

How to use a homemade light-controlled timing module



Overview

Explore how to create a timer-based automatic light circuit using the versatile NE555 IC in monostable mode. This step-by-step DIY electronics project includes components, wiring instructions, and precautions. How to Use it Last Updated on April 19, 2025 by Swagatam 11 Comments So this 35238-MP Multi-Function Timer module is an digital adjustable programmable timer which we can use it for doing time-based automation things. Inside it, there is a microprocessor that watches time very closely and makes the. Arduino Laser-based Timing System: As part of my teaching, I needed a system to accurately measure how quickly a model vehicle travelled 10 meters. Initially, I thought I would buy a cheap ready-made system from eBay or Aliexpress, these systems are commonly known as light gates, pho. In this project we will see how to build a programmable countdown timer in the range of 1s – 9999s which can be used in domestic or industrial applications as well as by beginners to learn how to assemble an electronic module and load a program. During the selected time interval, the system can. I have 4. In the finish line, you will have an Arduino UNO, nRF24L01+ Transceiver, LED button pad, photoresistors, LEDs, plastic enclosure, and tripod together with my Finish Line PCB. This module acts as the master, from the LED. There are three different modes in which IC operates: Astable (produces oscillation without triggering), Monostable (also known as timer circuit), and Bistable (requires triggering to change the state).

Article Content

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Arduino smart lighting with timers

Through Arduino programming, you can create systems that control lighting intensity, color, and schedules. This can be done using physical

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Traffic Light Controller Circuit [Signal Red, Green, Amber]

A traffic light controller circuit can be used for controlling the sequential illumination of the RED, ORANGE and GREEN traffic signal lamps, by

May 08, 2026

Beginner's Guide to the 12V Time Delay Relay Module

Learn how to use a 12V time delay relay module with a pre-wired LED. This beginner-friendly guide covers wiring, timing settings, and trigger functions

Nov 24, 2025

Programmable 35238-MP Timer Module? How to Use it

Programmable 35238-MP Timer Module? How to Use it Last Updated on April 19, 2025 by Swagatam 11 Comments So this 35238-MP Multi-Function

Sep 16, 2025

DIY Arduino Simple LED Timer Circuit : 3 Steps

In this Instructable I am going to show you how you can make a simple timer circuit. To start off this project I got my hands on the Basic Arduino Starter Kit made by

Sep 07, 2025

555 Based Adjustable Auto On Off Delay Timer Circuit

The Project 555 timer-based monostable circuit is designed to control a relay for a user-adjustable period. When triggered by a push button, the circuit

Jun 29, 2025

Simple timer circuit for LED

I have LED candles that do this and appear very simple but can't figure out what controls the timing in such a small package. I suppose I could "cannibalize" the candle for the circuit, but I

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LED Light Timer : 6 Steps (with Pictures)

LED Light Timer: Half of my family tends to fall asleep with the light on. It doesn't feel right to leave the light on all night, so we "improved" the two lamps to have a timer

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Arduino Laser-based Timing System | Trybotics

The operation of a light gate timing system is pretty simple. Each light gate consists of a laser module at one side, this projects a laser spot onto a light-dependent

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Wireless Laser-Gate Timing System for Track and Field

I had been working on line-follower robots with Arduino for some time, so I realized that an affordable, wireless and precise laser gate timing system made of easy to find components should be possible.

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timing light - Hackaday

Older cars that used a central distributor made use of a specialty stroboscope called a timing light in order to properly advance the ignition timing of the engine.

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Timer with relay and Arduino - Open-Electronics

In this project we will see how to build a programmable countdown timer in the range of 1s - 9999s which can be used in domestic or industrial

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Homemade LED Timing Light

How I made a Simple homemade LED timing light for checking ignition timing on motorcycles/scooters/small engines/some cars. The schematic for the LED timing light can be found

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DIY Timing Light

In This Video I build a timing light to use on small engines using a circuit diagram form

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Simple Delay Timer Circuits Explained

In this post I have explained the making of simple delay timers using very ordinary components like transistors, capacitors and diodes. All these

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Arduino Laser-based Timing System : 6 Steps (with Pictures ...

Arduino Laser-based Timing System: As part of my teaching, I needed a system to accurately measure how quickly a model vehicle travelled 10 meters. Initially, I thought I would buy a cheap ready-made

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AC Light Dimmer Circuit – Homemade Circuit Projects

AC Light Dimmer Circuit Last Updated on January 18, 2024 by Swagatam 343
Comments In this post I have explained through two examples

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Sunsetting Atom

A set of encrypted code signing certificates were exfiltrated; however, the certificates were password-protected and we have no evidence of malicious use. As a preventative measure, we will

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Automatic Light Project: Light-Controlled Illumination

Name: Arduino-Powered Automatic Light System Category: Type: Summary -
oneline: A hands-on project to build an automatic light system that controls itself

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Simple Delay Timer Circuits Explained

I'm thinking of a normally closed relay in series with the control output, which is held open by the alarm signal. When the alarm signal is terminated, I

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Programmable 35238-MP Timer Module? How to Use it

So this 35238-MP Multi-Function Timer module is an digital adjustable programmable timer which we can use it for doing time-based automation things.

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Timing Light Sequences: Build a Traffic Light Controller

Timing Light Sequences: Build a Traffic Light Controller with an Arduino MEGA Learn how to simulate a traffic light using an Arduino.

Feb 14, 2026

Timer-Based Automatic Light using NE555

Explore how to create a timer-based automatic light circuit using the versatile NE555 IC in monostable mode. This step-by-step DIY electronics project

Feb 10, 2026

directory-list-2.4.txt/directory-list-2.4.txt at main

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Jul 03, 2025

Arduino Timers [Ultimate Guide]

Those timer modules are used to generate PWM output signals and provide timing & delay functionalities to the Arduino core, and we can also use them to run in any

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