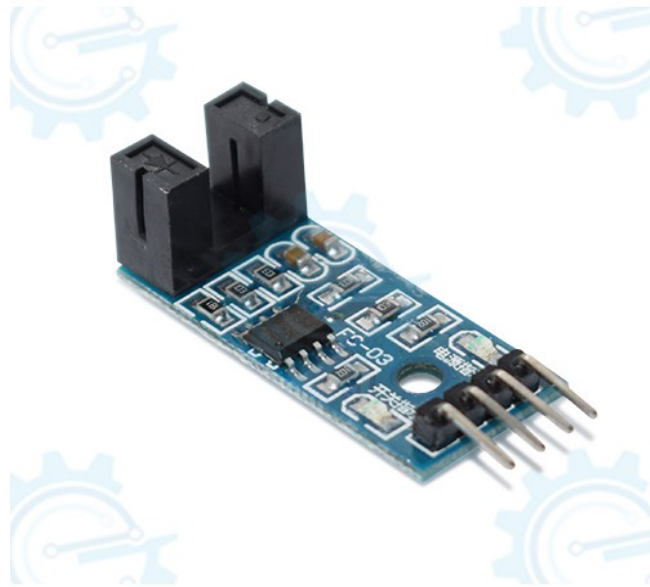


IR Speed Sensor Module

Technical Manual Rev 1r0



IR Speed Sensor module is widely used in dynamo speed detecting, pulse counting. With Digital switch output (0 and 1) and an Analog for sensitivity. Compatible in all gizDuino/ Arduino/ Microcontroller boards.

General Specifications:

Input Supply Voltage: 3.3 to 5VDC

Output: Digital 0 - no detect; 1 - detected
Analog (sensitivity)

