Introduction

This module uses a special ambient light detector (TMET6000)
(https://www.dfrobot.com/product-274.html) with spectral response that closely emulates the
human eye. It help you to to detect the light density and reflect the analog voltage signal back to
Arduino controller. You can set the threshold of voltage level to trig other unit on Arduino
project.

Feature

- Near Human Eye Spectral Response
- Scalable Output Voltage

Specification

- Supply Voltage: DC 3.3~5.5V
- Operating Temperature: -40~85°C
- Illumination Range: 1 – 1000 Lux
- Output: analog voltage, 0 – 5V @VCC=5V
- Module Size: 30 x 22mm

Pinout

Cable Color	Description
black	GND
red	VCC
other	output

Sample Code

```
void setup()
{
  Serial.begin(9600); // open serial port, set the baud rate to 9600 bps
}
void loop()
{
    int val;
    val=analogRead(0);        //connect sensor to Analog 0
    Serial.println(val);      //print the value to serial
    delay(100);
}
```

FAQ

Q&A	Some general Arduino Problems/FAQ/Tips
Q	The unit of the output from these sensors is? How can I convert it to LUX?
A	Well, it is only a simple analog sensor that could show you the relationship of the light intensity (within its detect range) and voltage (0-5V). If you want to transfer the voltage to unit in LUX, then well, it requires that you have a commercial Light Intensity Meter like this (http://www.ebay.com/itm/Light-Intensity-Meter-30-000-Lux-Range-2788-0-Foot-Candle-Parameter-Digital-LCD-/231475450367?hash=item35e50311ff:g:VlIAAOxy7MtRvCDj) that can display LUX info, then you can match the readings to the sensor's analog reading, then you could a map to describe the relationship of voltage and ambient light density.
A	For any questions, advice or cool ideas to share, please visit the **DFRobot Forum** (https://www.dfrobot.com/forum/).

More Documents

🛒 Get **Light Sensor(TEMT6000)** (https://www.dfrobot.com/product-274.html) from DFRobot Store or **DFRobot Distributor**. (https://www.dfrobot.com/index.php?route=information/distributorslogo)