

MKS-DLS32
IO Expander Boards
FOR/REV/PWM
Build-Brighton-CNC
v0.9 (12/02/2023)

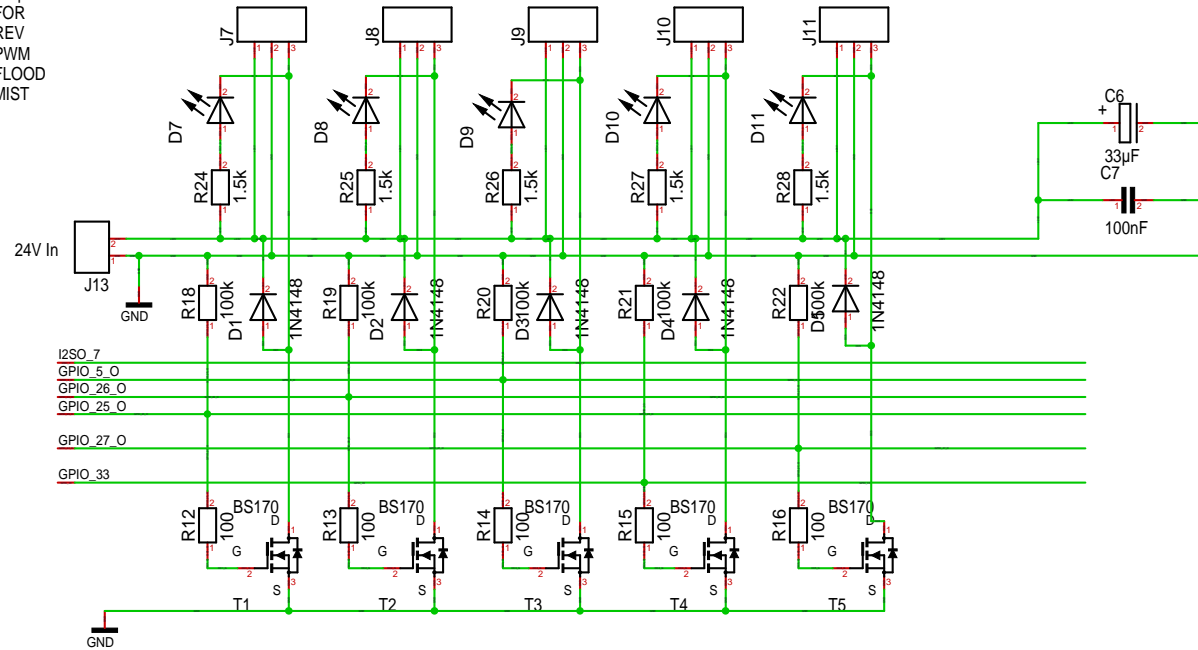
NB: tab on the MKS board EXP connectors
is flipped 180 compared to tab on this board,
but pin number order is the same

IO to be patched on the MKS-DLC32:

gpio No.	Net	From	To	Notes
GPIO_0	SDA	J2.3	EXP2.4	DFU Mode on reset
GPIO_4	SCL	J2.4	EXP2.5	

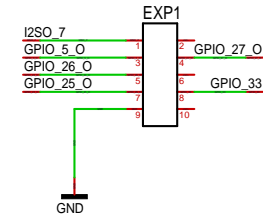
I2SO.7 has a 500mA OC/24V connector on the MKS
GPIO.32 has an 800mA OC/24V screw terminal on the MKS
These outputs do not have GND,
so cannot be use as switch outputs

Output Functions:
FOR
REV
PWM
FLOOD
MIST



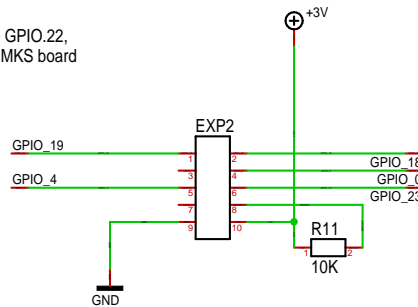
Output pin map:
 OC1 GPIO_25 PWM
 OC2 GPIO_26 REV
 OC3 GPIO_5 FOR
 OC4 GPIO_27 FLOOD
 OC5 GPIO_33 MIST
 N/C I2SO_7

1: I2SO.7 (O)
 2: GPIO_X
 3: GPIO.5 (O)
 4: GPIO.27 (O)
 5: GPIO.26 (O)
 6: GPIO_Y
 7: GPIO.25 (O)
 8: GPIO.33 (I/O)
 9: GND
 10: +5V



Input Functions:
START CYCLE
FEED HOLD
MACRO
RESET
PROBE*
SAFETY DOOR (TBD)

*PROBE to use GPIO.22,
J12 (Probe) on MKS board



Input Pin Map:
 SW1 EXP2_6 GPIO_23 RESET
 SW2 EXP2_2 GPIO_18 CYCLE START
 SW3 EXP2_1 GPIO_19 FEED HOLD
 SW4 EXP2_4 GPIO_0 MACRO
 SW5 EXP2_5 GPIO_4 DOOR

