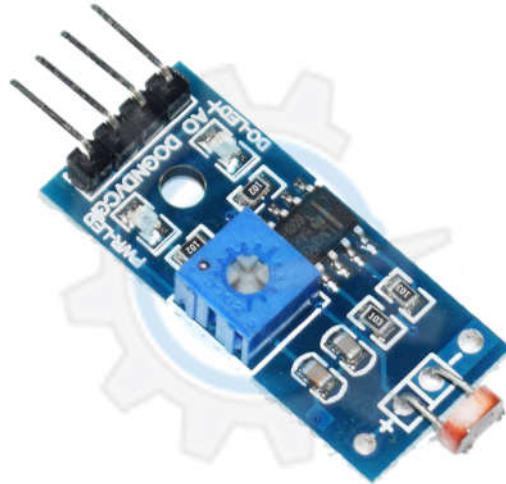


Light Sensor with Analog and Digital Output



A Light Sensor with Analog and Digital output available where it is very easy to use. It amplifies the value of the light from 0 to 1023, the more brighter light it will give lower numbers. Typically used in outdoor, for automatic switch ON/OFF of your LED lights to saved energy, security alarm with the use of laser point through the photoresistor. Compatible in all gizDuino boards and other MCU.

Specifications:

Input Voltage: 5V DC

Output Signal: Analog (0 to 1023) and
Digital (0 or 1)

On-board IC: LM393

PCB Dimensions: 15 mm x 31 mm

Wiring Connections:

