



PhotoResistor analog to digital port sampling

XBee REPL Console

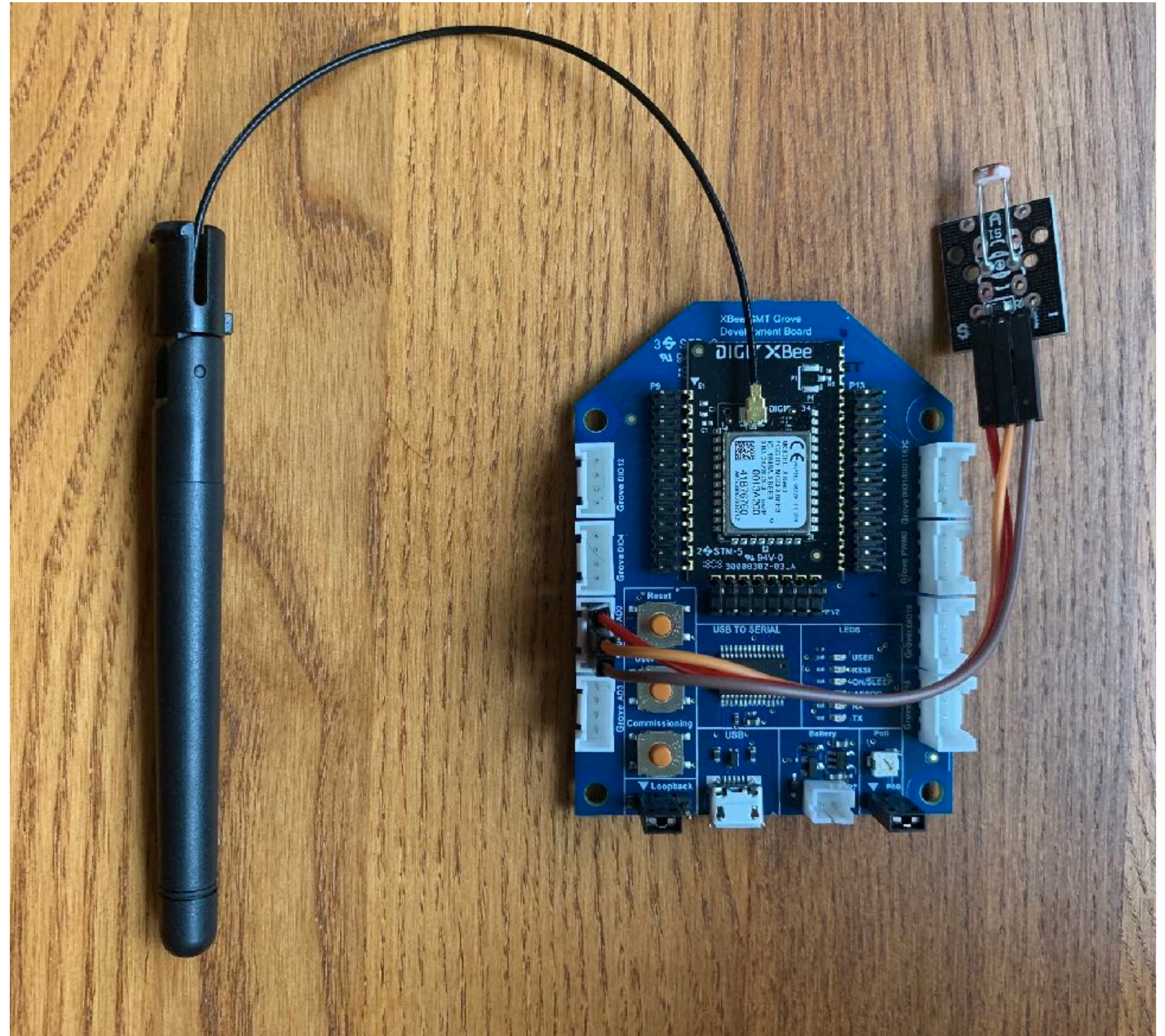
 **Selected XBee device:** /dev/tty.usbserial-AB0JVOG7 - 115200/8/N/1/N

