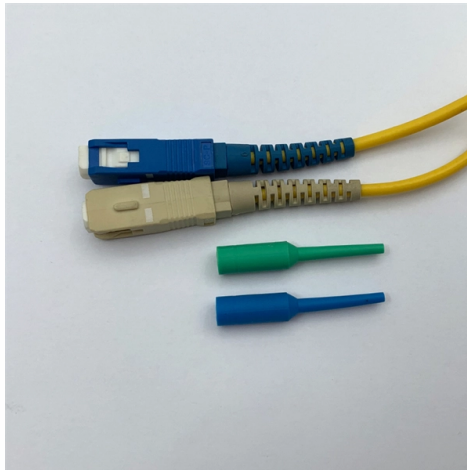


Light-sensing and voice-controlled module



AI Overview

A voice-controlled light sensor module allows you to operate lights using voice commands, often integrated with Arduino and relay modules for safe control of high-voltage devices. Overview A voice-controlled light system typically combines a voice recognition module, a microcontroller (like Arduino Uno, Nano, or Mega), and optionally a relay module to safely switch high-power lights. The voice module detects specific commands and sends signals to the microcontroller, which then activates the relay to turn lights on or off. Key Components Voice Recognition Module: Modules like the Voice Recognition Module V3 can store up to 80 sound commands, with 7 commands active at a time. It communicates via GPIO pins or UART and operates offline, ensuring fast response and privacy. Microcontroller: Arduino boards are commonly used to process signals from the voice module and control relays or LEDs. Relay Module: Relays allow the Arduino to safely control high-voltage devices. Typical modules have 8 channels, each capable of handling up to 250V/10A, with optocoupler isolation and LED indicators for status. Sensors (Optional): Light sensors can be added to automate switching based on ambient light, combining voice control with environmental sensing. How It Works Voice Command Detection: The module continuously listens for trained commands like "Light On" or "Light Off". Signal Transmission: When a command is recognized, the module sends a signal to the Arduino via GPIO or UART. Relay Activation: The Arduino triggers the relay, which switches the connected light or appliance safely. Optional Automation: Light sensors can provide additional control, e.g., preventing lights from turning on during daylight. Implementation Tips Power Supply: Voice modules typically run on 4.5-5.5V and draw ~40mA; relays require 5V for the coil. Programming: Use Arduino libraries...

Article Content

Icstation DIY Light Sensor Sound Module, Type-C USB ...

About this item □DIY Greeting Card□DIY light sensor sound module is equipped with a 0.5W speaker and a 3.7V battery. The sound module is an ideal choice for mother's day and father's day DIY

Ishita-Mehta/Voice-Controlled-Lights-Arduino

Working Arduino will be checking the incoming values all the time and controls the LEDs as per the voice command. Arduino will turn on or off the LED according to the given Voice command.

Amazon : Voice Activated Light Switch

Sound Module Voice Chip for Gift Box,16 MB MP3 Light Sensor Control Activated Music Audio Box,for Crafts, Christmas, New Year Greeting Cards,with Speaker. Add to cart

Simple Voice Automation with DFRobot Beetle ESP32 C6

We'll build a voice-controlled LED system that turns on and off NeoPixel lights based on spoken commands. The DFRobot Gravity Offline Voice Recognition Sensor will listen for voice input,

How to Design voice activated lights?

Introduction Voice controlled devices are becoming increasingly popular in home automation and assistive applications. The ability to control lights and other

Voice Activated Home Automation: Control Made Simple

Voice activated home automation for easy living. Control lights, security, and more with your voice. Transform your home with smart, seamless integration.

Smart Curtain Switch Modules | Home Automation for

Upgrade your curtains with MOES Smart Curtain Switch Modules for seamless app, voice and remote control. Easy DIY installation, smart automation and full comfort.

(PDF) Simple Light-sensitive and Voice-controlled ...

In this paper, LED lighting components and an Arduino-UNO development board are selected to build a simple voice-controlled and light-sensitive lighting system, and relevant

Exploring Light Control Voice Module: Material Grades, Properties,

Types of Light Control Voice Modules A light control voice module is an intelligent electronic device that enables hands-free lighting control through sound or voice activation. These modules are widely

Sound Module, JRGKJCP 16MB Push Button, Magnetron,Light Control ...

Sound Module, JRGKJCP 16MB Push Button, Magnetron,Light Control Activated Recordable Voice Sound Chip Module with Light Strip,Speaker,for Greeting Card Audiobook, Xmas Presents Boxes,

Control LED Brightness with Voice and Arduino

This LED Brightness Control with Voice and Arduino project provides an interactive and efficient way to control lighting based on voice intensity. By using an analog microphone module,

Integrated sensing, lighting and communication based on visible light ...

As wireless communication rapidly evolves and the demand for intelligent connectivity grows, the need for precise sensing integrated with efficient communication becomes paramount.

Taidacent 12V Voice Activated Light Switch to Increase ...

About this item The human body induction + voice-activated delay switch requires a supply voltage of 12V. used in car alarms, voice control switches, and various high current and high voltage

Simple Light-sensitive and Voice-controlled Lighting System based on ...

This paper consulted the relevant information, chose sound and light control together, and set up a programmable delay LED lighting system. On the basis of basic lighting functions, people...

Smart Home Automation: Integrating Voice and Typed Command

The research aims to develop a smart home automation system integrating voice and typed command control for lights, fan, sockets, automated water tank management, and room temperature sensing.

SMARTY VOICE MODULE (US version)

The Smarty Voice module allows you to simultaneously control up to 8 output lamps via voice control, compatible with Amazon Alexa and Google Home systems. The Smarty Voice module is also

evansachie/Arduino-Voice-Controlled-Light-Switch

This project utilizes the Arduino Nano 33 BLE Sense microcontroller to create a voice-controlled light switch. The built-in microphone captures audio signals, and a pretrained word detection model

Voice-Controlled Lights ON/OFF | Offline Voice Recognition Module ...

#ktronic Control your lights with your voice —No WiFi needed! Using an offline voice recognition module and Arduino, this DIY smart home project is f...

Voice Controlled Home Automation! | Voice Recognition Module

Want to control your home appliances using just your voice? ☺ In this video, I will show you how to use a DFRobot Voice Recognition Module with Arduino and a 2-Channel Relay Module to control a ...

Smart Lighting with Voice Control: The Ultimate Guide

Tired of fumbling for light switches? Voice-activated smart lighting provides a hands-free solution, making your home safer, more efficient, and incredibly convenient.

LED Voice Activated Sound Control Switch 5 Pack High Sensitivity Sensor ...

Product description Switch, 5pcs LED Sound and Light Control Switch MRSK50A High Sensitivity Voice Activated Induction Sensor Module 43 X 28 X 16mm, Wall Light Switches Application range: The

Smart Lighting with Voice Control: The Ultimate Guide

The integration of voice-activated smart lighting systems introduces an exceptional level of convenience to daily life. The simplicity of setup and operation means that with a mere voice

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://umele-pestovani.eu>

Email: info@umele-pestovani.eu

Phone: +49 152 287 6349

Address: Neue Mainzer Straße 66-68, 60311 Frankfurt am Main, Germany

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