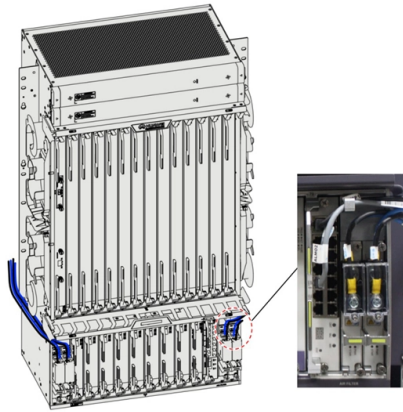


Light blocking module experiment



Overview

This wiki article covers the KY-010 light barrier module (sometimes called a photo interrupter module). Included are wiring diagrams, code examples, pinouts, and technical data. The signal pin will go high when an object blocks light from passing between its emitter and detector. The Light Blocking Module, also known as a Photo Interrupter or Slotted Optical Sensor, is a sensor that detects changes in light intensity caused by the interruption of a beam of light. It consists of an infrared LED and a phototransistor, making it ideal for detecting objects or obstacles in. Arduino Light Blocking Sensor (Photo Interrupter Module) - Keeping Your Cards Safe (Prototype): This project is a prototype and in this project I will be discussing about how your cards - such as credit cards, debit cards, gift cards - can be kept safe. In this project, we are going to make a Simple AutomaticLight Controller using LDR. Here we have used an LED bulb as output.



Article Content

Aug 20, 2025

Unleashing the Power of Arduino Uno: Create a Light

We will start with an overview of a light-blocking sensor and how Arduino Uno works. Then, we will dive into creating your light-blocking sensor,

Jan 19, 2026

How to Use Light Sensors With Arduino

Behind both of these tricks is a simple but powerful component: the light sensor. In this tutorial, we'll explore what light sensors are, how they work,

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Light Magic: Using LM393 and Arduino UNO

Automatic light control using a photosensitive LDR sensor module and Arduino.

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LDR Light Sensor - Arduino Tutorial

Interfacing a Light dependent resistor (LDR) with an Arduino UNO to check whether the environment is dim, dark, light, or bright, is a powerf

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Arduino Light Sensor Circuit using LDR

In this project we are making a Light Sensor using LDR with Arduino to control a light bulb/CFL as per light condition of the room or outside area.

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KY-010 Light break sensor module - C.B.Electronics

KY-010 Light break sensor module Photo Interrupter Module Keyes KY-010 for Arduino, will trigger a signal when light between the sensor's gap is blocked. The

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Light Blocking Module with Arduino - Step by Step Guide

In this step-by-step guide, we'll show you how to set up the Light Blocking Module with an Arduino and create projects that react to the presence or

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Analysis of Blocking Capability Failure Mechanism in IGBT Module

In this article, experiments in a high salt spray environment are conducted on wire-bonding IGBT modules to reveal the failure mechanism. Different degradations of the blocking capability are

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How to Use a Photoresistor!

In this project, you will learn how to make a simple circuit that will use a photoresistor to sense light. Basically, a photoresistor is a little circuit that

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Sensor Wiki: KY-010 Light Barrier Module

Learn: how light sensor works, how to connect light sensor to Arduino, how to code for light sensor, how to program Arduino step by step. The detail instruction,

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LDR sensor with Arduino – How to use (with examples)

Learn how to use a Light Dependent Resistor with Arduino. This post will cover the basics of the LDR and how to use it to turn on a light when it's dark.

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Arduino Light Blocking Sensor (Photo Interrupter Module) - Keeping Your Cards Safe (Prototype): This project is a prototype and in this project I will be discussing about how your cards - such as credit

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Light Magic: Using LM393 and Arduino UNO

Automatic light control using a photosensitive LDR sensor module and Arduino. In this project, we are going to make a Simple AutomaticLight Controller

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(a) Layout of the visible light blocking experiments. (b) WXT module ...

Download scientific diagram | (a) Layout of the visible light blocking experiments. (b) WXT module fixed on the rotating platform. from publication: Visible light blocking performance of a wide ...

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Pairing a Light Dependent Resistor with an Arduino

Connect and program a light dependent resistor on the Arduino to measure light intensity for light responsive and daylight tracking projects.

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KY-010 Light barrier-module

Code example Arduino In this program, a LED will flash up, if a signal was detected at the sensor. You can also use the modules KY-011, KY-016 or KY-029 as LEDs.

Jan 05, 2026

US20180138351A1

A light blocking sheet is used to block unnecessary lights in the imaging lens module. The surface properties of the light blocking sheet are critical to the effect of suppressing stray lights.

Mar 20, 2026

LED Control with LDR (Light Dependent Resistor) and

Have you ever wanted to build a smart light that turns on automatically at night and off at day? In this hands-on tutorial, you'll learn how to

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Turn Led ON/OFF using Light Blocking Sensor Module

In this video we are making a Light Blocking Indicator project with Light Blocking Module using Arduino micro controller platform. Very easy demo

Dec 05, 2025

Arduino Photo Interrupter Module

Hi guys, in this project, we will learn how to use the photo interrupter module with Arduino. The photo interrupter module Keyes KY-010 for Arduino will

Dec 14, 2025

Sensor Wiki: KY-010 Light Barrier Module

This sensor wiki entry covers the KY-010 light barrier module with technical specs, pinouts, and code samples for the Arduino and Raspberry Pi.

Dec 30, 2025

Graphical Programming Kit for Learn Coding with

In this experiment, we will connect a photoresistor to an OSOY00 Basic Board for Arduino analog input and read the value with the analogRead ()

Nov 08, 2025

How to use LDR Sensor Module with Arduino

It is widely used in various applications such as automatic lighting systems, security devices, and environmental monitoring. The LDR Sensor

May 13, 2026

KY-010 Light Blocker Module

Overview: The KY-010 Light Blocker Module is an optical sensor module that detects interruptions in a light beam. It uses an infrared (IR) LED paired with a phototransistor to detect when an object

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KY-010 Module : PinOut, Datasheet, Equivalent & Its

How KY-010 Module Work? A KY-010 photo interrupter module works by noticing whenever a light signal is blocked through an object. So it acts like a

May 02, 2026

Blue Light Blocking Lenses Measuring Device

This experiment has also shown that the chromaticity coordinates will be changed when using blue light lens. Based on the experiment, the brightness of the blue light blocking lenses

Jan 06, 2026

Plant light-blocking experiment*

Plant light-blocking experiment* Students will explain how plants transform energy using photosynthesis and will use an experiment to observe how blocking light causes leaves to bleach. (2x 1h)

Oct 01, 2025

Arduino Photo Interrupter Module KY-010 - Wiring & Code

Use the KY-010 Photo Interrupter with Arduino to detect objects breaking an IR beam. Wiring diagram, code and Fritzing part included.

Contact Us

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