 PhotoResistor value: 50
Original ADC value: 2017

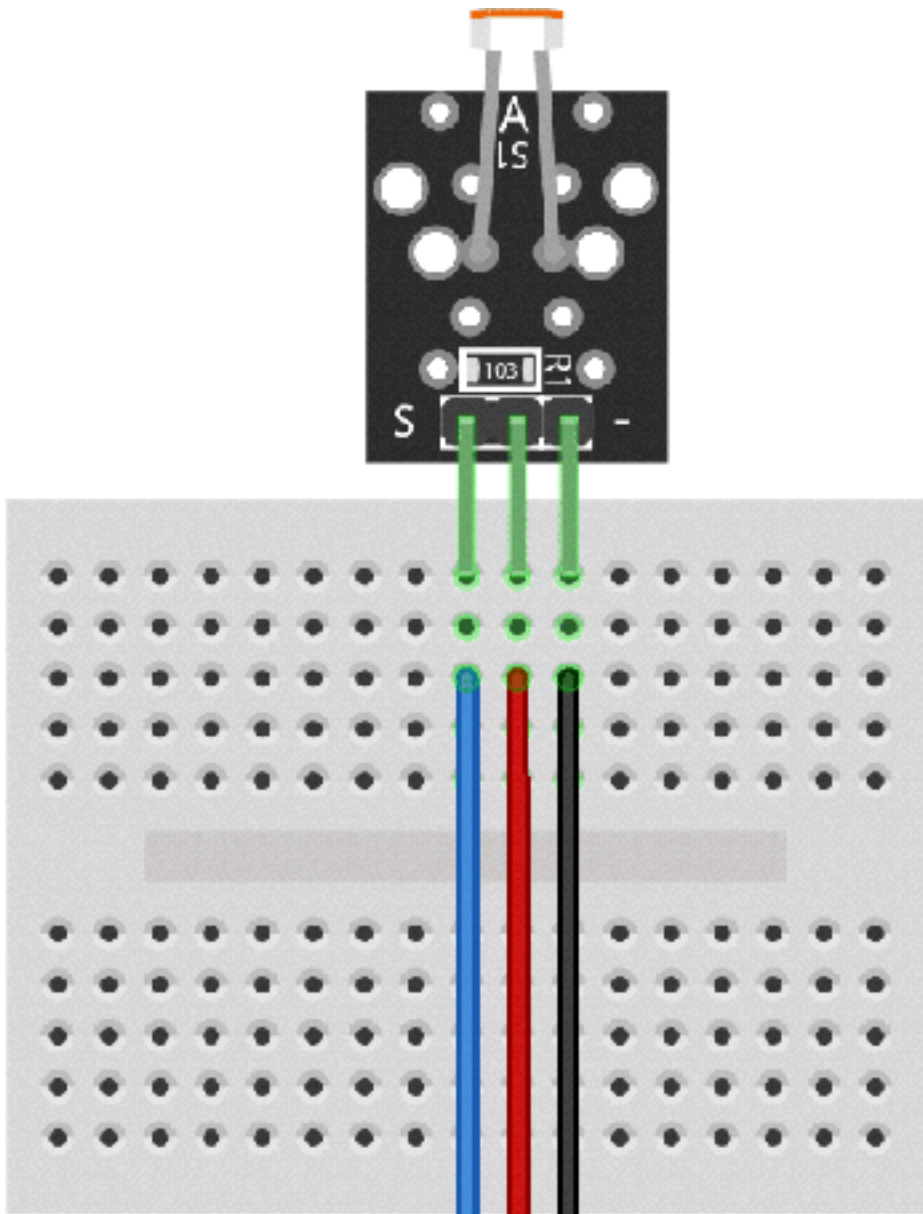
