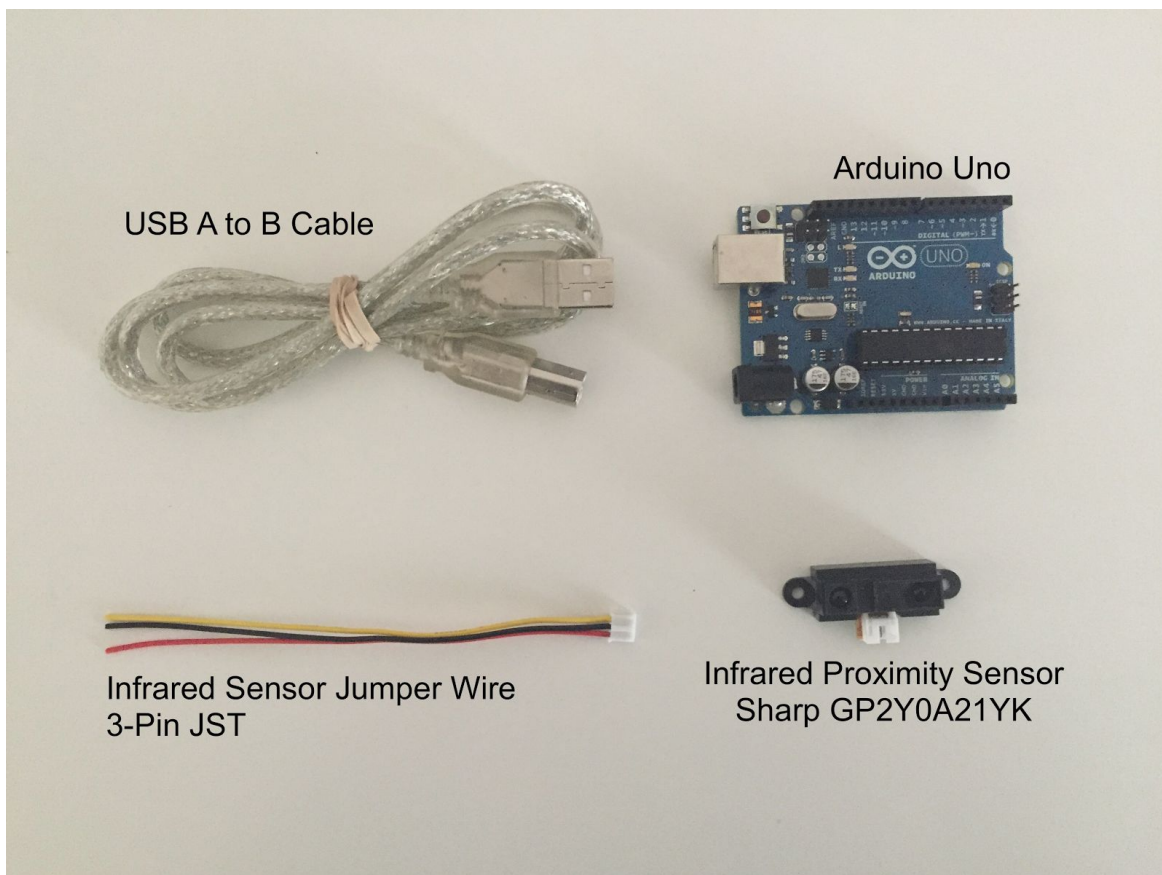# Setting Up the Infrared Proximity Sensor with an Arduino Uno Board

Parts needed
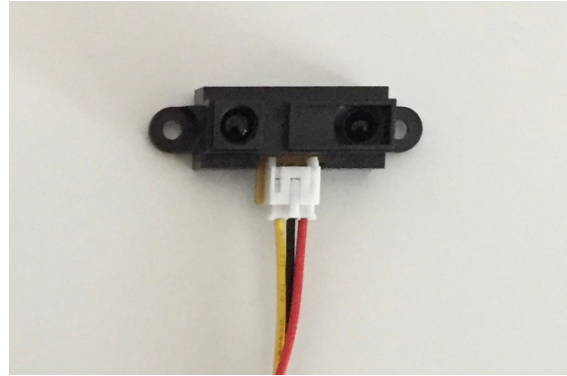
- Arduino Uno Board
- USB A to B Cable
- Infrared Proximity Sensor - Sharp GP2Y0A21YK
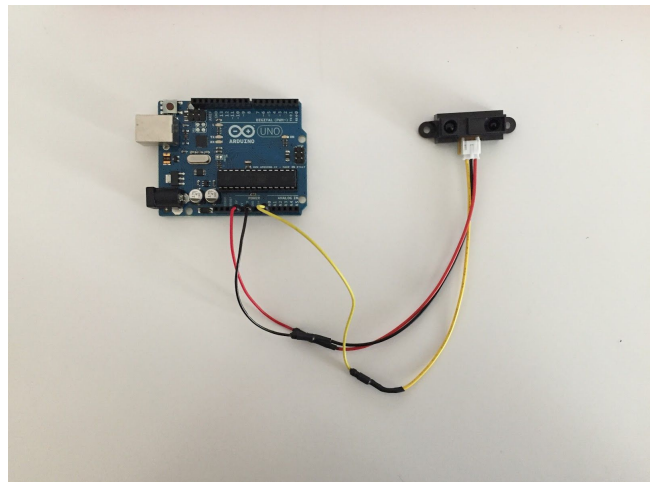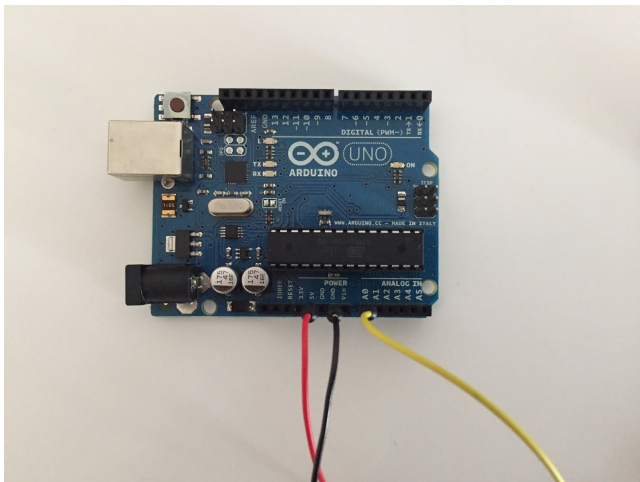- Infrared Sensor Jumper Wire - 3-Pin JST

