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| **Name** | **Definition** | **Properties** |
| rpi\_to\_csi\_camera | \*camera connection to RPI | * 8 Megapixel Resolution * MIPI CSI-2 v1.0 |
| 120vac\_sys | \*Wall power to everything | * 120VAC RMS Max * 120VAC RMS Min * 120VAC RMS Nominal * 60 Hz |
| 24v\_dc\_sys | \*24V DC power to motors | * 24VDC Nominal * 6A max (2A per motor) |
| stepper\_driver\_phases | \*Driver to Motor connection | * 5A max * 2A nominal * 0A min |
| digital\_driver\_comms | \*Interpreter to motor driver digital lines | * 0V min * 5V max |
| database\_network\_to\_rpi | \*Database to RPI over wifi | * 2.4GHz signal * 10Mb/s bandwidth |
| rpi\_to\_display\_adapter | \*RPI to external monitor | * HDMI mini connector * Standard HDMI video signals |
| rpi\_to\_vacuum\_activation | \*RPI to vacuum pump signal | * 0V min * 5V max |
| motor\_to\_encoder\_hall\_effect | \*Magnetic sensor feedback | * 0V min * 5V max |
| limit\_switch\_to\_rpi | \*Limit switches to RPI | * 0V min * 5V max |
| encoder\_to\_rpi | \*Encoder pulse signals | * 0V min * 5V max |