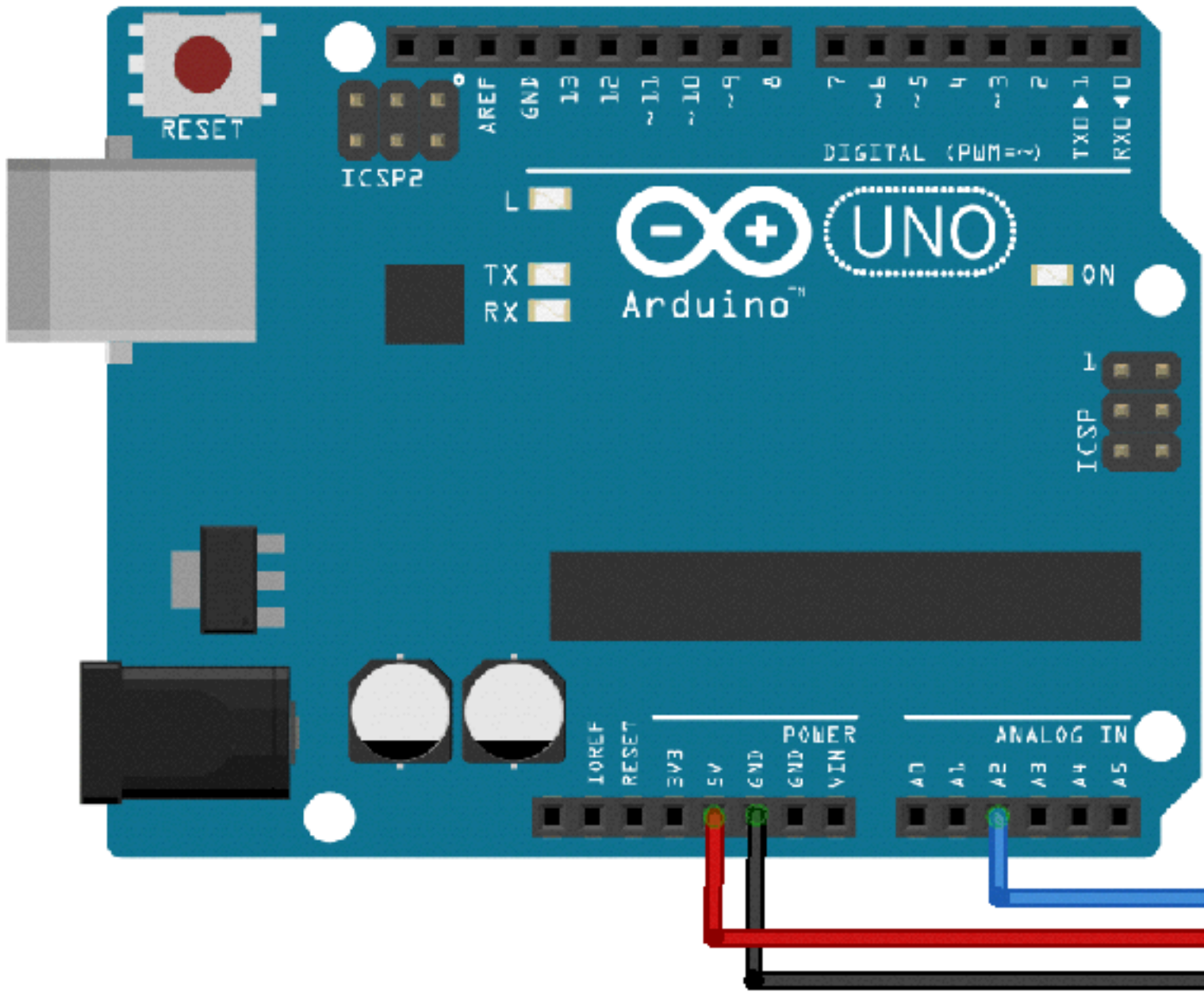
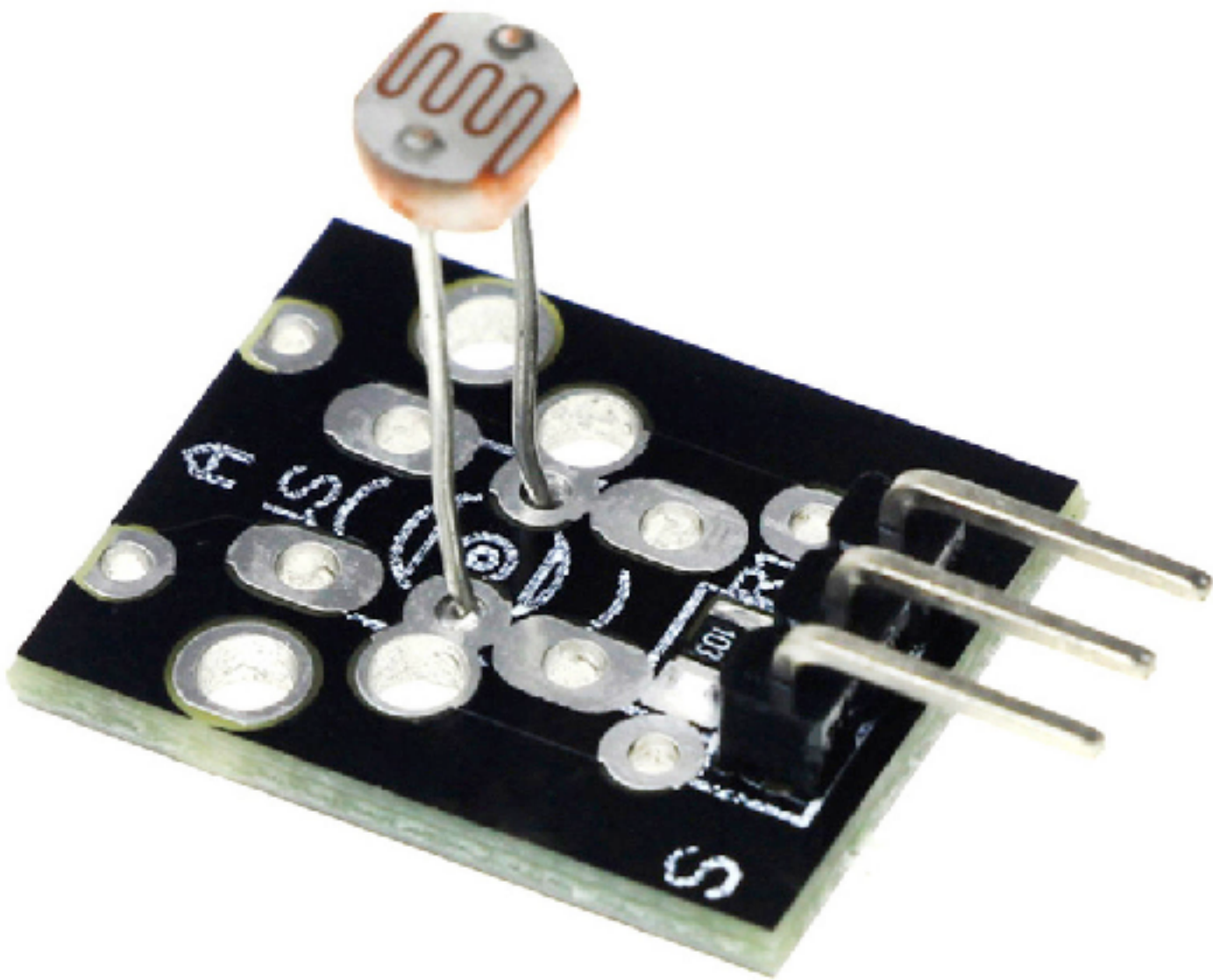
 PhotoResistor value: 47
Original ADC value: 2137