Weight: 8g

Dimensions: 38mm x 14mm x 12mm

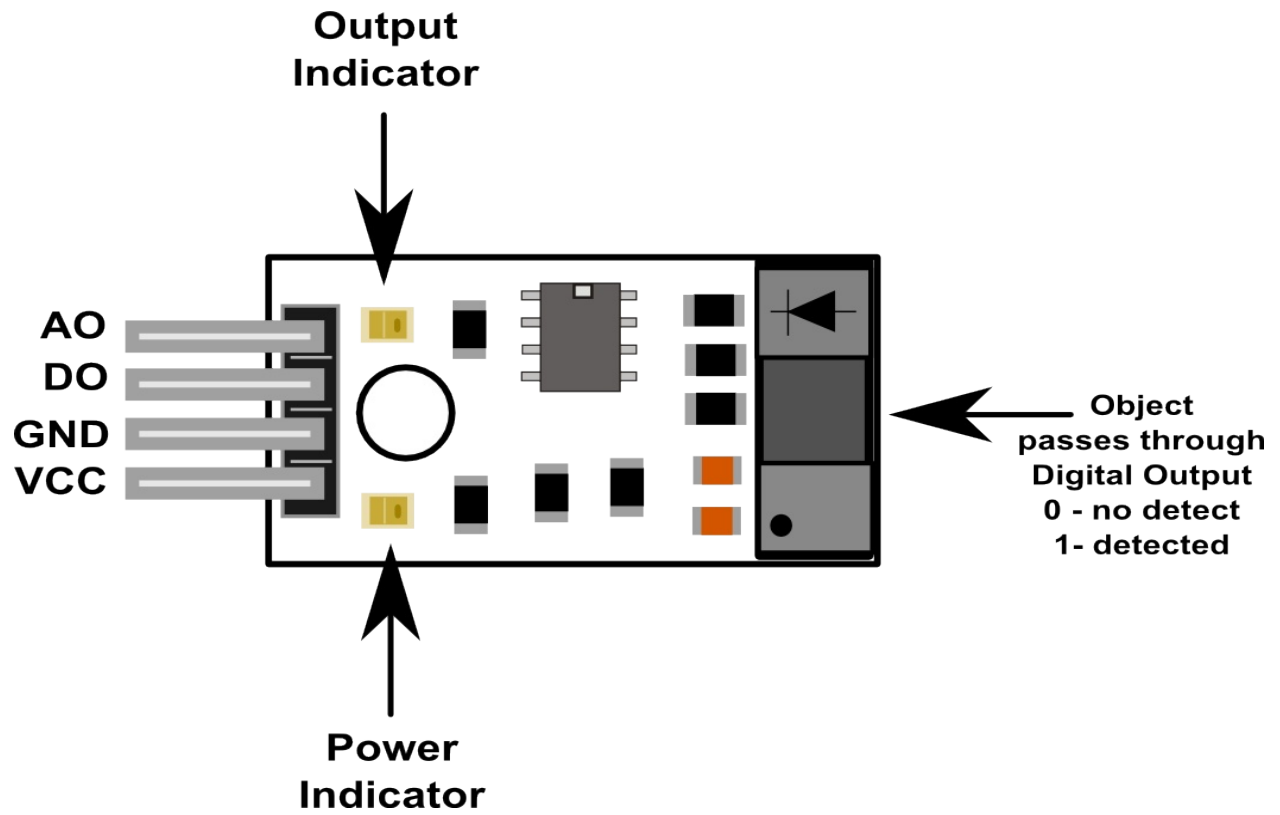


Figure 1. PCB Major Presentation

Wiring connections

gizduino	Speed sensor
+5V	-----> VCC
GND	-----> GND
D2	-----> DO
A0	-----> AO

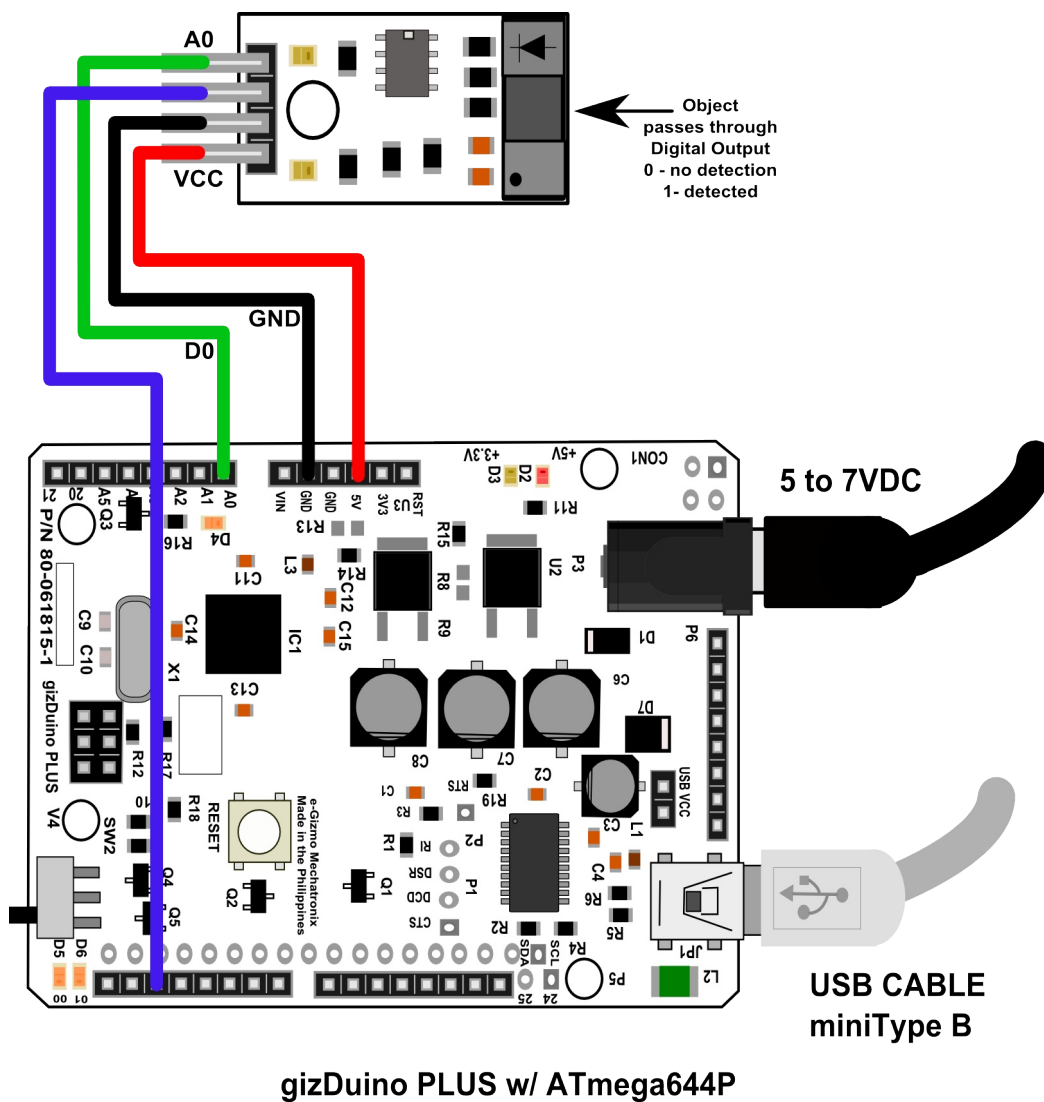


Figure 2. Sample connections

Upload this code to the gizDuino PLUS Microcontroller.
then Open the Serial Monitor.

```
/*  
  
E-GIZMO IR SPEED SENSOR MODULE  
SAMPLE CODE  
  
THIS SKETCH IS TO GET THE MOTOR/DYNAMO SPEED  
DETECTING, PULSE COUNTING BY READING THE DIGITAL  
AND ANALOG OUTPUT FOR SENSITIVITY VALUE. TO DISPLAY  
THE OUTPUT DATA ON THE SERIAL MONITOR.  
  
CODES BY E-GIZMO MECHATRONIX CENTRAL  
