

CNC V2

Circuit revision: 1.1
Source & info: www.HomoFaciens.de

Bridge 1:

InA to Arduino pin 2
InB to Arduino pin 3
InC to Arduino pin 4
InD to Arduino pin 5

Out A + Out B to M2 (Y axis)
Out C + Out D to M1 (Z axis)

Bridge 2:

InA to Arduino pin 6
InB to Arduino pin 7
InC to Arduino pin 8
InD to Arduino pin 9

Out A + Out B to M3 (X axis)
Out C + Out D to M4 (X axis)

4x double photo detector:

M1 (Z-axis) to Arduino pin 12 + 13
M2 (Y-axis) to Arduino pin 10 + 11
M3 (X-axis) to Arduino pin A4 + A5
M4 (X-axis) to Arduino pin A2 + A3

16k Ω protective series resistors close to Arduino pin A1 - A5

Arduino pin A1

2N7000

To router motor

+12V

+5V

GND

M3 (X-axis)

M4 (X-axis)

16k Ω protective series resistors
close to Arduino pin 10 - 13