PhotoResistor value: 48
Original ADC value: 2129

PhotoResistor value: 48
Original ADC value: 2115



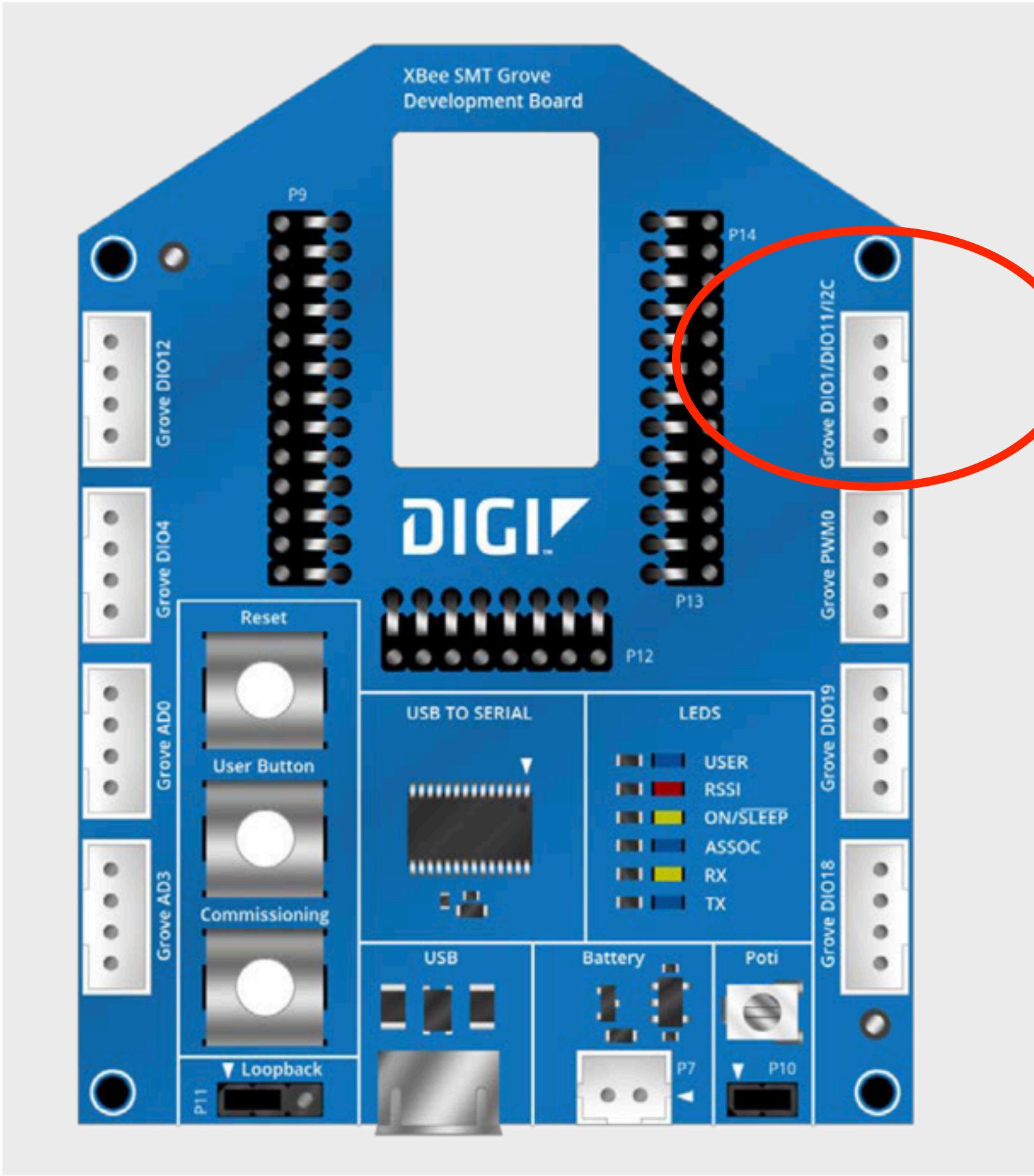
KY-018 Photoresistor



