

Title:

Light Sensor

Sensor/Indicator/Actuator:

Sensor

Features:

Detects Light in the Environment

Connection:

Analog

Summary:

The Light Sensor changes voltage based on the amount of light in the environment. More light and it will report a higher voltage. Using this sensor can be as simple as measuring the ambient light level. More complex projects might intentionally block the path of light to the sensor and other when some physical condition is met would light hit the sensor. Check out the **Intruder Alarm** blueprint for a look at how works.

Example Code

```
// Plug Light sensor into Socket A0
// Change here if you're using a different socket
#define LIGHT_SOCKET A0

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
  // make the pushbutton's pin an input:
  pinMode(LIGHT_SOCKET, INPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the light sensor value:
  int lightValue = analogRead(LIGHT_SOCKET);
```

```
// print out the state of the button:
Serial.println(lightValue);
delay(1);          // delay in between reads for stability
}
```