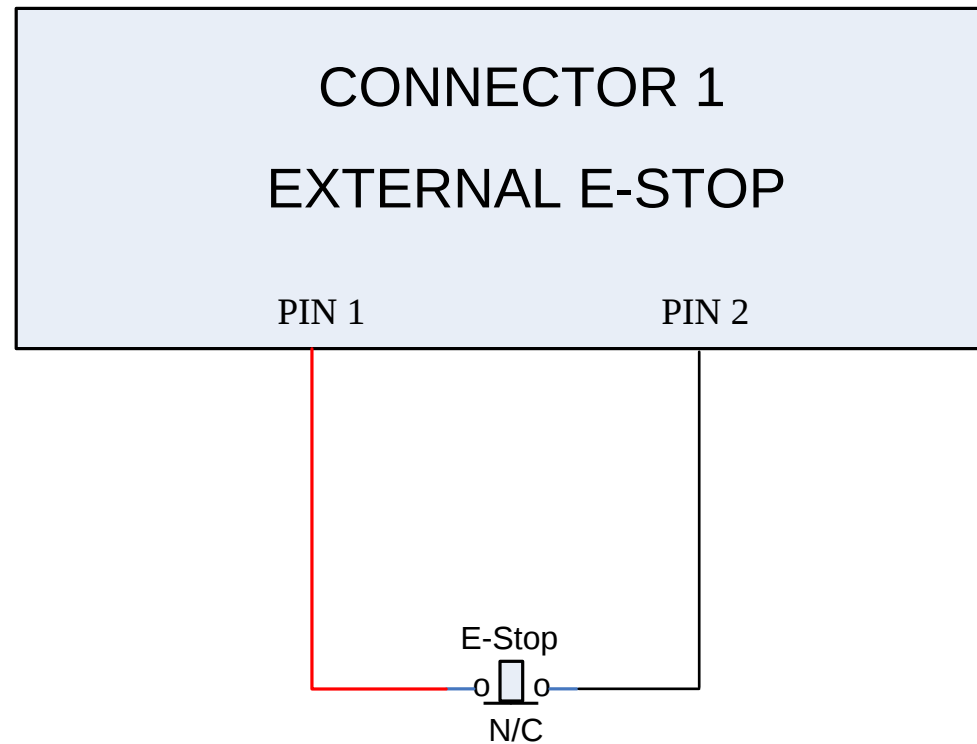
PIN 1 PIN 12 CP0-10V (3D Probe)
PIN 2 +12V FROM CP0-10V *
PIN 3 GND CP0-10V (BLACK)
PIN 4 NOT CONNECTED

