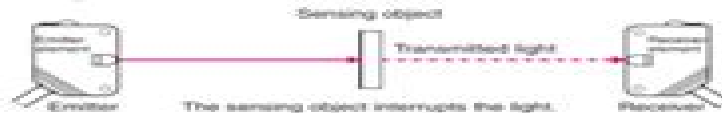


Introduction

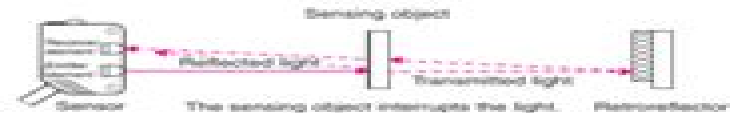
What Is a Photoelectric Sensor?

Photoelectric Sensors detect objects, changes in surface conditions, and other items through a variety of optical properties. A Photoelectric Sensor consists primarily of an **Emitter** for emitting light and a **Receiver** for receiving light. When emitted light is interrupted or reflected by the sensing object, it changes the amount of light that arrives at the **Receiver**. The **Receiver** detects this change and converts it to an electrical output. The light source for the majority of Photoelectric Sensors is infrared or visible light (generally red, or green/blue for identifying colors). Photoelectric Sensors are classified as shown in the figure below. (See *Classification* on page 4 for details.)

Through-beam Sensors



Retro-reflective Sensors



Diffuse-reflective Sensors



Features

1. Long Sensing Distance

A Through-beam Sensor, for example, can detect objects more than 1.0 m away. This is impossible with magnetic, ultrasonic, or other sensing methods.

2. Virtually No Sensing Object Restrictions

These Sensors operate on the principle that an object interrupts or reflects light, so they are not limited like Proximity Sensors to detecting metal objects. This means they can be used to detect virtually any object, including glass, plastic, wood, and liquid.

3. Fast Response Time

The response time is extremely fast because light travels at high speed and the Sensor performs no mechanical operations because all circuits are comprised of electronic components.

4. High Resolution

The incredibly high resolution achieved with these Sensors derives from advanced design technologies that yielded a very small spot beam and a unique optical system for receiving light. These developments enable detecting very small objects, as well as precise position detection.

5. Non-contact Sensing

There is little chance of damaging sensing objects or Sensors because objects can be detected without physical contact. This ensures years of Sensor service.

6. Color Identification

The rate at which an object reflects or absorbs light depends on both the wavelength of the emitted light and the color of the object. This property can be used to detect colors.

7. Easy Adjustment

Positioning the beam on an object is simple with models that emit visible light because the beam is visible.

Operating Principles For Photoelectric Sensors

Sabri Cetinkunt

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