# Adding an IR Distance Sensor
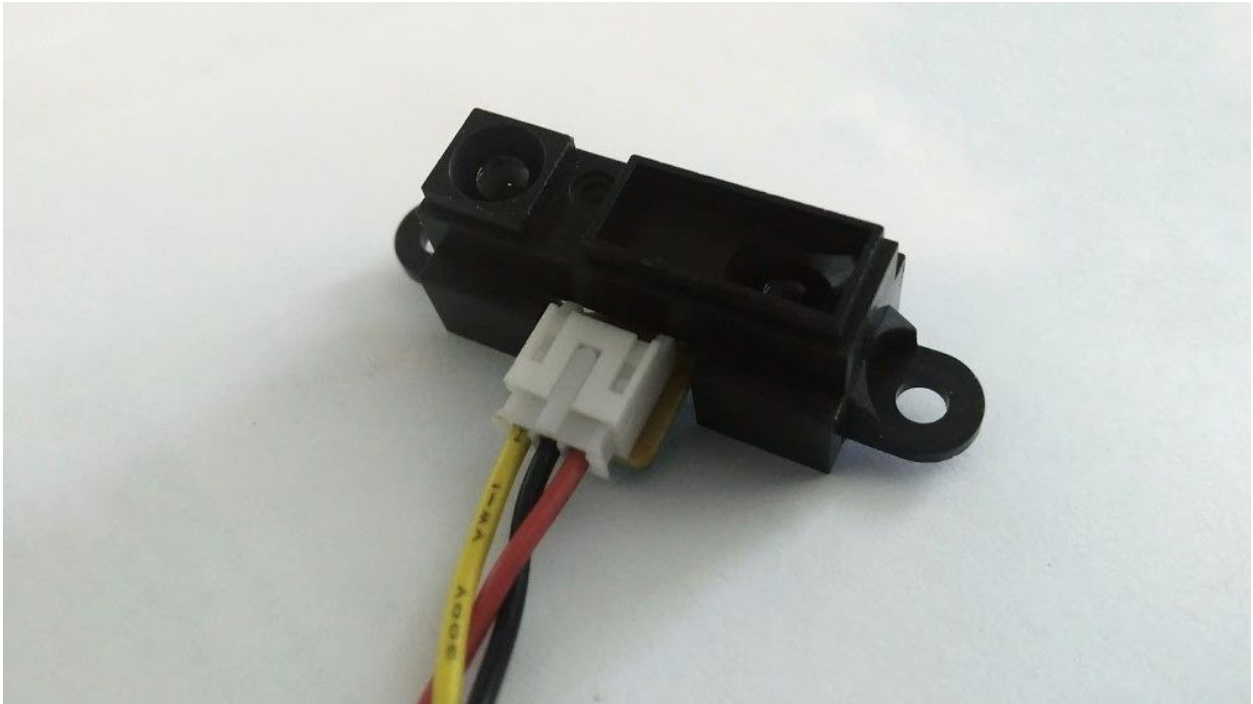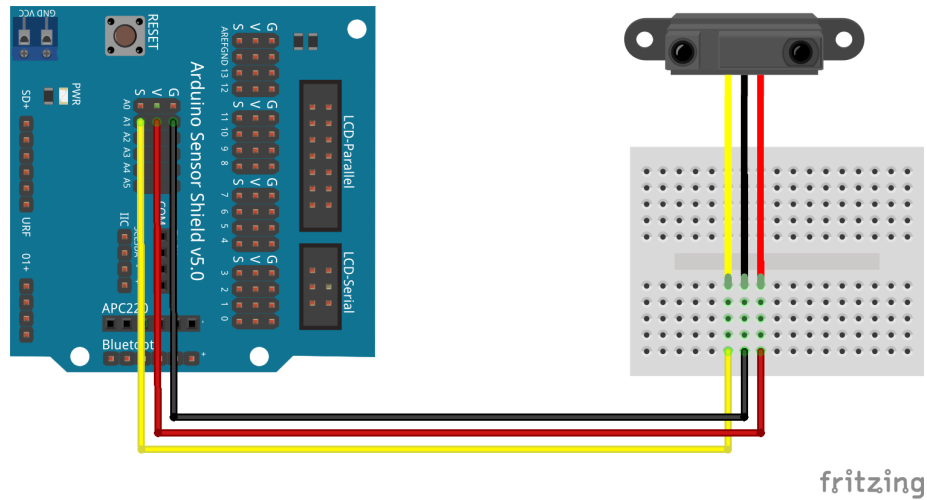


**Parts Required:**

1 - Assembled Make-A-Pede
1 - IR distance sensor (e.g. Sharp GP2Y0A41SK0F)
1 - IR distance sensor connector with header wires

# Wiring

Connect the sensor to your Make-A-Pede using the circuit shown below.  Usually the 5V wire will be red, the GND wire will be black, and the signal wire will be white/yellow.



# Testing

Plug your Arduino into your computer.  Open the RangefinderDemo.ino program by opening the Arduino IDE and going to File → Examples → Make-A-Pede → RangefinderDemo. Load the program onto your Arduino.

Turn on the Make-A-Pede and it will begin to drive around and try to avoid obstacles.