P1

1 2 3 4 5 6 7 8

1
2 P5
3
4

P4 1
    2
    3
    4

P2   P3
4 3 2 1   4 3 2 1

+5V

14 U1F 15
    4049

9 U1D 10
   4049
11 U1E 12   R1 330   2 LED 1   D1

7 U1C 6
   4049
5 U1B 4   R2 330   2 LED 1   D2
   4049

3 U1A 2
   4049

10K R3
10K R4

+5V

To FFC cable

8
7
6
5
4
3
2
1
P1

4 3 2 1
P5

GND

P2
1
2
3
4

GND

+5V

4
3
2
1
P4

GND

4N25 U2
6   1
5
4   2

R5 200

4
3
2
1
P3

GND

P1 – To X Motor and X/Y Limit Switches
  1.1 A–
  1.2 A+
  1.3 B–
  1.4 B+
  1.5 GND
  1.6 X–HOME
  1.7 Y–HOME
  1.8 +5

P2 – To RPi–CNC X/Y Limit Switch Connector
  1.1 GND
  1.2 N/C
  1.3 X–HOME
  1.4 Y–HOME

P3 – To RPi–CNC Spindle Connector
  3.1 GND
  3.2 LASER FIRE
  3.3 N/C
  3.4 N/C

P4 – To Power Supply Laser Connector
  4.1 N/C
  4.2 GND
  4.3 +5
  4.4 LASER FIRE

P5 – To Y axis stepper driver
  See P1 pins 1–4

Hobart Makers
Created by: Scott Bragg
Checked by:

Notes added: Geoff Steer
Sheet: /
File: K40–interface.kicad_sch
Title: K40 Interface
Size: User   Date: 2021–08–08   Rev: 1
KiCad E.D.A. kicad 5.99.0–unknown–c8944286c0~131~ubuntu21.04.1   Id: 1/1