

What is the function of the light-finding module



Article Overview

A light-finding module detects light intensity and direction, converting it into electrical signals to guide devices or indicate light levels.

Core Function

The primary function of a light-finding module is to detect light and respond to its intensity or direction. It typically uses a photoresistor or other light-sensitive elements to measure the amount of light in its environment. As light intensity changes, the module converts this information into an electrical signal, which can then be processed by a microcontroller or control system to perform actions such as moving a robot toward a light source or adjusting lighting systems automatically .

Components and Operation

A typical light-finding module includes:

- Photoresistor (LDR): Changes resistance based on light intensity; lower resistance corresponds to stronger light .
- LED bar graph: Provides a visual indication of light intensity; more LEDs light up as light becomes stronger .
- Shift register (e.g., 74HC595): Controls the LED display based on the analog signal from the photoresistor .



Article Content

RangePRO « Laserdyne Technologies

RangePRO Laser Rangefinder RangePRO is a family of advanced digital laser range finder products that yield accurate, repeatable

Military Laser Rangefinder Receivers | Hybrid

AMI has extensive experience in design and high volume manufacture of laser rangefinder receivers, counters, and processing

2016 DGON Inertial Sensors and Systems

The US Army in conjunction with our industry partners, have spent the last ten years canvassing the marketplace to develop,

North-Finding Module Evaluation.

The Litton north-finding module (NFM) provides, as its name implies, virtually automatic sensing of true north. The azimuth heading

What Is a Light Sensor? Types, Uses & Arduino Guide

Each type serves different purposes, such as detecting light for automatic lighting systems or measuring light intensity in

02d_Lighting Systems

The lighting control module detects xenon bulb failure via a reduction in current flow to the xenon control module. When a bulb fails,

Laser rangefinder

With the speed of light known, and an accurate measurement of the time taken, the distance can be calculated. Many pulses are

Laser Range Finding LRF-Modules | Ultisense OEM Solutions

Our laser rangefinder modules set standards when it comes to sensors for distance measurement. A solid solution empowering your

The North Finding Module

NAVIGATION is a quarterly journal published by the Institute of Navigation. The journal publishes original, peer-reviewed articles on

Which Scan Array Module to use?

I'm running an Imicus scanning for data and relic sites. I'm fairly well up in all the relevant skills. I have a problem

Proximity and ambient light sensing (ALS) module

The module is designed for ultra low power operation. Ranging and ALS measurements can be automatically performed at user

Contact Us

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