GizduinoV to Light sensor

| | |
|------------|------------|
| +5V | VCC |
| GND | GND |
| D4 | DO |
| A0 | AO |

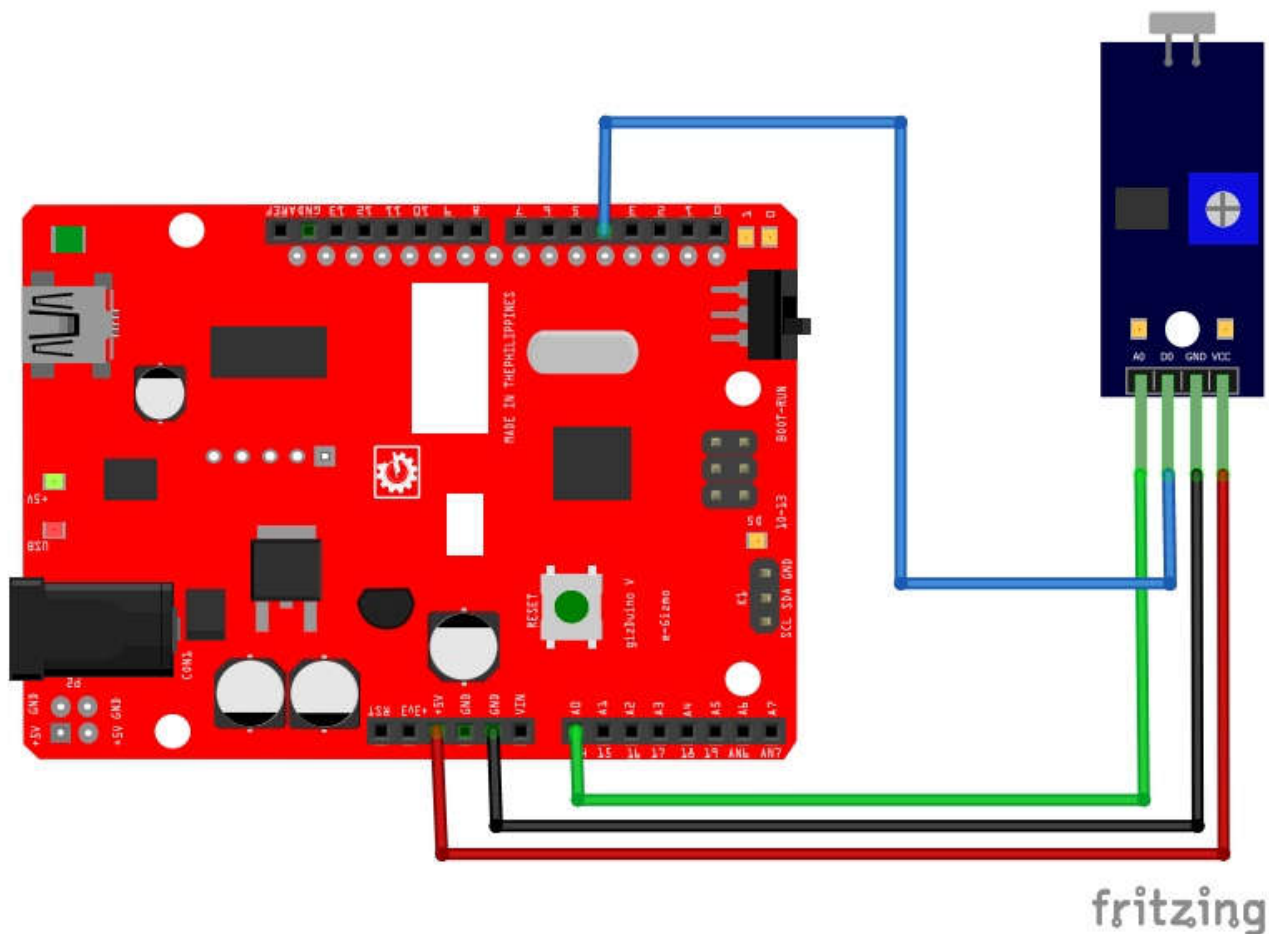


Figure 1. Sample Wiring Diagram with GizDuino V ATmega328P.

```

//*****//
//      Light sensor with      //
//      Analog and Digital output  //
//      //                      //
//      This is a sample sketch for reading //
//      the analog and digital output signal //
//      and print the data in Serial Monitor. //
//      //                      //
//      Codes by:              //
//      e-Gizmo Mechatronics Central //
//      http://www.e-gizmo.net    //
//      Novemver 5, 2017         //
//*****//

```

```

int digitalLightSensorPin = 4; // select the Digital input pin for the Light Sensor
int analogLightSensorPin = A0; // select the input pin for the Light Sensor
int analogSensorValue = 0; // variable to store the Analog value coming from the sensor
int digitalSensorValue = 0; // variable to store the Digital value coming from the sensor

```

```

void setup() {
  //Initialize the Serial output
  Serial.begin(9600);

  //Declare MicrophonePin as an Input
  pinMode(digitalLightSensorPin, INPUT);
  pinMode(analogLightSensorPin, INPUT);
}

```

```

void loop() {
  // read the value from the sensor:
  analogSensorValue = analogRead(analogLightSensorPin);
  digitalSensorValue = digitalRead(digitalLightSensorPin);

  //Print out display to the serial monitor
  Serial.print("Digital Reading: ");
  Serial.print(digitalSensorValue);
  Serial.print(", Analog Reading: ");
  Serial.println(analogSensorValue);

  delay(100); //Delay for stability
}

```

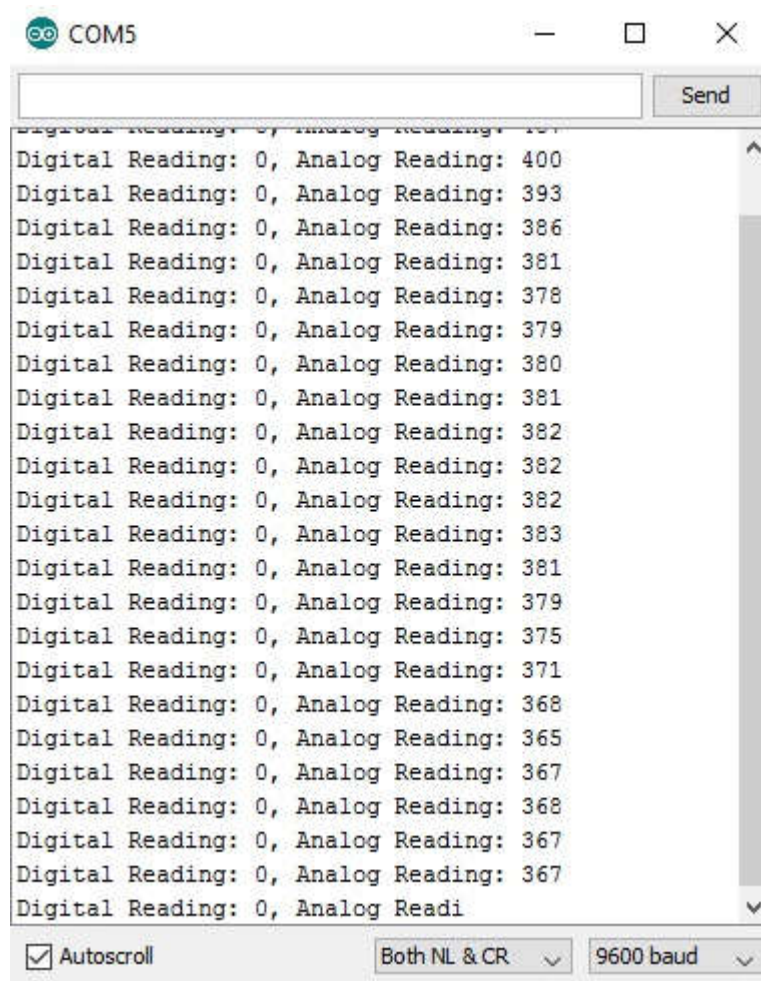


Figure 2. On the Serial monitor you can see the output of the Light sensor.