CONN 4 4th AXIS OUTPUT

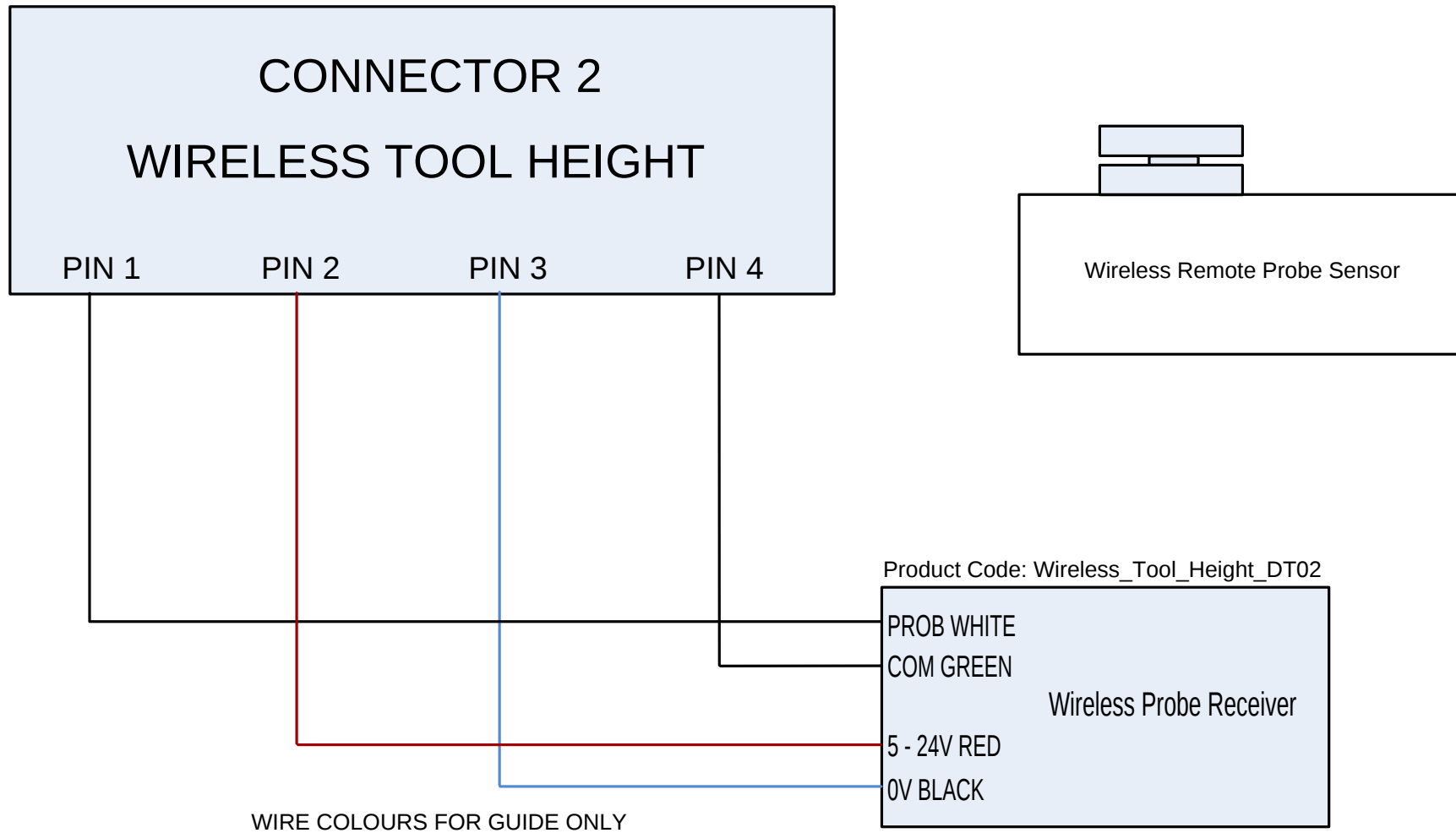
PIN 1 +5V
PIN 2 PUL
PIN 3 DIR
PIN 4 ENA

*** +12V / +5V FROM CP0-10V NOT FOR POWERING EXTERNAL COMPONENTS OR EQUIPMENT EXCEPT AS SHOWN.**

Never Connect or Disconnect while Unit is ON



WIRE COLOURS FOR GUIDE ONLY



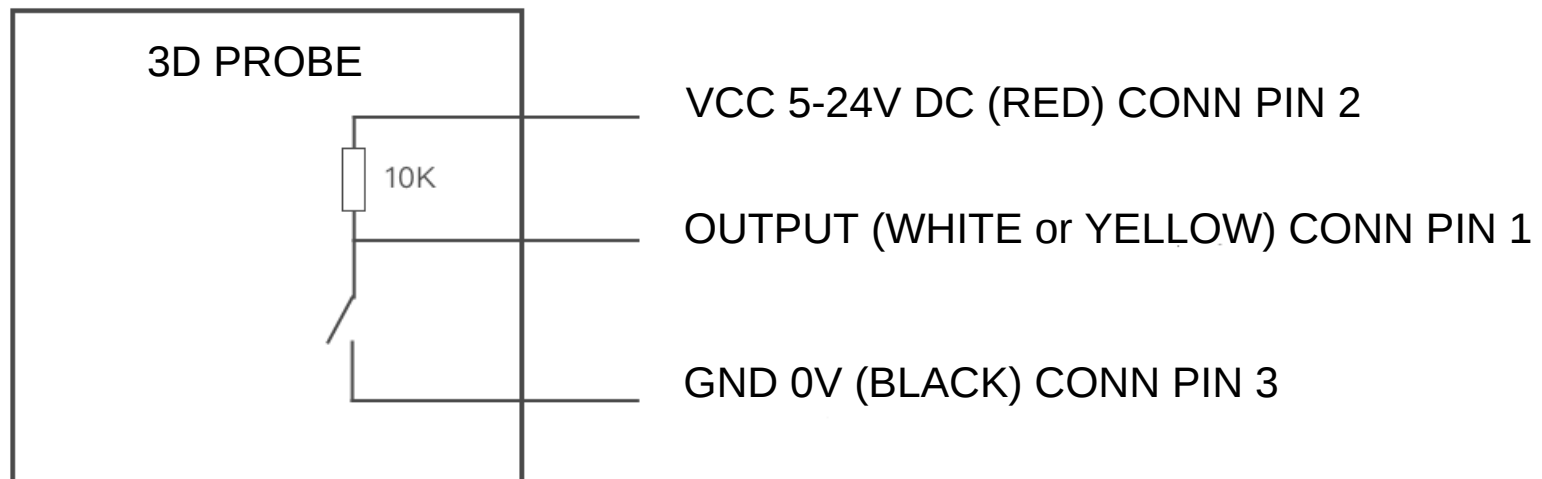
CONNECTOR 3
3D PROBE INPUT
SPARE USER INPUT 13

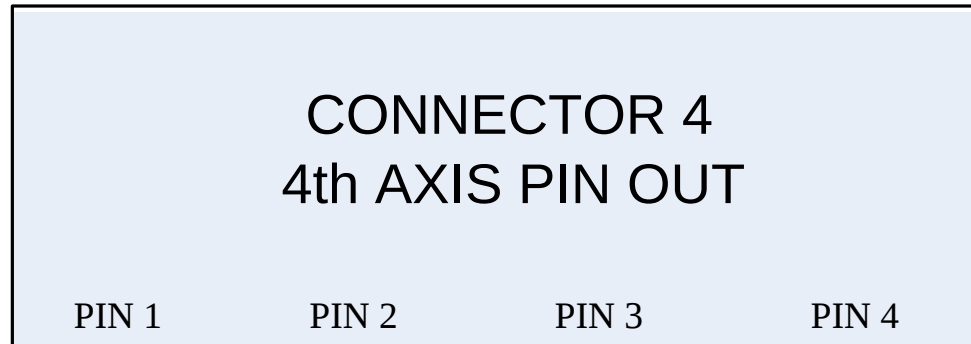
PIN 1

PIN 2

PIN 3

PIN 4





CONN 4 Pin 12 and Pin 13 INPUTS User defined

PIN 1	+5V	
PIN 2	PUL (STEP)	*
PIN 3	DIR (DIRECTION)	
PIN 4	ENA (ENABLE)	

A AXIS WIRING DIAGRAM

