

## ARD 2 **Arduino Compatibles** Controllers, Shields, Modules & Sensors

### Light Sensor

ARD2-3005

- Can enable a robot to detect light
- Perfect for light control applications



#### Description

This module is perfect for light control applications. The light sensor enables a robot to detect light. Robots can be programmed to have a specific reaction if a certain amount of light is detected. The light sensor can give the robot vision and make it easier for it to operate autonomously.

The light sensor can detect distance accurately from 0 to 2 meters away, depending on the intensity of the light source and the intensity of the ambient light. Consider the following example. It is easier to see a flashlight in the dark than it is outside on a sunny day. This applies to light sensors just like it does to humans. Light sensors can only detect visible lights, just like humans. It can see everything we can see, and cannot see things we cannot see as well, such as infrared and ultraviolet light.

#### Specifications

<b>Operating Voltage</b>	5V
<b>Wavelength</b>	650nm
<b>Weight</b>	20g

#### Pinout

Module	Arduino	Function
OUT	A5	Sensor Output
VCC	5V	Power Supply
GND	GND	Ground Connection

#### Test Code

```
int sensorPin = A5; // select the input pin for the
potentiometer
int ledPin = 13; // select the pin for the LED
int sensorValue = 0; // variable to store the value coming
from the sensor
void setup() {
  pinMode(ledPin, OUTPUT);
  Serial.begin(9600);
}
void loop() {
  sensorValue = analogRead(sensorPin);
  digitalWrite(ledPin, HIGH);
  delay(sensorValue);
  digitalWrite(ledPin, LOW);
  delay(sensorValue);
  Serial.println(sensorValue, DEC);
}
```

