

Light-controlled intelligent lighting module



Article Overview

A light-controlled intelligent lighting module is a smart device that manages lighting automatically using sensors, controllers, and connectivity to optimize energy use, comfort, and functionality.

Overview

A light-controlled intelligent lighting module acts as the central control unit for a lighting system, bridging physical fixtures with smart automation platforms. Unlike traditional switches, it can adjust brightness, color, and timing based on environmental conditions, user preferences, or schedules, making lighting responsive and energy-efficient .

Key Features

- **Automatic Light Adjustment:** Modules use light sensors to detect ambient daylight and adjust artificial lighting accordingly, a process known as daylight harvesting .
- **Motion and Occupancy Detection:** Integrated motion or radar sensors turn lights on or off based on presence, reducing energy waste .
- **Dimming and Color Control:** Supports dimming, color temperature tuning, and scene settings for human-centric lighting or mood-based environments .
- **Connectivity and Remote Control:** Can be controlled via smartphone apps, web interfaces, or voice assistants like Alexa, Google Home, or Apple HomeKit .
- **Energy Monitoring:** Tracks energy consumption to optimize efficiency and support sustainability goals .

Article Content

Pluggable|Honeywell Building Automation

This intelligent lighting control module helps to replace fixed wiring with plug-in simplicity and soft wiring connections. This results in

IoT Enabled Smart Lighting Control Systems | Digi International

Digi's smart lighting control systems provide automated, intelligent lighting for cities. Save energy & money with intelligent lighting

IoT enabled Smart Lighting System using STM32 microcontroller with

An intelligent system for operating and controlling lighting in order to save energy is developed and presented in this article. The

CDH4U5 Lighting Control Module|Honeywell Building Automation

Learn all about the Ex-Or CDH4U5 Lighting Control Module. Click to find product details, documentation, ordering info and more.

Intelligent Integrated Fixture Control System

Sensor Control Module Sensor wirelessly communicates to all other devices in the room, provides occupancy and light level

Future trends in intelligent lighting control systems: Integrated ...

<p>Lighting energy consumption accounts for a considerable proportion of the total electricity consumption of a building; therefore,

Connected and smart LED lighting for IoT

Smart, energy-efficient, and cost-effective connected LED lighting systems beyond lighting controls with sensors and Bluetooth® for

Intelligent Lighting Control System

Intelligent lighting control system or ILCS improves energy efficiency – it reduces energy use – and enables temporary and

Layout 1

For over 25 years, Intelligent Lighting Controls (ILC) has been a leader in the lighting control industry. We engineer and manufacture

Lutron | Intelligent light. Automated Shades. Powerful Controls

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

Website: <https://yachtchartercapetown.co.za>

Email: info@yachtchartercapetown.co.za

Phone: +27 21 863 4927

Address: 1st Floor, The Towers, 1 St George's Mall, Cape Town, 8001, South Africa

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