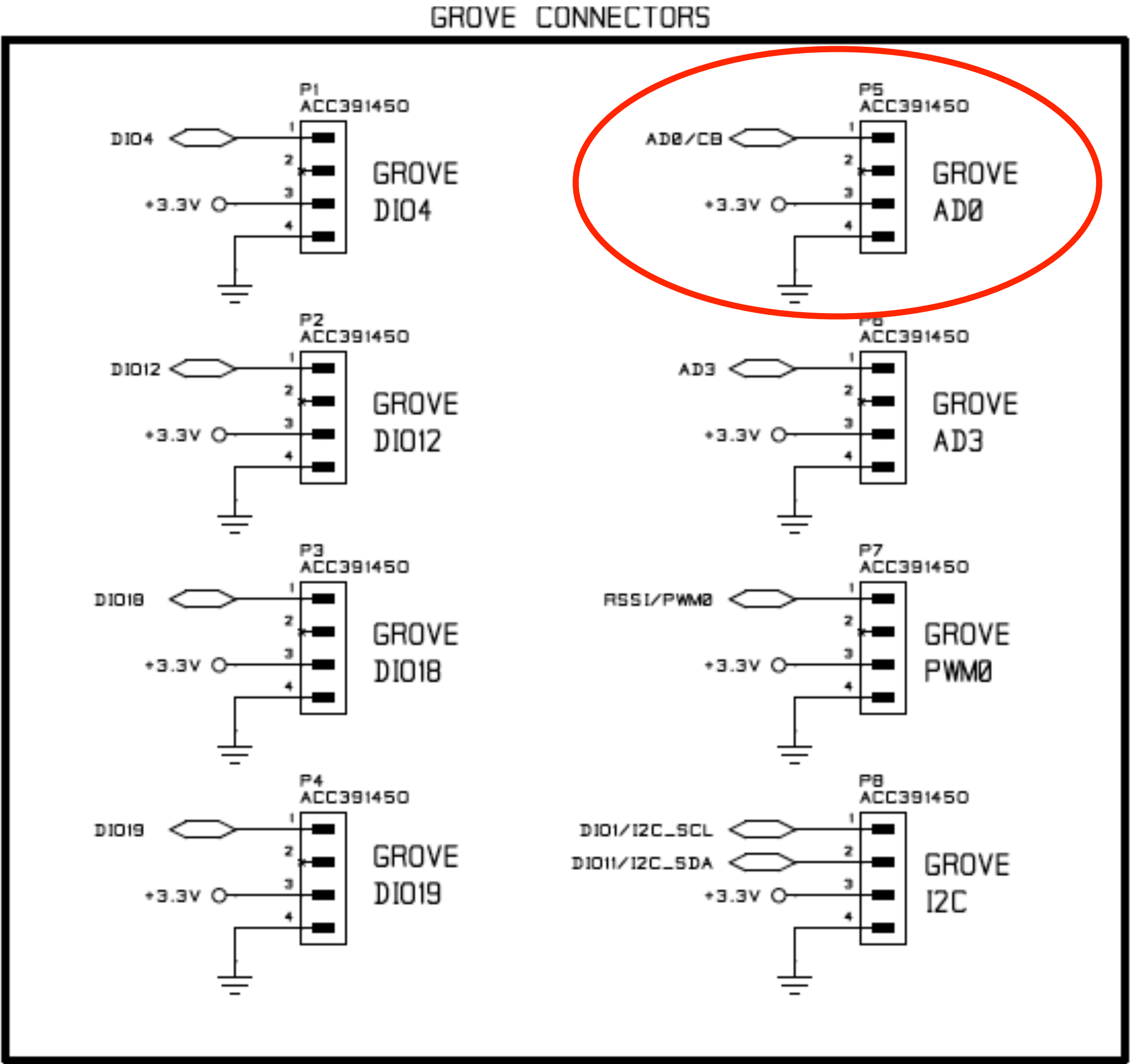
fritzing

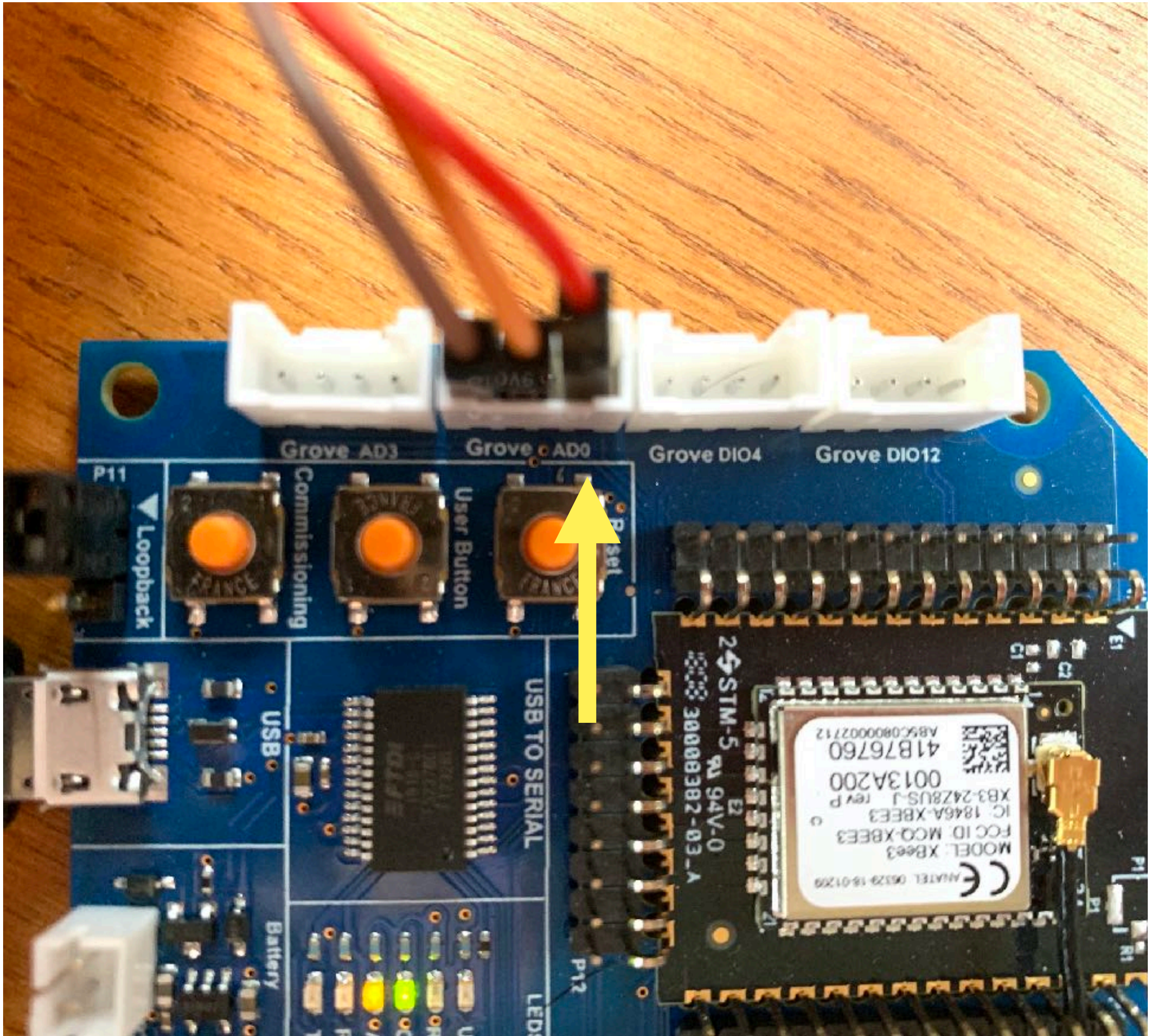
KY-018	Arduino
S	Pin A2
middle	+5V
-	GND
Operating Voltage	3.3V to 5V
Output Type	Analog

