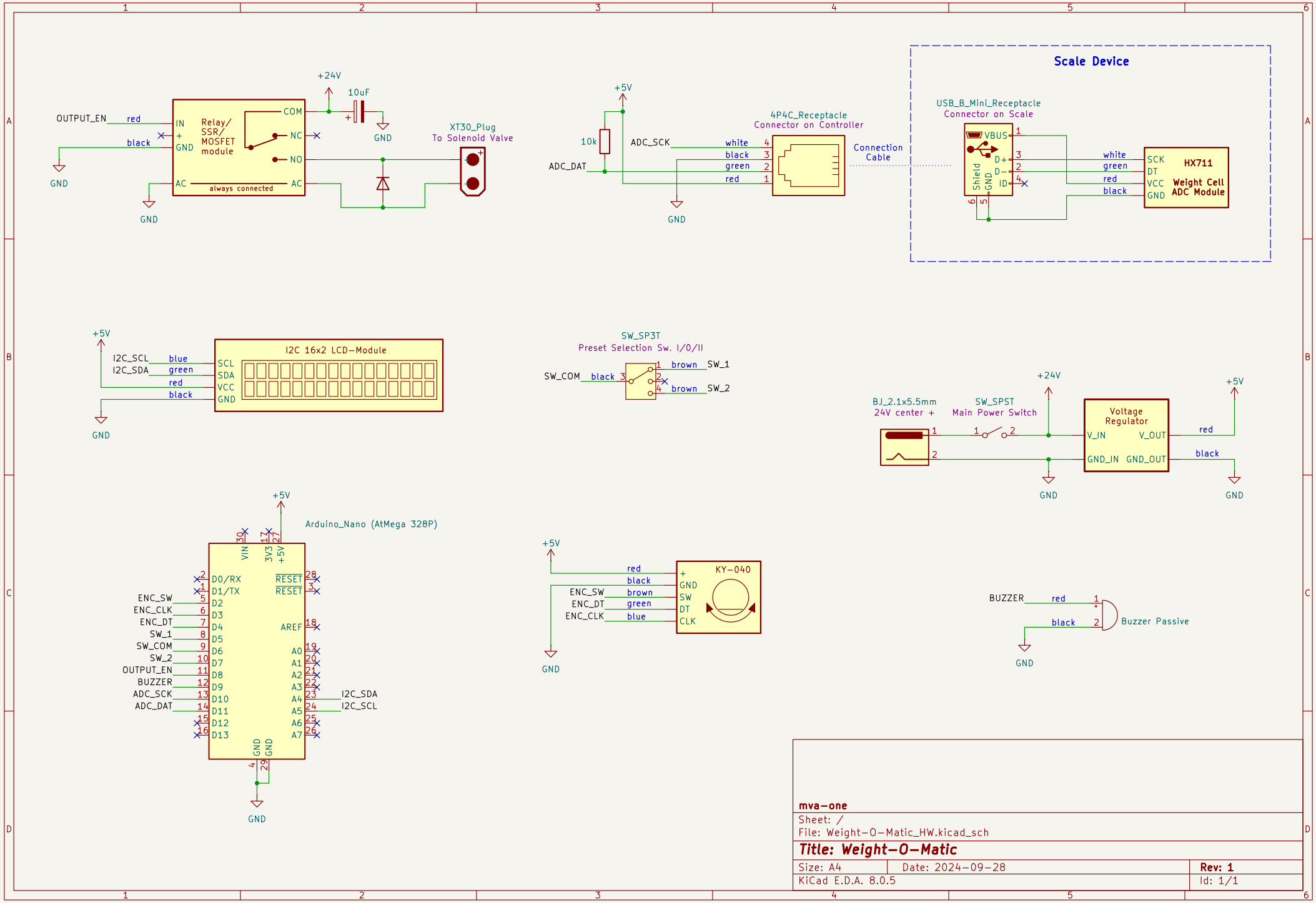
Scale Device
OUTPUT_EN
red
black
IN
+
GND
Relay/
SSR/
MOSFET
module
COM
NC
NO
AC
always connected
+24V
10uF
GND
XT30_Plug
To Solenoid Valve
+5V
10k
ADC_SCK
ADC_DAT
4P4C_Receptacle
Connector on Controller
white
black
green
red
Connection
Cable
USB_B_Mini_Receptacle
Connector on Scale
VBUS
D+
D−
ID
Shield
GND
SCK
DT
VCC
HX711
Weight Cell
ADC Module
I2C 16x2 LCD−Module
I2C_SCL
I2C_SDA
blue
SCL
SDA
VCC
SW_SP3T
Preset Selection Sw. I/O/II
SW_COM
brown
SW_1
SW_2
BJ_2.1x5.5mm
24V center +
SW_SPST
Main Power Switch
Voltage
Regulator
V_IN
V_OUT
GND_IN
GND_OUT
Arduino_Nano (AtMega 328P)
VIN
3V3
+5V
D0/RX
D1/TX
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
RESET
AREF
A0
A1
A2
A3
A4
A5
A6
A7
ENC_SW
ENC_CLK
ENC_DT
SW_1
SW_COM
SW_2
OUTPUT_EN
BUZZER
ADC_SCK
ADC_DAT
KY−040
CLK
DT
SW
BUZZER
Buzzer Passive
mva−one
Sheet: /
File: Weight−O−Matic_HW.kicad_sch
Title: Weight−O−Matic
Size: A4
Date: 2024−09−28
Rev: 1
KiCad E.D.A. 8.0.5
Id: 1/1