Port #2
Port #3
Analog
Port #4
Port #1
Port #5
5V

From Servo Drive 5v Bus

24V input / 24V
0V
5V output / 0V
5V

24V DC in
0V in DC out
0V
5V

CN1
CN2

OUT 1 / O1
OUT 2 / O2
OUT 3 / O3
OUT 4 / O4
OUT 5 / O5
OUT 6 / O6
OUT 7 / O7
OUT 8 / O8
OUT 9 / O9
OUT 14 / O14
OUT 16 / O16
OUT 17 / O17

CN1 outputs

A
X
Y
Z

OUT 1 / O1
OUT 14 / O14
OUT 16 / O16
OUT 17 / O17

CN2 outputs

From 24v+ Bus
To 24v- via 3DProbe
From 24v+ Bus
To 24v- via E-Stop & Spindle Switch
From 24v+ Bus
To 24v- via Probe
From 24v+ Bus
To 24v- via Limit Switches

IN 11+ / I11+
IN 11- / I11-
IN 12+ / I12+
IN 12- / I12-
IN 13+ / I13+
IN 13- / I13-
IN 15+ / I15+
IN 15- / I15-

CN1 inputs

CN2 inputs

I10- / IN 10-
I10+ / IN 10+
I11- / IN 11
I11+ / IN 11
I12- / IN 12
I12+ / IN 12
I13- / IN 13
I13+ / IN 13
I15- / IN 15
I15+ / IN 15

CN1 inputs

To 24v- Bus
From 24v+ Push Button Lamp (Spindle)

Sensor S2 Tool Eject (Spindle)

Sensor S1 Tool Locked (Spindle)

From 24v+ S1 & S2 (Spindle)

From 24v0 S1 & S2 (Spindle)

I2- / IN 2-
I2+ / IN 2+
I3- / IN 3-
I3+ / IN 3+
I4- / IN 4-
I4+ / IN 4+
I5- / IN 5-
I5+ / IN 5+
I6- / IN 6-
I6+ / IN 6+
I7- / IN 7-
I7+ / IN 7+
I8- / IN 8-
I8+ / IN 8+
I9- / IN 9-
I9+ / IN 9+
I10- / IN 10-
I10+ / IN 10+

CN2 inputs

To 24v- Bus
From Push Button 24v+ (Spindle)

From Push Button Output (Spindle)

From Temp Sensor on Front Bearings (Spindle)

From Temp Sensor on Front Bearings (Spindle)

24v0 From Push Button Lamp (Spindle)

To 24v- via A- Limit Switch
From 24v+ Bus
To 24v- via Y- Limit Switch
From 24v+ Bus

Auto Squaring the Gantry
so they're on a separate pins to other Limits
(I think this is how it's done...?)