http://www.e-gizmo.com  
MARCH 9, 2017  
  
*/  
  
// DIGITAL PIN  
int DIGITAL_OUT= 2;  
  
void setup() {  
  //INITIALIZE SERIAL COMMUNICATION BAUD RATE  
  Serial.begin(9600);  
  //MAKE THE DIGITAL PIN'S INPUT  
  pinMode(DIGITAL_OUT, INPUT);  
}  
  
void loop() {  
  
  // READ THE INPUT PIN  
  int DIGITAL_VALUE = digitalRead(DIGITAL_OUT);  
  int SENSITIVITY = analogRead(A0);  
  
  // PRINT OUT THE READ VALUE:  
  Serial.print(SENSITIVITY);  
  Serial.print(" ");  
  Serial.println(DIGITAL_VALUE);  
  
  delay(1);    // DELAY IN BETWEEN READS FOR STABILITY  
}
```

Figure 3. Sample Code

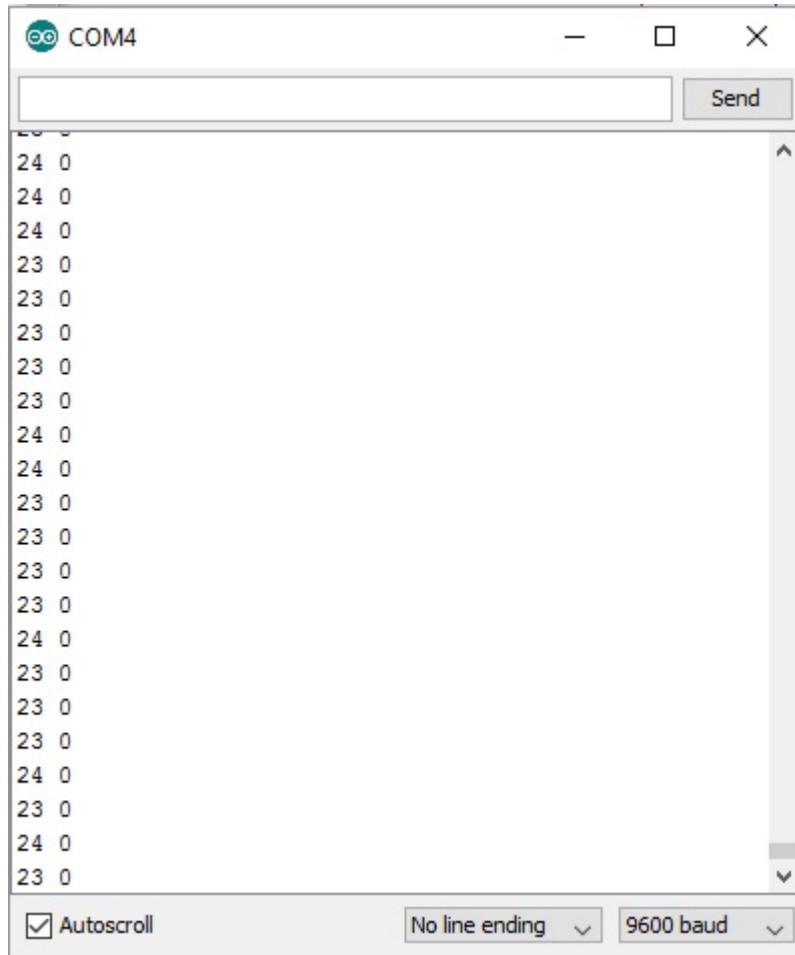


Figure 4. Serial Monitor