DFRobot Ambient Light Sensor (DFR0026)

D-Robotics UK (www.droboticsonline.com)

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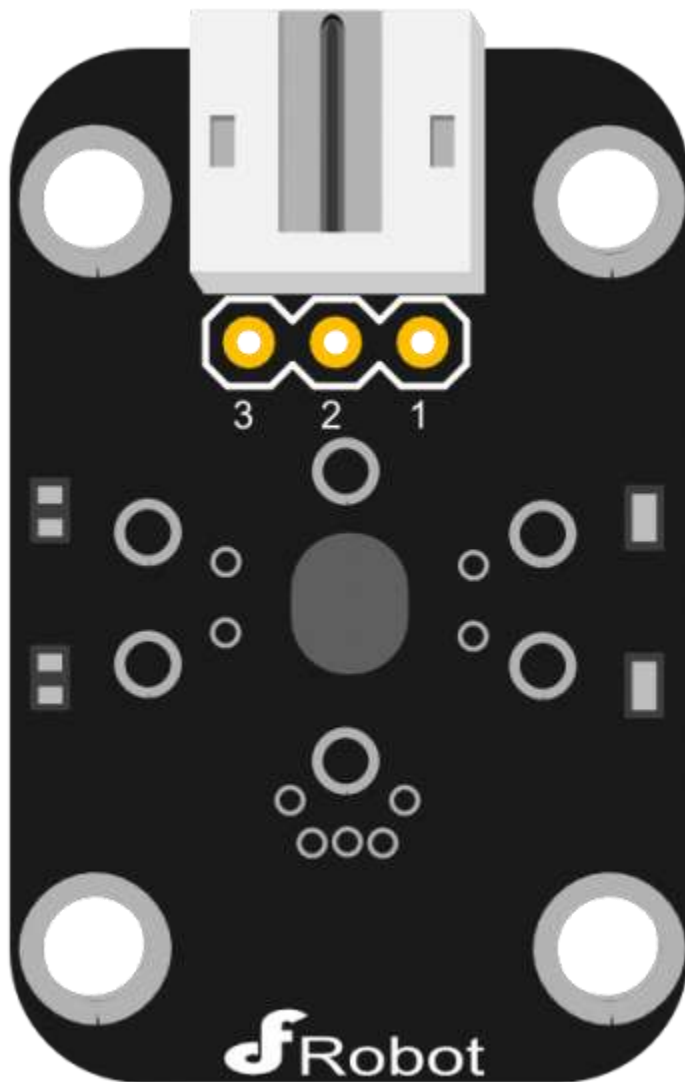**3/25/2012**

DFRobot Ambient Light Sensor

1. Introduction

The DFRobot Ambient Light Sensor works with Cds Photoresistor and allows you to have a DC Voltage output depending on the brightness of lights. Dark has a low value. The sensor can be used to detect the intensity of ambient light.
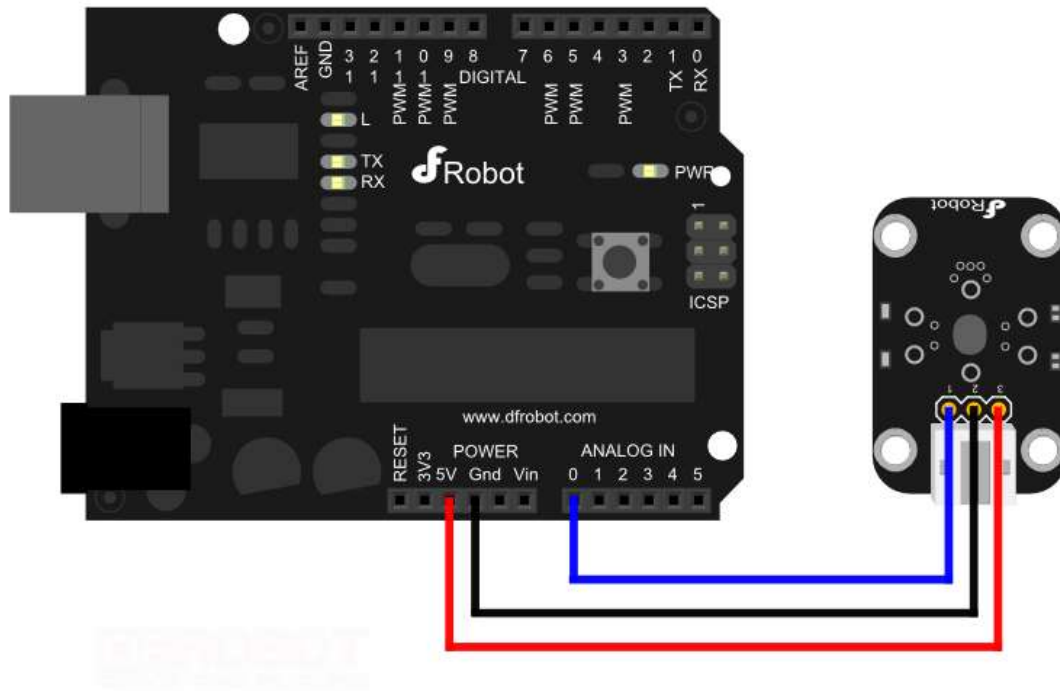
2. Specifications

- Detects ambient light density
- Works with Cds Photoresistor
- Analog voltage output: 0 to 5 Vdc
- Suitable supply voltage: +3 to 5Vdc
- Interface with microcontrollers and logic circuits
- Standard 3-pin PCB connector
- Analog sensors

- Uses PH 2.0 socket
- Special sensor with Arduino expansion boards

Pin	Definition
1	Signal Output
2	GND
3	Power

3. Connection Diagram

4. Sample Code

```
1    void setup()
2    {
3      Serial.begin(9600); // open serial port, set the baud rate to 9600
     bps
5    }
6    void loop()
7    {
8        int val;
9        val=analogRead(0);   //connect grayscale sensor to Analog 0
         Serial.println(val,DEC);//print the value to serial
10       delay(100);
11   }
```

Declaim:

This manual is a translated version of the manufacturer's manual. Although the due care has been taken during the translation, D-Robotics is not responsible for the accuracy of the information contained in this document.

D-Robotics: www.droboticsonline.com

Email contact: d_robotics@hotmail.co.uk