Steps

1. Insert the **Infrared Sensor Jumper Wire** into the **Infrared Proximity Sensor.**
Note that the yellow wire will be on the leftmost side of the sensor and the red wire will be on the rightmost side of the sensor.
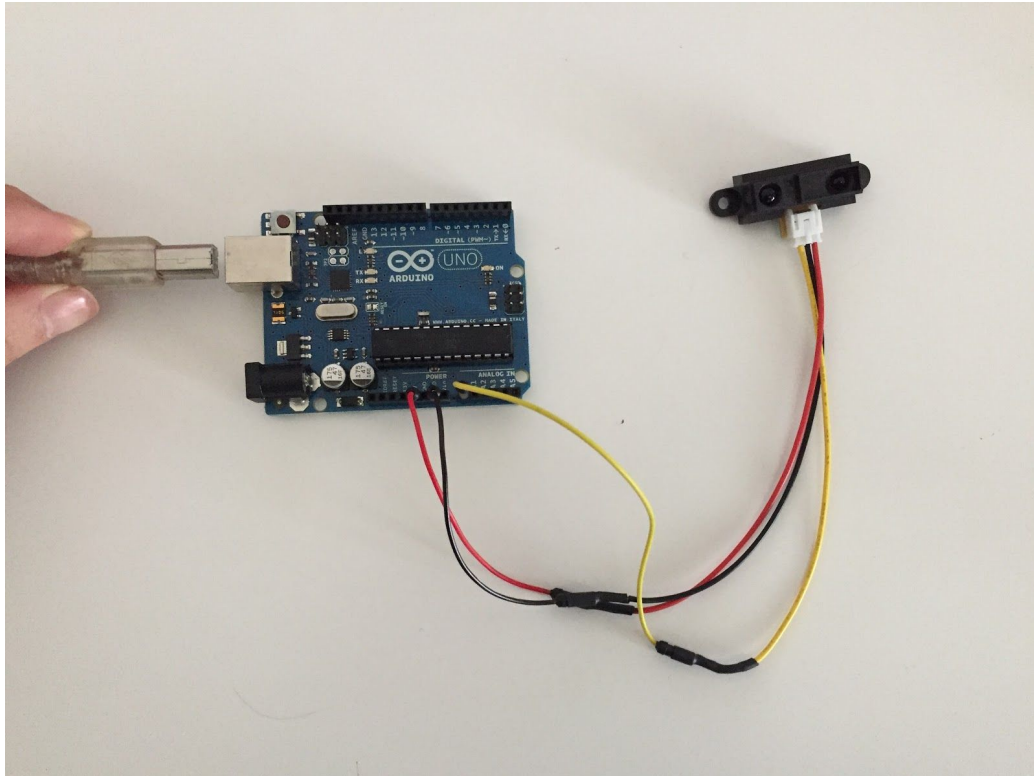

2. Insert the **Infrared Sensor Jumper Wire** into the **Arduino Uno** board as follows:
   ● **Red** into the **5V pin**
   ● **Black** into the **GND pin**
   ● **Yellow** into the **A0 pin**

3. Insert the **USB cable** into the USB port of the **Arduino Uno** board.

Insert the other end of the USB cable into the USB port of the PC.

See Also

- [Loading the Infrared Proximity Sensor Firmware to an Arduino Uno Board](#)
- Purchase the **Infrared Proximity Sensor - Sharp GP2Y0A21YK** at https://www.sparkfun.com/products/242
- Purchase the **Infrared Sensor Jumper Wire - 3-Pin JST** at https://www.sparkfun.com/products/8733