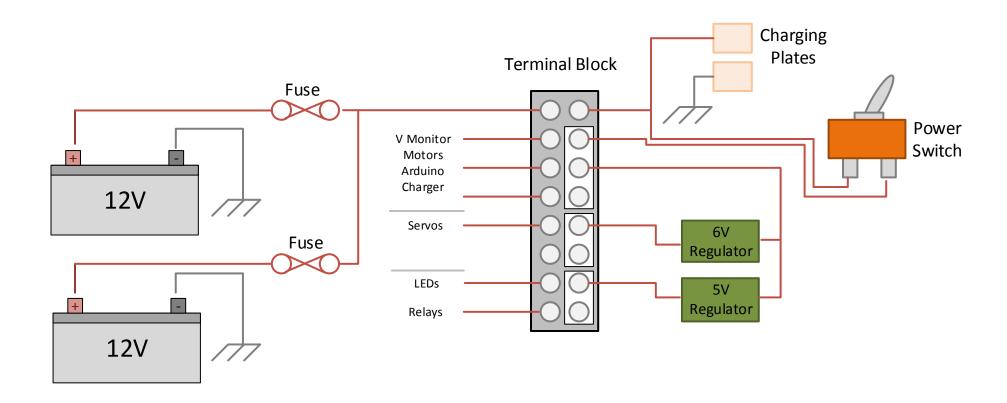


RP2W General Schematic - Power

© SuperDroid Robots www.SuperDroidRobots.com





RP2W General Schematic - Controls

© SuperDroid Robots www.SuperDroidRobots.com

1 2 3

000

Relay Digital Inputs

- 1 Channel 1 Arduino Pin 27
- 2 Channel 2 Arduino Pin 29
- 3 Channel 3 Arduino Pin 31
- 4 Channel 4 Arduino Pin 33
- 5 Channel 5 Unused
- 6 Channel 6 Unused
- 7 Channel 7 Unused

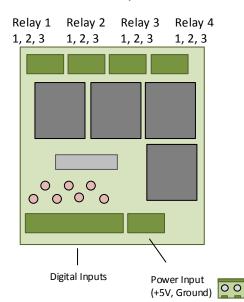


Relay Outputs

- 1 Common
- 2 Normally Closed
- 3 Normally Open

*NOTE: Relays are rated for 5V

SDR 4 Relay Board



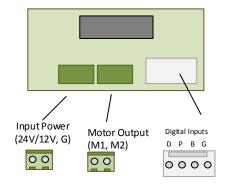
PWM Digital Inputs Left

D – Direction (D4, Blue)
P – Pulse (D5, Orange)
B – Brake (Unused)
G – Ground (Unused)

PWM Digital Inputs Right

D – Direction (D2, White)
P – Pulse (D3, Yellow)
B – Brake (Unused)
G – Ground (Unused)

SDR PWM Motor Controller



NOTE: Motor outputs are reverse on left motor

Misc Sensors

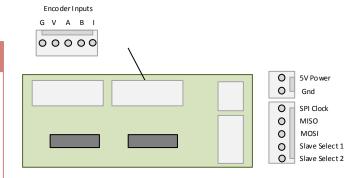
Voltage Monitor – AN1 (10k-1k voltage divider)

Front Sonar – AN2 Rear Sonar – AN3

Bumper – AN3 (10k pull-up)

Encoder Interface

SPI Clock - (Orange)
MISO - (Yellow)
MOSI - (Green)
SS1 - (D47, Brown)
SS2 - (D49, Grey)



Encoder Buffer