

## OPERATING PRINCIPLES FOR PHOTOELECTRIC SENSORS

These sensors use light sensitive elements to detect objects and are made up of an emitter (light source) and a receiver. Four types of photoelectric sensors are available.

**Direct Reflection** - emitter and receiver are housed together and use the light reflected directly off the object for detection. In the use of these photocells, it is important to bear in mind the color and the type of surface of the object. With opaque surfaces, the sensing distance is affected by the color of the object. Light colors correspond to the maximum distances and vice versa. In the case of shiny objects, the effect of the surface is more important than the color. The sensing distance in the technical data is related to matte white paper.

**Reflection with Reflector** - emitter and receiver are housed together and requires a reflector. An object is detected when it interrupts the light beam between the sensor and reflector. These photocells allow longer sensing distances, as the rays emitted are almost totally reflected towards the receiver.

**Polarized Reflection with Reflector** - similar to Reflection with Reflector, these photocells use an anti-reflex device. The use of such a device, which bases its functioning on a polarized band of light, offers considerable advantages and secure readings even when the object to be sensed has a very shiny surface. They are not in the technical data affected by random reflections.

**Thru Beam** - emitter and receiver are housed separately and detect an object when it interrupts the light beam between the emitter and receiver. These photocells allow for the longest distances.

**Light On / Dark On Types Of Output:** For the photocell, the same terminology as inductive and capacitive sensors is used: NO = normally open, NC = normally closed. This refers to the state of the unit in the absence of the product to be sensed. In the case of photocells, light on / dark on is used. In the case of the direct reflection types, NO is light on and NC is dark on. For the other types, NO is dark on and NC is light on.

**Sensing Distance (Sn):** The space in which it is possible to sense an object. In the case of direct reflection types, it is the maximum distance between the photocell and the object. In the case of reflector or barrier types, it is the distance between the unit and the reflector or between units.

**Power Supply:** The supply voltage range that sensor will operate at.

**Power On Delay:** This is the time lapse between providing power and the operation of the output. This is to avoid unwanted switching when the unit is powered.

**Power Drain:** The amount of current required to operate a sensor.

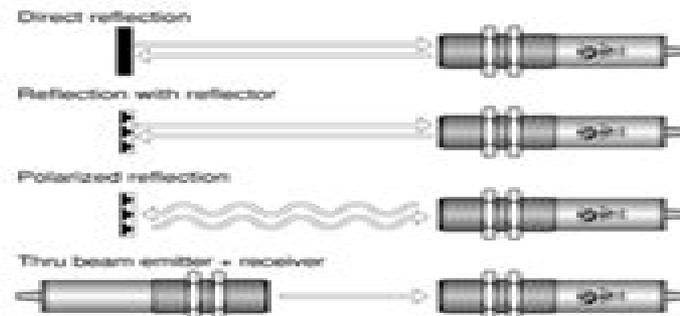
**Voltage Drop:** The voltage drop across a sensor when driving the maximum load.

**Switching Current (Max):** The amount of continuous current allowed to flow through the sensor without causing damage to the sensor. It is given as a maximum value.

**Short Circuit Protection:** Protection against damage to a sensor if the load becomes shorted.

**Operating Frequency:** The maximum number of on/off cycles that the device is capable of in one second. According to EN 50010.

**Light Immunity:** The maximum limit of an incandescent light or sunlight. Beyond this limit, the photocell may not work correctly due to interference on the receiver.



# Operating Principles For Photoelectric Sensors

**Daniela Niemeyer**



## **Operating Principles For Photoelectric Sensors:**

**Control Systems in Textile Machines** G. Nagarajan, G. Ramakrishnan, 2024-12-05 This book details the mechanics of textile machines and covers the fundamental concepts and advanced applications of their control systems It presents conceptual information discusses practical equipment and analyses the machines used in various stages of the spinning process Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan or Bhutan *Mobile Sensors and Context-Aware Computing* Manish J. Gajjar, 2017-02-22 Mobile Sensors and Context Aware Computing is a useful guide that explains how hardware software sensors and operating systems converge to create a new generation of context aware mobile applications This cohesive guide to the mobile computing landscape demonstrates innovative mobile and sensor solutions for platforms that deliver enhanced personalized user experiences with examples including the fast growing domains of mobile health and vehicular networking Users will learn how the convergence of mobile and sensors facilitates cyber physical systems and the Internet of Things and how applications which directly interact with the physical world are becoming more and more compatible The authors cover both the platform components and key issues of security privacy power management and wireless interaction with other systems Shows how sensor validation calibration and integration impact application design and power management Explains specific implementations for pervasive and context aware computing such as navigation and timing Demonstrates how mobile applications can satisfy usability concerns such as know me free me link me and express me Covers a broad range of application areas including ad hoc networking gaming and photography *Sensors in Science and Technology* Ekbert Hering, Gert Schönfelder, 2022-01-21 Sensors are used to measure physical chemical and biological quantities The book offers a comprehensive overview of physical principles functions and applications of sensors It is structured according to the fields of activity of sensors and shows their application by means of typical examples Measured variables that can be recorded by sensors are e g mechanical dynamic thermal electrical and magnetic Furthermore optical and acoustical sensors are discussed in detail in the book The sensor signals are recorded processed and converted into control signals for actuators Such sensor systems are also presented **Industrial Control Technology** Peng Zhang, 2008-08-12 This handbook gives comprehensive coverage of all kinds of industrial control systems to help engineers and researchers correctly and efficiently implement their projects It is an indispensable guide and references for anyone involved in control automation computer networks and robotics in industry and academia alike Whether you are part of the manufacturing sector large scale infrastructure systems or processing technologies this book is the key to learning and implementing real time and distributed control applications It covers working at the device and machine level as well as the wider environments of plant and enterprise It includes information on sensors and actuators computer hardware system interfaces digital controllers that perform programs and protocols the embedded applications software data communications in distributed control systems and the system routines that make control systems more user friendly and safe to operate This

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*Concise International Encyclopedia of Robotics* Richard C. Dorf,Shimon Y. Nof,1990-04-30 This volume a condensation of the highly regarded International Encyclopedia of Robotics serves as an invaluable guide to the rapidly growing field of robotics None of the articles from the earlier three volume work has been omitted Instead the articles have been shortened and where necessary updated to provide a ready reference tool for professionals seeking to understand and gain from the use of robots and automation Written by a wide variety of experts the articles are cross referenced and include extensive bibliographic information The articles provide thorough coverage of all of the associated theoretical aspects of robotics as well as most of the present and future applications Stressing readability accuracy and ease

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