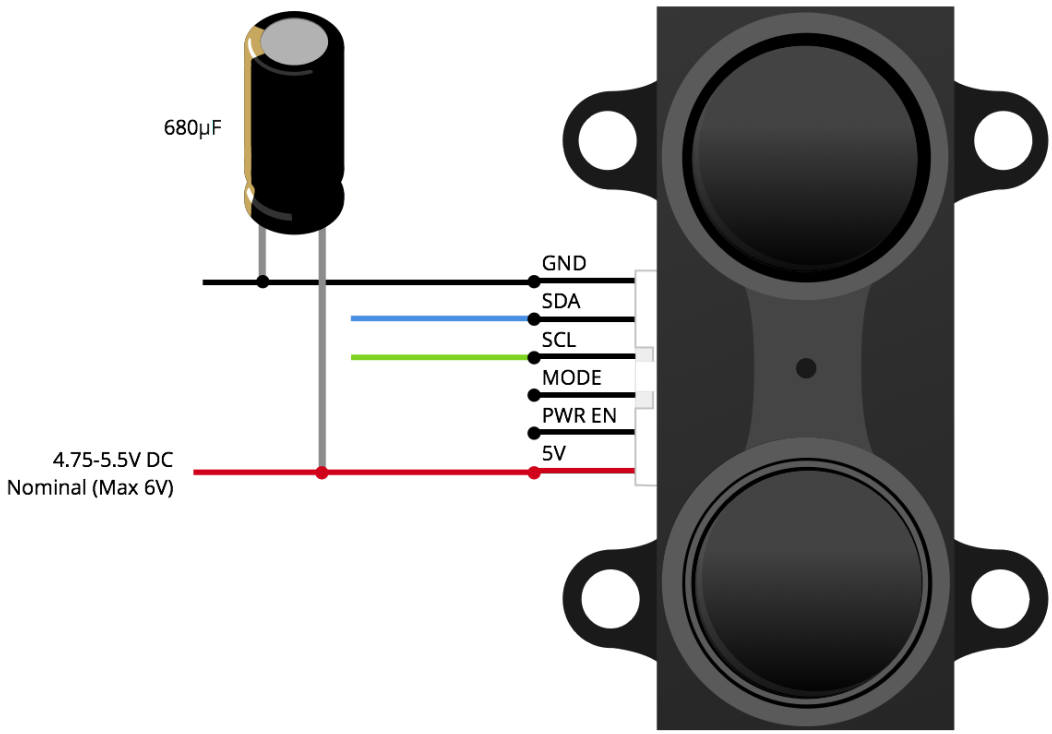
Connection Setup for I2C and PWM

There are two basic configurations for LIDAR-Lite

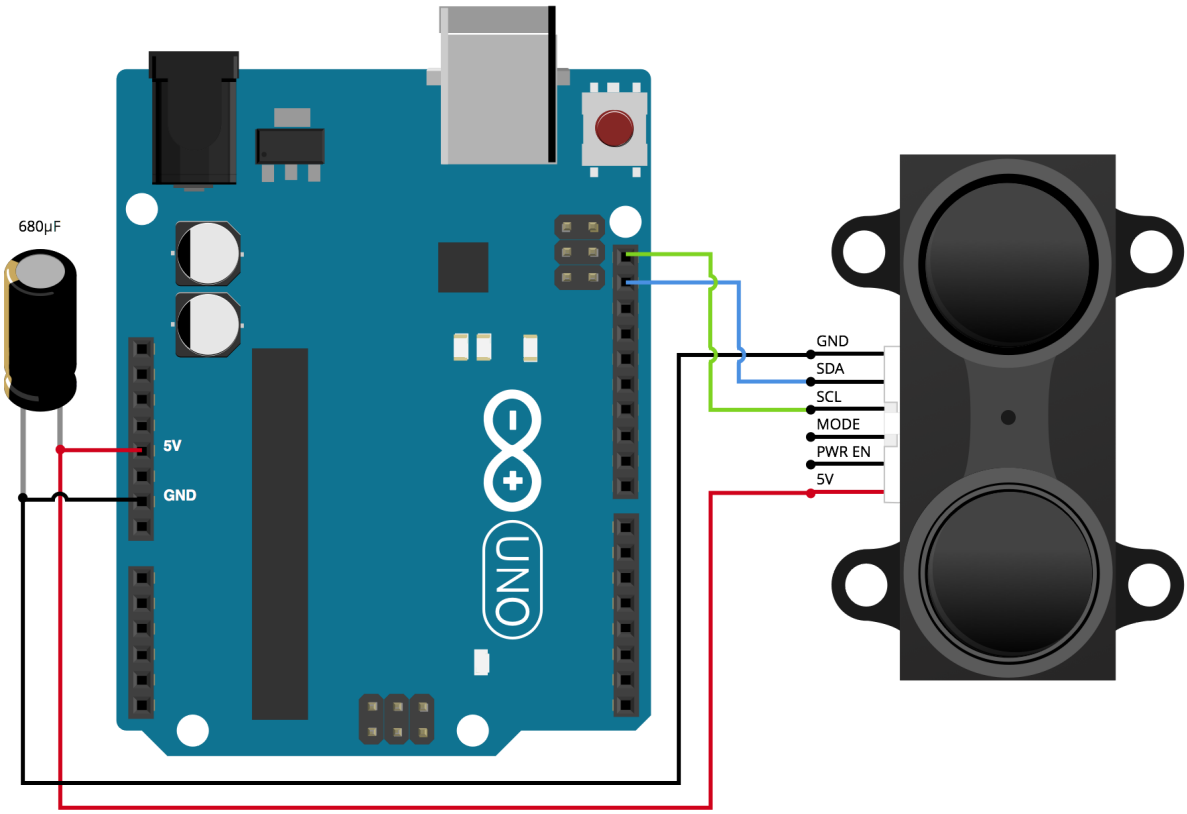
I2C Wiring



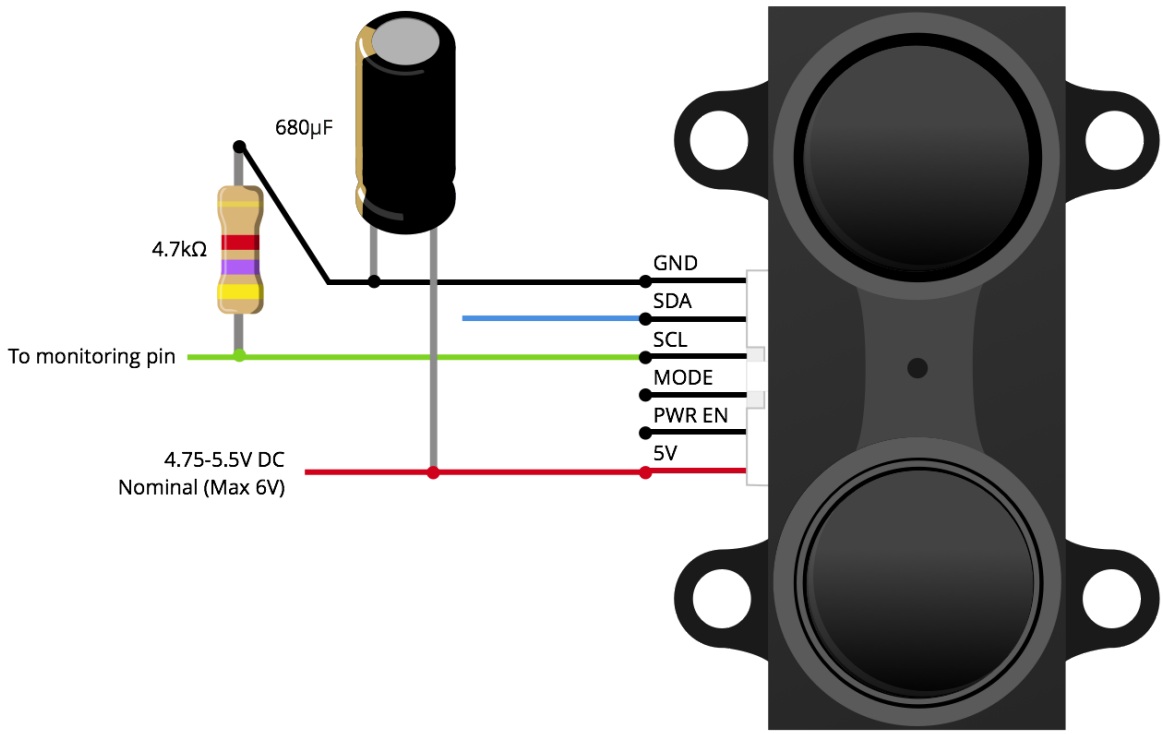
1. Connect power and ground pins. The sensor operates at 4.75-5.5V DC Nominal, Maximum 6V DC.
2. Place a 680µF Electrolytic Capacitor between 5V and GND
3. Connect I2C SCL/SDA pins.

