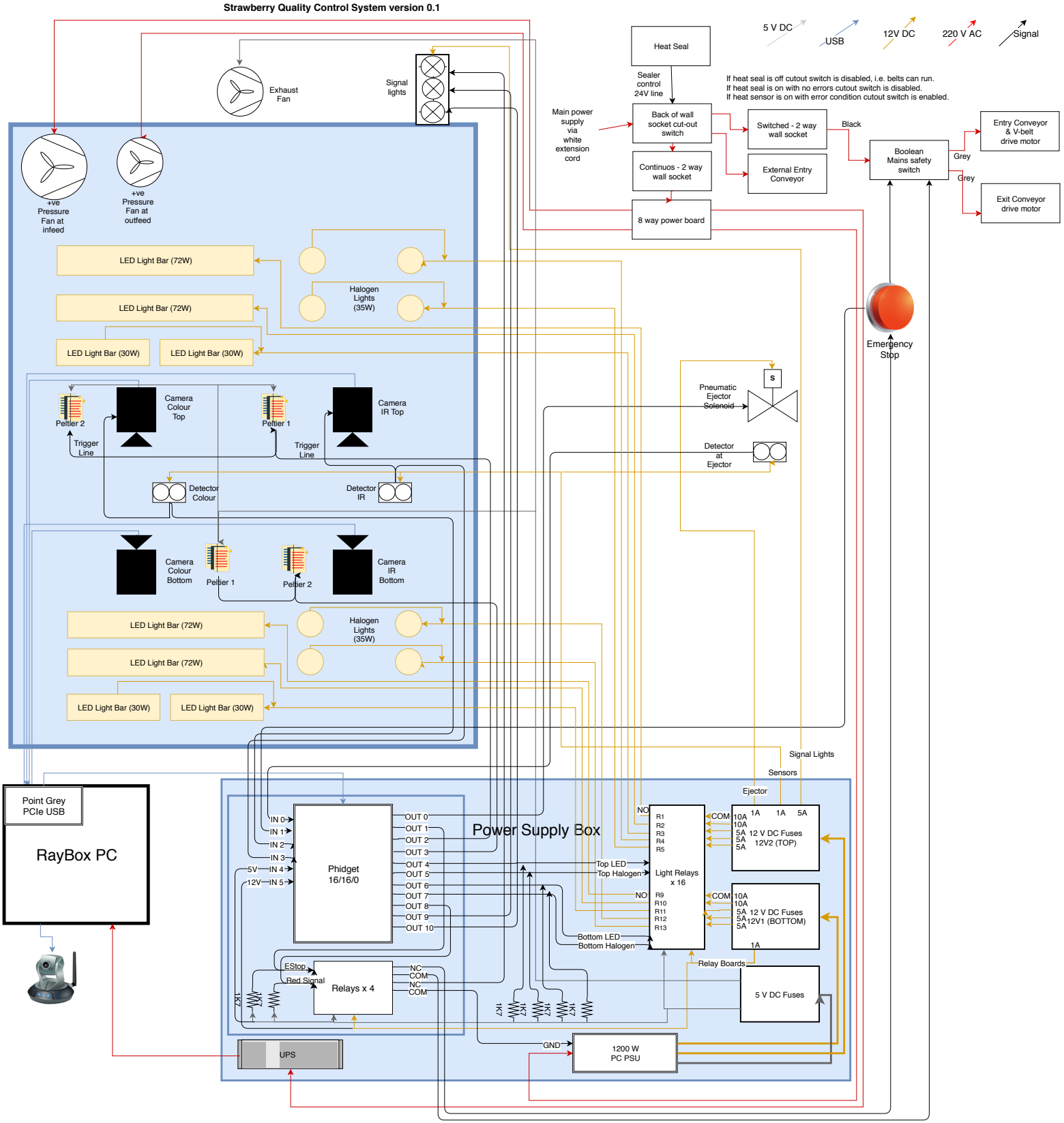
Strawberry Quality Control System version 0.1
5 V DC
USB
12V DC
220 V AC
Signal
Heat Seal
Sealer control 24V line
If heat seal is off cutout switch is disabled, i.e. belts can run.
If heat seal is on with no errors cutout switch is disabled.
If heat sensor is on with error condition cutout switch is enabled.
Main power supply via white extension cord
Back of wall socket cut-out switch
Switched - 2 way wall socket
Black
Boolean Mains safety switch
Entry Conveyor & V-belt drive motor
Grey
Grey
Exit Conveyor drive motor
Continuos - 2 way wall socket
External Entry Conveyor
8 way power board
Exhaust Fan
Signal lights
+ve Pressure Fan at infeed
+ve Pressure Fan at outfeed
LED Light Bar (72W)
LED Light Bar (72W)
Halogen Lights (35W)
LED Light Bar (30W)
LED Light Bar (30W)
Emergency Stop
Pneumatic Ejector Solenoid
S
Peltier 2
Camera Colour Top
Peltier 1
Camera IR Top
Trigger Line
Trigger Line
Detector at Ejector
Detector Colour
Detector IR
Camera Colour Bottom
Peltier 1
Peltier 2
Camera IR Bottom
LED Light Bar (72W)
Halogen Lights (35W)
LED Light Bar (72W)
LED Light Bar (30W)
LED Light Bar (30W)
Signal Lights
Sensors
Ejector
Point Grey PCIe USB
RayBox PC
Power Supply Box
IN 0
IN 1
IN 2
IN 3
5V
IN 4
12V
IN 5
Phidget 16/16/0
OUT 0
OUT 1
OUT 2
OUT 3
OUT 4
OUT 5
OUT 6
OUT 7
OUT 8
OUT 9
OUT 10
Top LED
Top Halogen
Bottom LED
Bottom Halogen
NO
R1
R2
R3
R4
R5
Light Relays x 16
R9
R10
R11
R12
R13
COM
10A
10A
5A
5A
5A
1A
1A
5A
12 V DC Fuses 12V2 (TOP)
12 V DC Fuses 12V1 (BOTTOM)
1A
Relay Boards
5 V DC Fuses
EStop
Red Signal
Relays x 4
NC
COM
NC
COM
1K7
GND
1200 W PC PSU
UPS