SMT Schematic

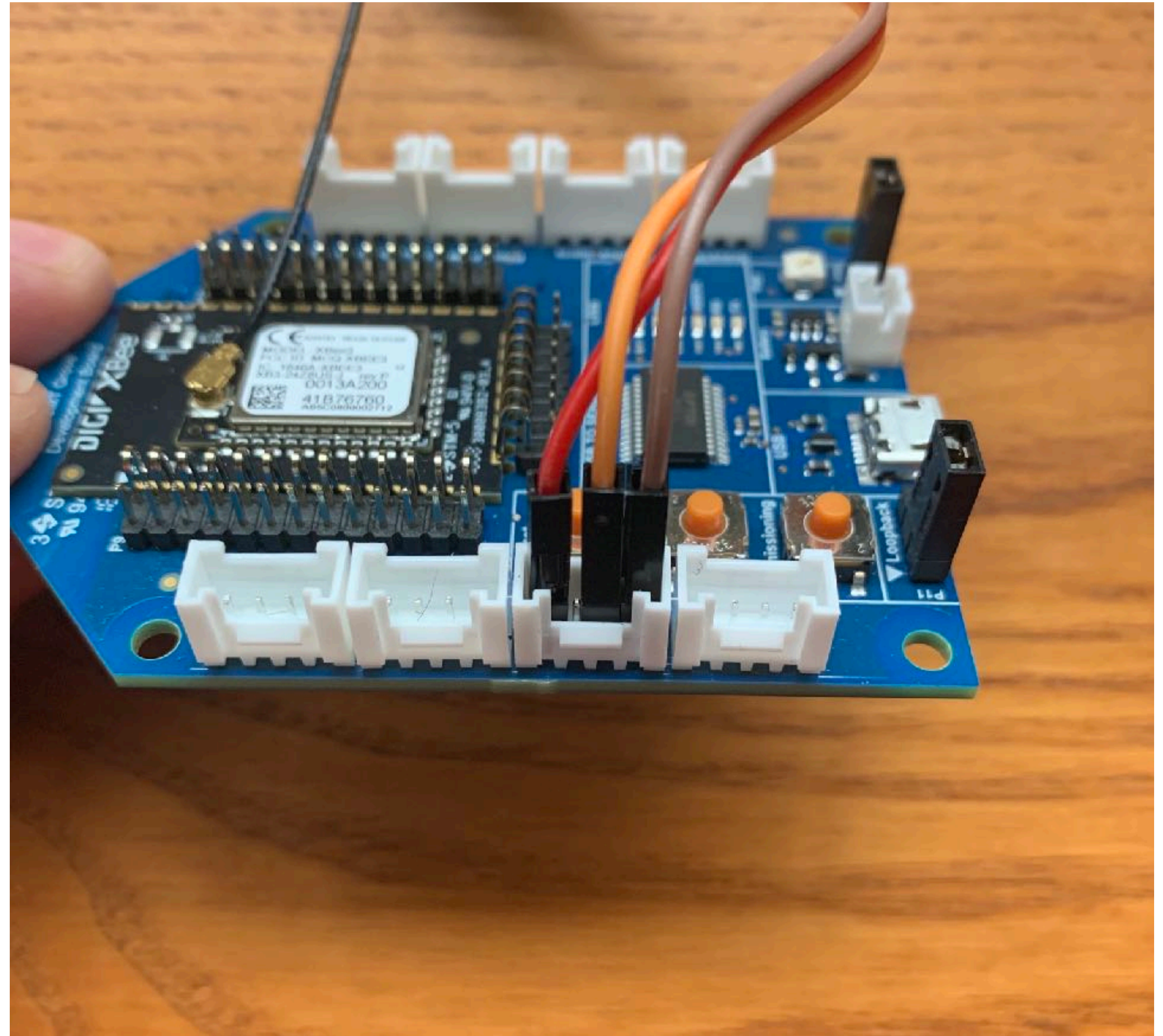
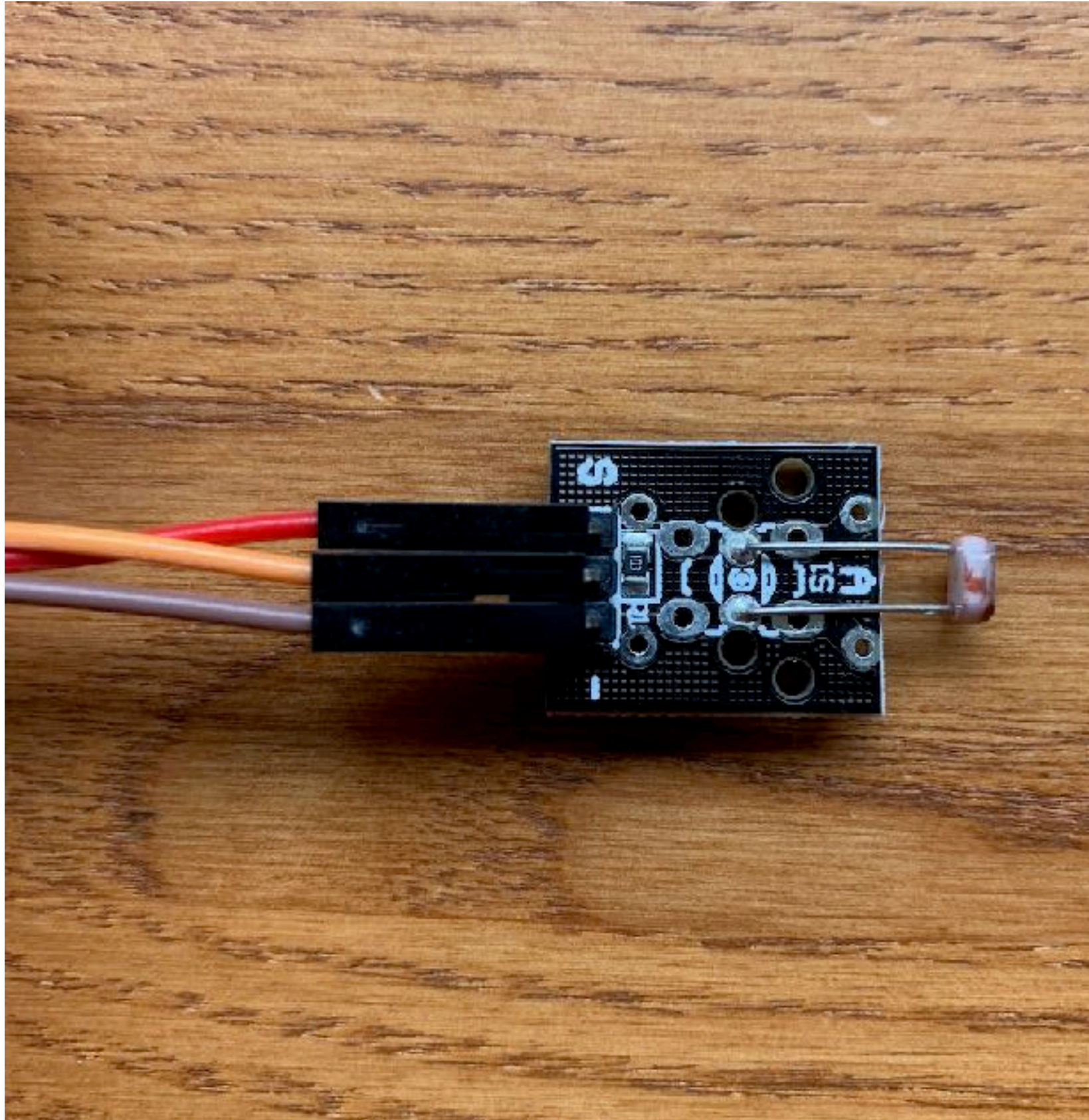


