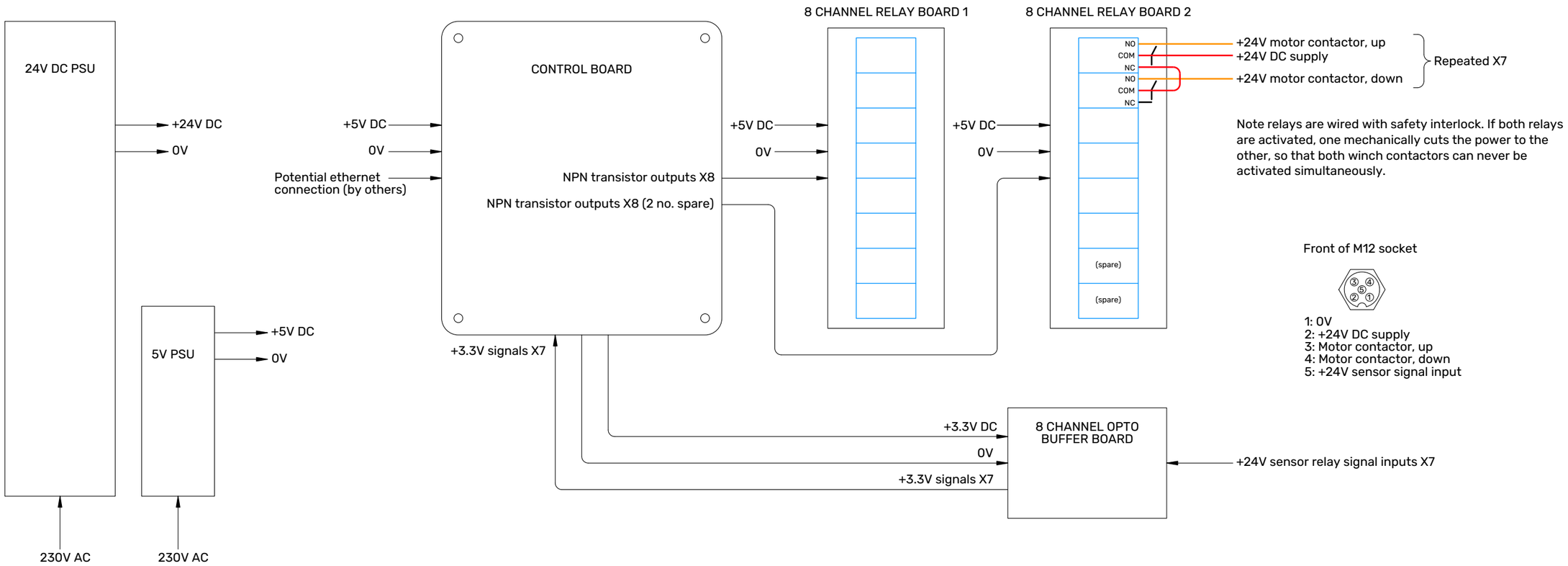
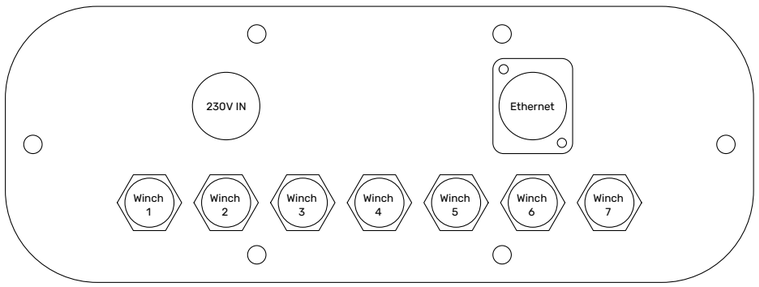
MAIN CONTROL BOX

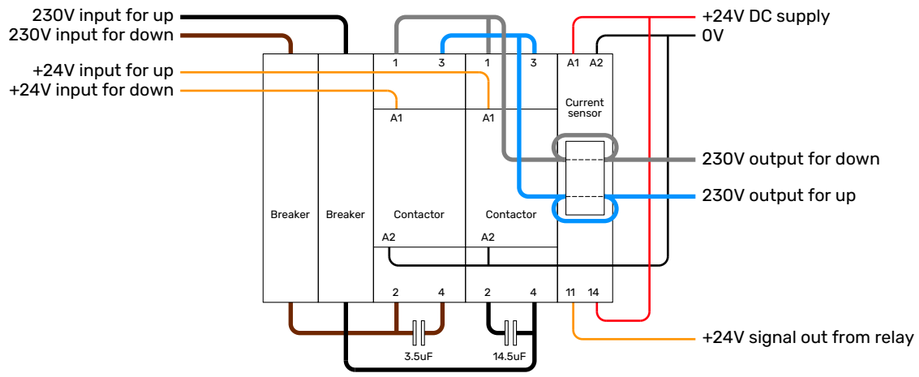


CONNECTION PLATE



View from enclosure exterior

INDIVIDUAL WINCH CONTROL BOX (X 7 NO)



The 4 no. 230V connections originally linked the winch to the manual handset.
The handset has been replaced by two contactors that can be operated via 24V signals from the main control box.
There is also a current detecting sensor to allow the main control box to monitor the state of the motor.
Note the 230V cables pass through the sensor coil at least twice to guarantee detection.

Project:	HANGING BASKETS
Drawing title:	Wiring diagrams
Date:	26th October 2026
Drawn by:	nervoussquirrel.com
Revision:	0
Scale:	1:2 @ A3 All dimensions in mm
Sheet:	1 of 2

Sparkfun ethernet adapter

J?
RJ45_LED_Shielded
TR?
B10601S
R? 75R
C? 0.1uF
C? 1nF
J?
Conn_02x03_Counter_Clockwise

Optional NPN transistor board (typical single channel) Used to control optocouplers for stepper drivers, relay boards etc.

R? 2K
Q? BC847

+5V
R1 220R
D1 LED
C1 10uF
5V from power supply
0V from power supply

U1
Teensy4.1

SW1
SW_Push
SW2
SW_Push
D2 LED
R2 100R
D3 LED
R3 100R

SW1
SW_Coded_SH-7050

The PCBs have provision for up to 8 no. 4 channel transistor PCBs
(although the amount in use will vary from board to board)

nervoussquirrel.com

Sheet: /		
File: wtt_pcb_v2.kicad_sch		
Title: PCB for kinetic elements, board V2.0		
Size: A4	Date: 2026-04-28	Rev: 1
KiCad E.D.A. 10.0.1		Id: 1/1