Arduino I2C Connection

Connect the Arduino like the image below. *Be sure that the polarity of the elctrolytic capcitor is correct.*



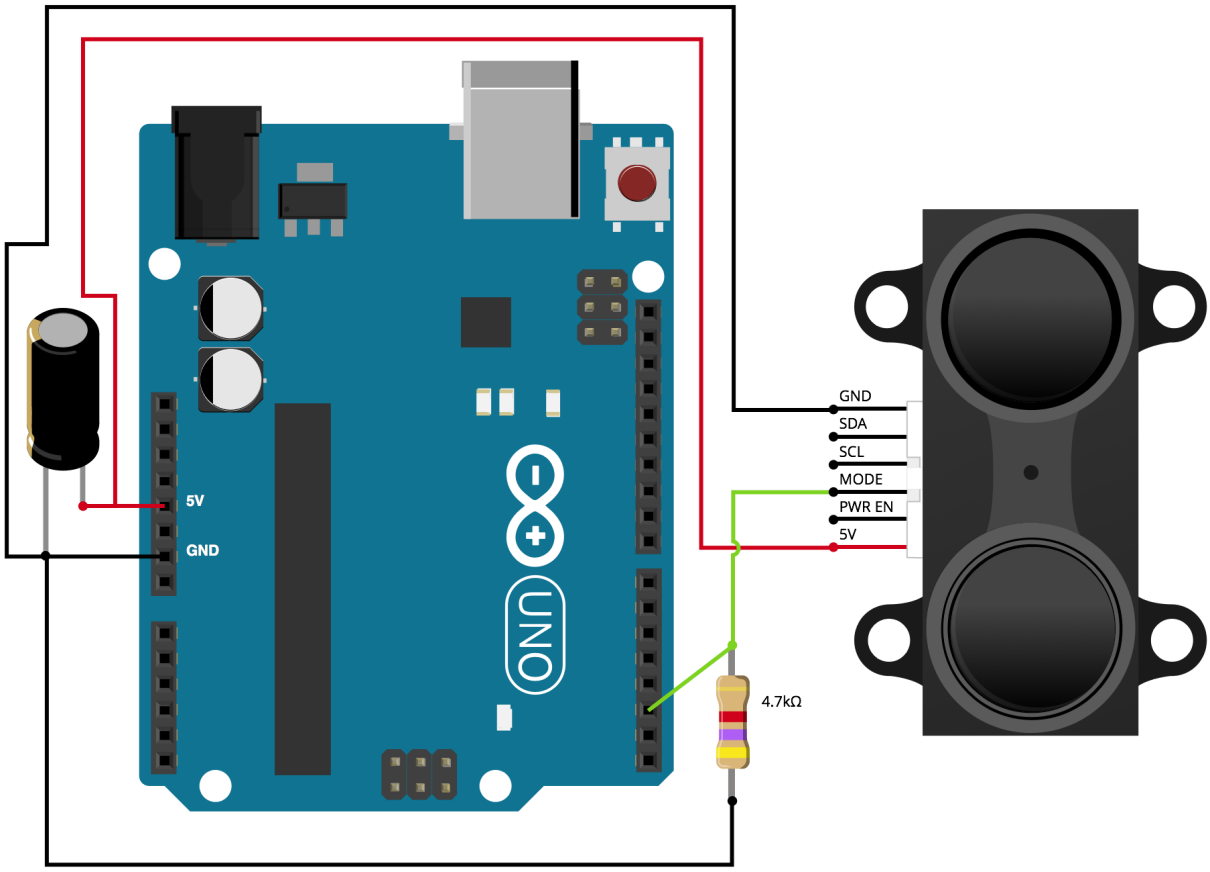
Continuous Mode Wiring



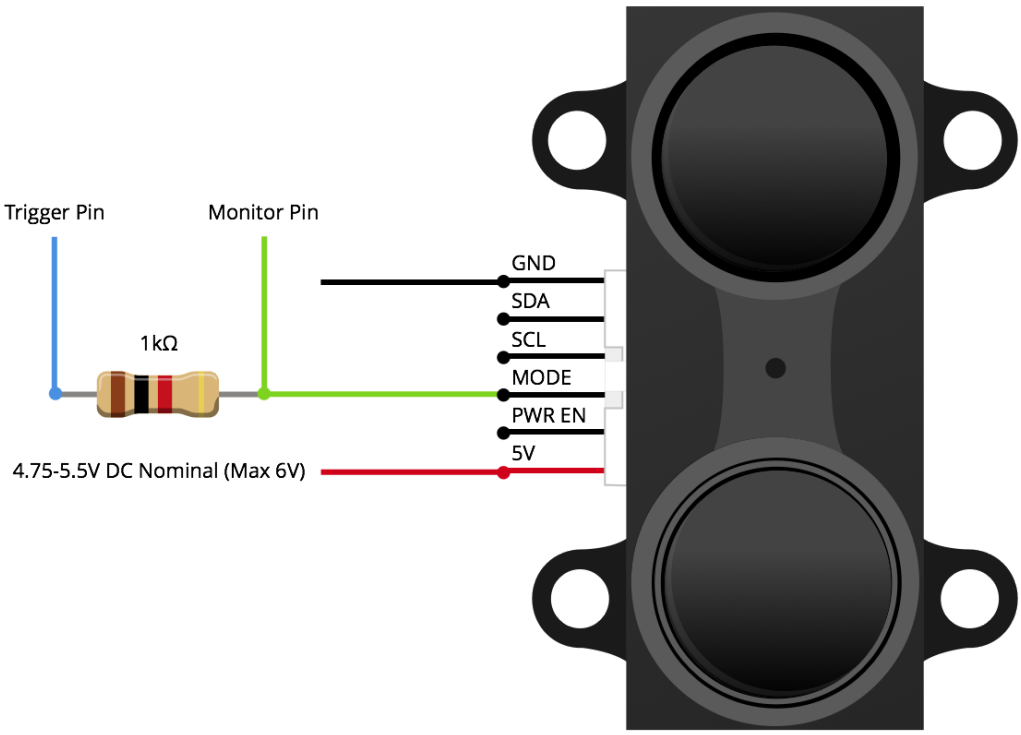
1. Connect power and ground pins. The sensor operates at 4.75-5.5V DC Nominal, Maximum 6V DC.
2. Place a 680µF Electrolytic Capacitor between 5V and GND
3. Connect I2C SCL/SDA pins.
4. Connect the MODE pin to a 4.7kΩ resistor and to a monitoring pin on your microcontroller
5. Connect the other side of the 4.7kΩ resistor to ground.

Arduino I2C Connection

Connect the Arduino like the image below. *Be sure that the polarity of the elctrolytic capcitor is correct.*



PWM Wiring



1. Connect power and ground pins. The sensor operates at 4.75-5.5V DC Nominal, Maximum 6V DC.
2. Connect the MODE pin to a 1kΩ resistor and the monitor pin
3. Connect the other side of the 1kΩ resistor to the trigger pin

Arduino PWM Connection

Connect the Arduino like the image below. Pin #2 is the Trigger Pin and Pin #3 is the Monitor Pin.