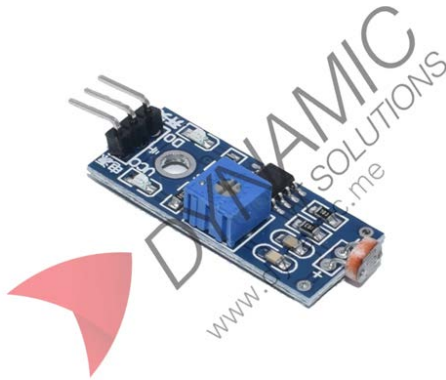


Photosensitive LDR Sensor Module



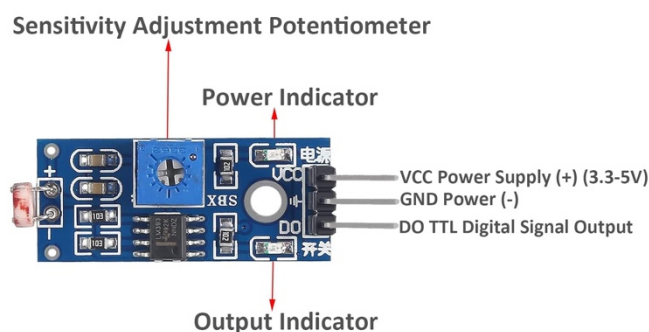
Features:

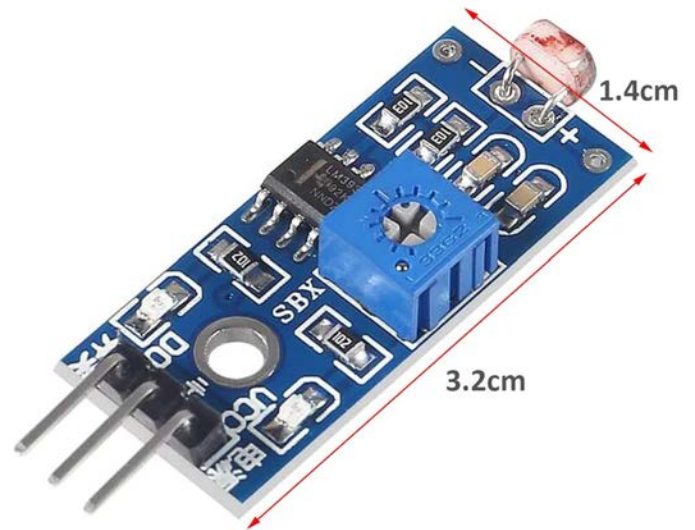
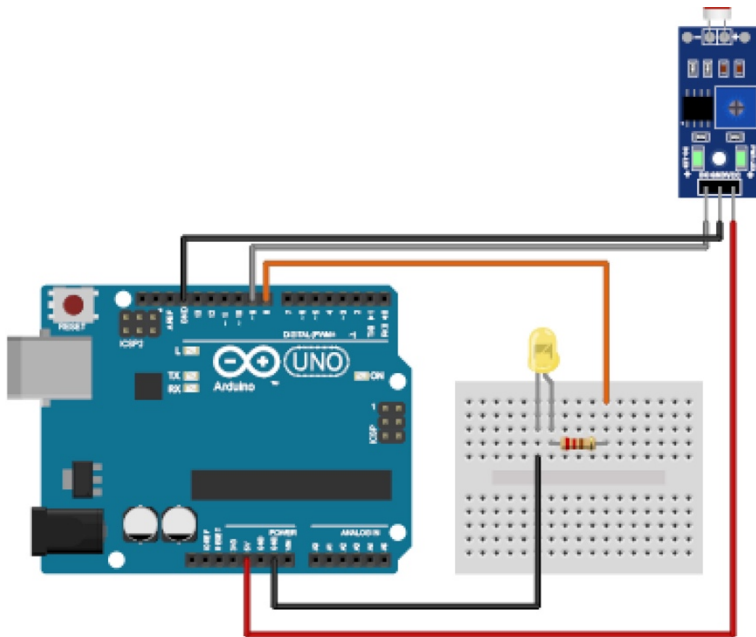
The Photosensitive LDR Sensor Module is designed for detecting ambient light intensity using a sensitive photoresistor and LM393 comparator. It provides a digital output signal suitable for triggering microcontrollers or relay modules. Sensitivity is adjustable using an onboard potentiometer, allowing flexible light threshold control. The module can directly drive relays or communicate with MCUs for applications such as automatic lighting, smart devices, and environmental monitoring.

Specifications	
Model	LDR Photosensitive Sensor Module
Working Voltage	3.3V–5V DC
Output Type	Digital (0/1)
Comparator Chip	LM393
Sensor Type	Photoresistor (LDR)
Output Drive Current	>15mA
Sensitivity Adjustment	Onboard potentiometer
PCB Dimensions	3.2 × 1.4 cm
Mounting	Hole for easy installation
Polarity Protection	None (do not reverse power connection)
Output Logic	Low = Bright light, High = Low light
Usage	Light detection, relay triggering, automation control

Pinouts:

Pin Name	Type	Description
VCC	Power	Connect to 3.3V–5V power supply
GND	Ground	Connect to system ground
DO	Digital Output	TTL digital signal output based on light level





Product Pictures:

