**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

Object passes through
Digital Output
0 - no detection
1 - detected

**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.

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*/

// 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 4. Serial Monitor