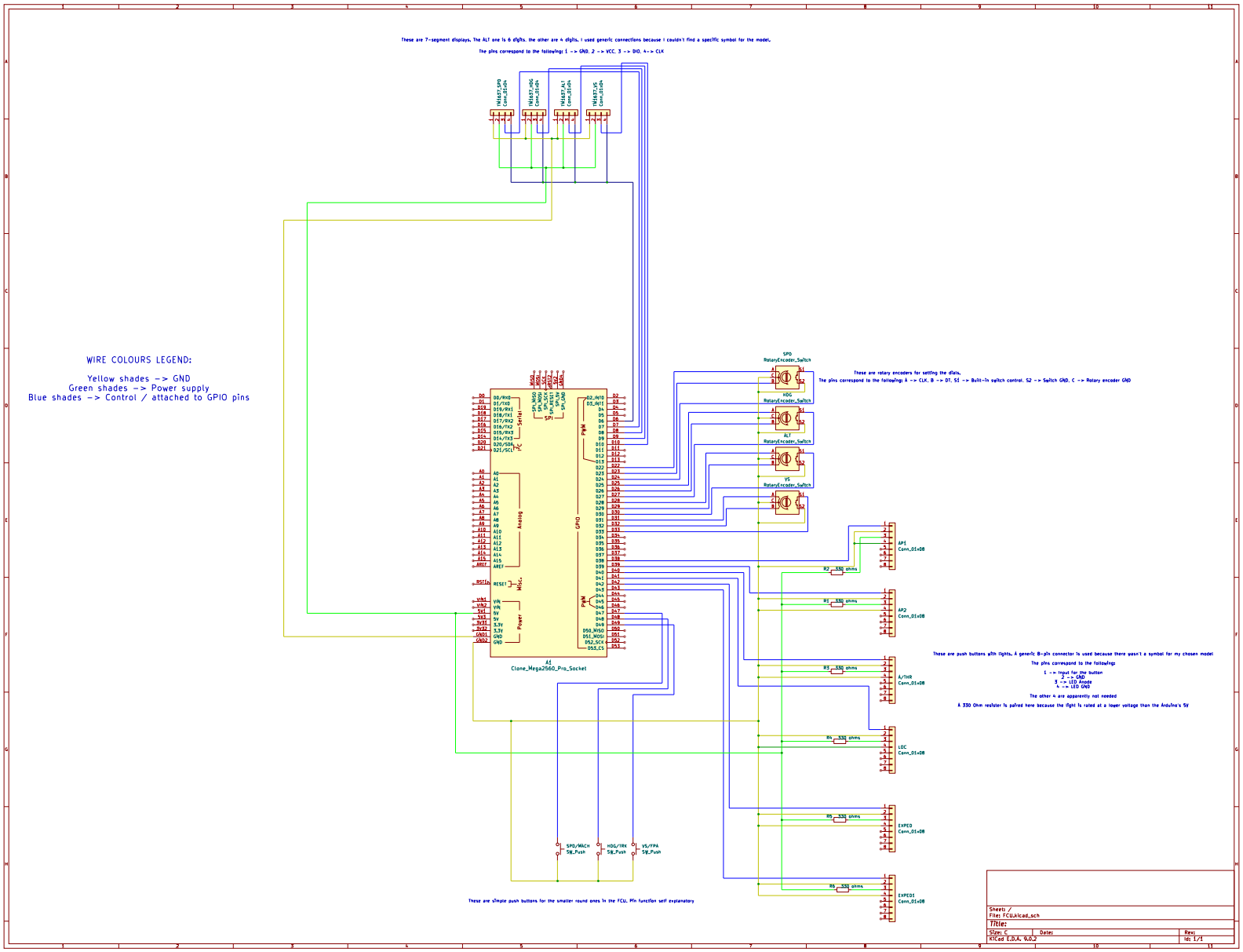
These are 7-segment displays. The ALT one is 6 digits, the other are 4 digits. I used generic connections because I couldn't find a specific symbol for the model.
The pins correspond to the following: 1 -> GND, 2 -> VCC, 3 -> DIO, 4 -> CLK
HG437_SPD
Conn_01x04
HG437_HDG
Conn_01x04
HG437_ALT
Conn_01x04
HG437_VS
Conn_01x04
WIRE COLOURS LEGEND:
Yellow shades -> GND
Green shades -> Power supply
Blue shades -> Control / attached to GPIO pins
SPD
RotaryEncoder_Switch
HDG
RotaryEncoder_Switch
ALT
RotaryEncoder_Switch
VS
RotaryEncoder_Switch
These are rotary encoders for setting the dials.
The pins correspond to the following: A -> CLK, B -> DT, S1 -> Built-in switch control, S2 -> Switch GND, C -> Rotary encoder GND
A1
Clone_Mega2560_Pro_Socket
Serial
I²C
SPI
Analog
Misc.
Power
PWM
GPIO
AP1
Conn_01x08
AP2
Conn_01x08
A/THR
Conn_01x08
LOC
Conn_01x08
EXPED
Conn_01x08
EXPEDI
Conn_01x08
R2 330 ohms
R1 330 ohms
R5 330 ohms
R4 330 ohms
R3 330 ohms
R6 330 ohms
These are push buttons with lights. A generic 8-pin connector is used because there wasn't a symbol for my chosen model
The pins correspond to the following:
1 -> Input for the button
2 -> GND
3 -> LED Anode
4 -> LED GND
The other 4 are apparently not needed
A 330 Ohm resistor is paired here because the light is rated at a lower voltage than the Arduino's 5V
SPD/MACH
SW_Push
HDG/TRK
SW_Push
VS/FPA
SW_Push
These are simple push buttons for the smaller round ones in the FCU. Pin function self explanatory
Sheets /
File: FCU.kicad_sch
Title:
Size: C
Date:
Rev:
KiCad E.D.A. 9.0.7
Id: 1/1