Not Correct

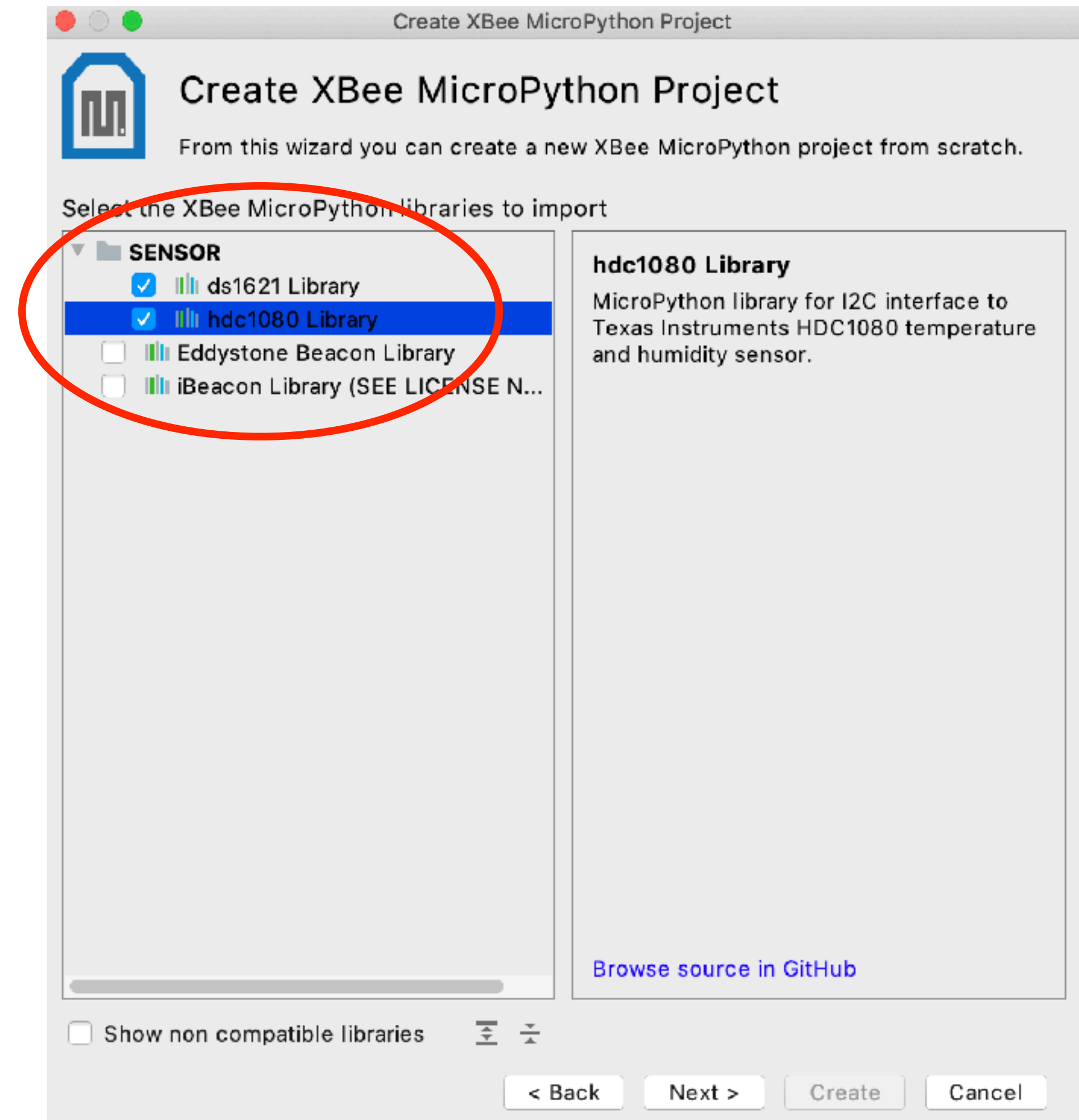
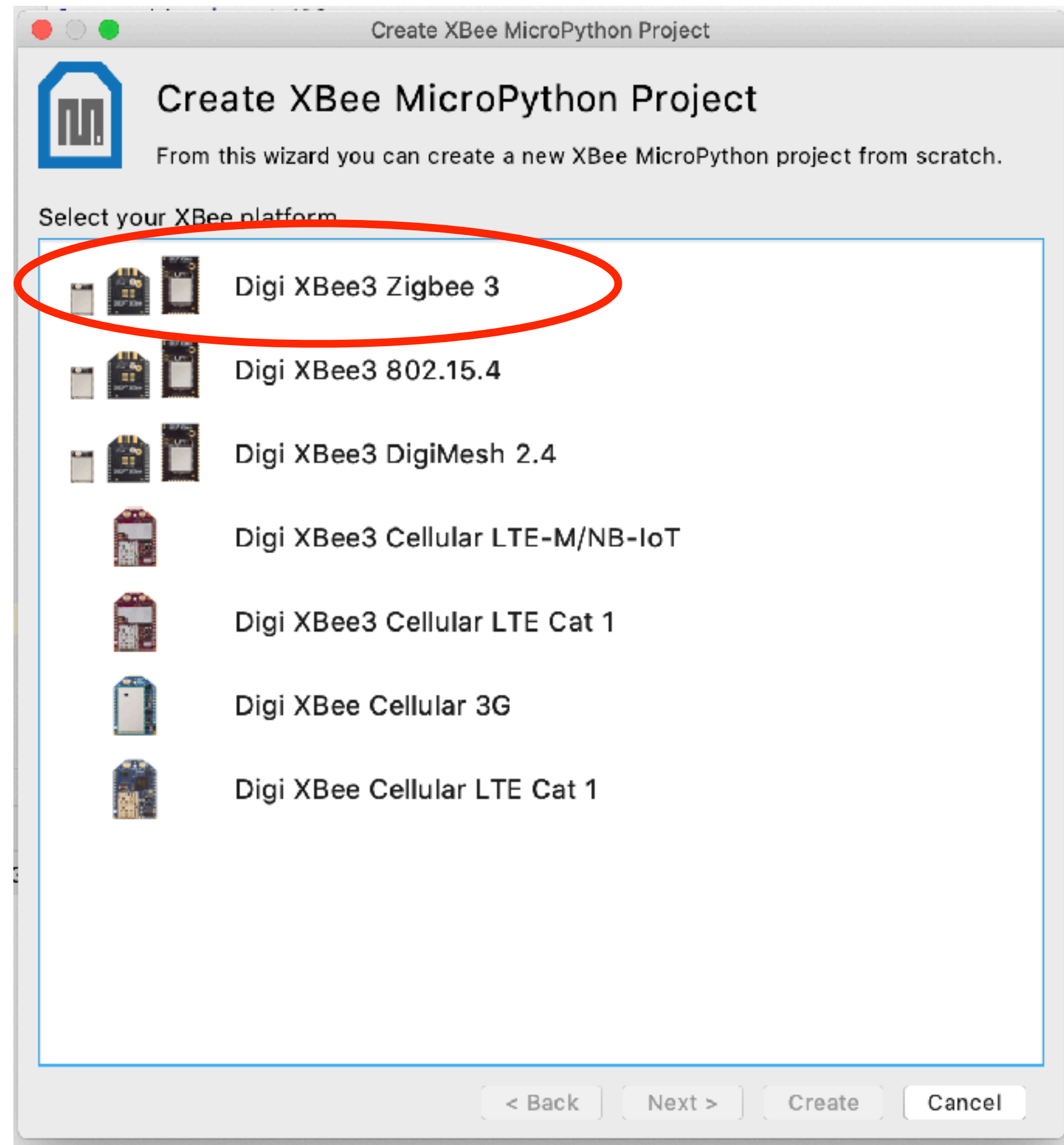




Jumper wiring



Project setup



Micropython Code

```
main.py x
1  from machine import Pin
2  from machine import ADC
3  import time
4
5  help(Pin.board)
6
7  ad0 = Pin("D0", Pin.IN, Pin.PULL_UP)
8
9  print("\nCreating an ADC object for pin AD0...")
10
11  adc0 = ADC("D0")
12
13  print("Reading the ADC value on the pin...")
14
15  for i in range(0, 100):
16
17      adc_value = (((adc0.read()/4095)*100)-100)*-1
18      adc_value2 = adc0.read()
19      print("PhotoResistor value: %d" % adc_value)
20      print("Original ADC value: %d\n" % adc_value2)
21      time.sleep(1.5)
22
```