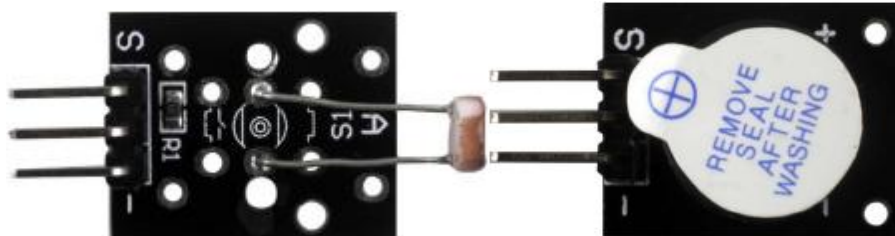# smraza

Photosensitive alarm

Overview

This lesson will teach you how to use Photoresistor module, which is simple and easy to use.

Pin definition

UNO R3	Photoresistor
A0	S
5V	
GND	"-"

UNO R3	Active Buzzer
D8	->"S"
3.3V	->"-"

Hardware required

Material diagram	Material name	Number
	Photoresistor	1
	Active Buzzer	1
	UNO R3	1
	USB Cable	1
	Male to Female Jumper wires	several

Connection diagram
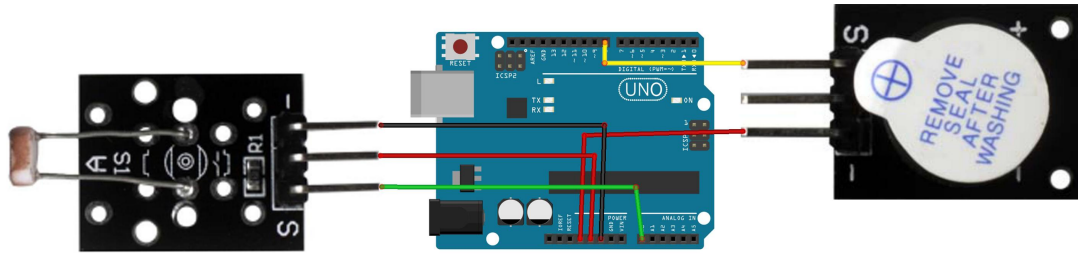
Sample code

Note: sample code under the **Sample code** folder.

```
const int SensorPin = A0;
const int buzzer = 8;
int Data=0;
void setup()
{
pinMode(buzzer,OUTPUT);
pinMode (SensorPin,INPUT);
Serial.begin(9600);
}
void loop()
{
  Data=analogRead(SensorPin);
  Serial.print("Data=");
  Serial.print(Data);
  Serial.println("\n");
  if(Data<500){
      digitalWrite(buzzer,HIGH);
      delay(500);
    }
    else
    {
      digitalWrite(buzzer,LOW);
      delay(500);
      }
  delay(500);
}
```

Example picture
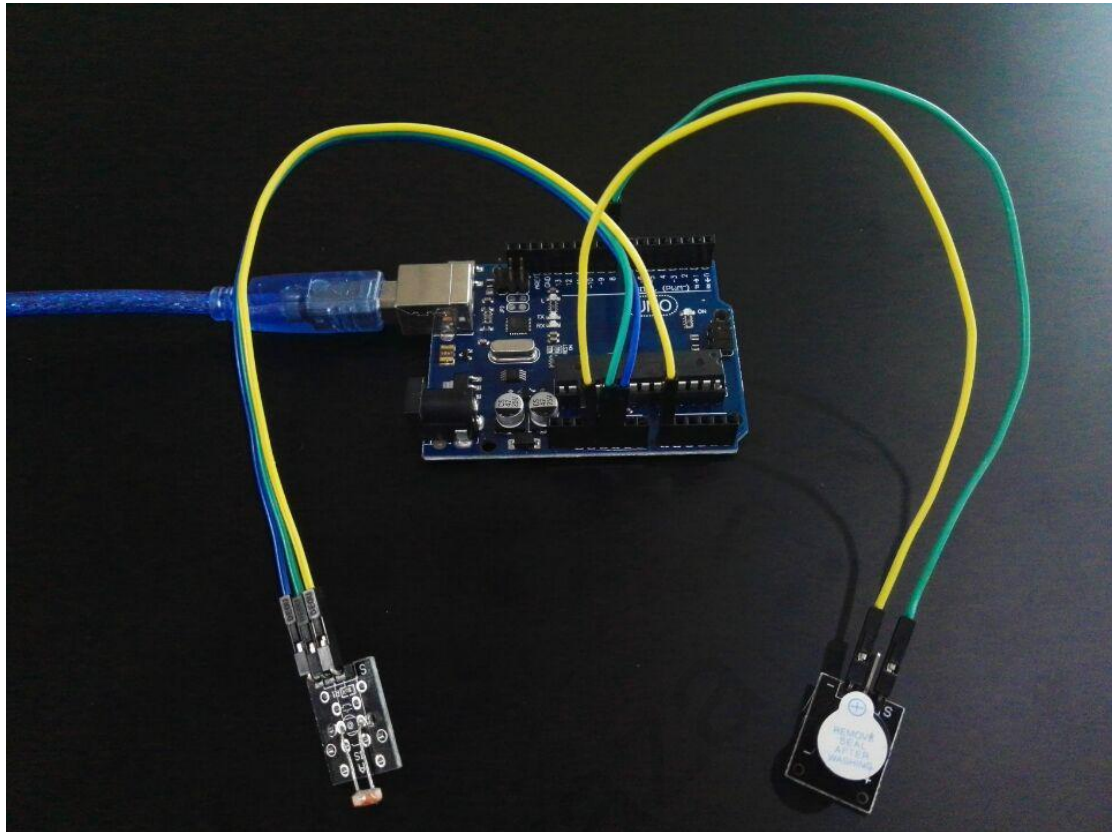
Language reference

Tips : Click on the following name to jump to the web page.
If you fail to open, use the Adobe reader to open this document.
pinMode()
analogRead()
Serial

Application effect

Open the serial port monitor, and slowly close to the sensor by hand, you will see some different values by return.

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* About Smraza:
* We are a leading manufacturer of electronic components for Arduino and Raspberry Pi.
* Official website: http://www.smraza.com/
* We have a professional engineering team dedicated to providing tutorials and support to help you get started.
* If you have any technical questions, please feel free to contact our support staff via email at support@smraza.com
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Amazon IT store: http://www.amazon.it/shops/AVEAJYX3AHG8Q
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