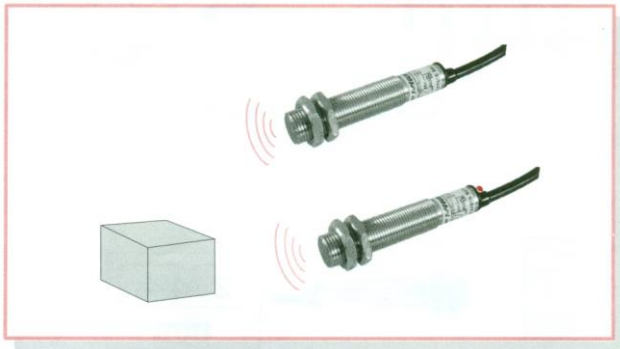
What is sensor?

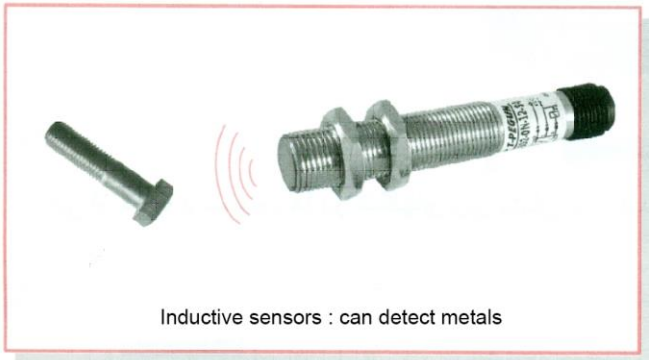
A sensor is a sensing element that converts physical quantities such as pressure, temperature, humidity, etc., into continuous (analog) or discrete (digital) electrical quantities. These sensors are used in various measuring devices, analog and digital control systems such as PLCs. The performance of sensors and their ability to connect to various devices like PLCs have made them an inseparable component of automatic control systems. Sensors send various information about the status of a system's moving parts to the control unit, causing changes in the operation of devices.

Non-Contact Sensors

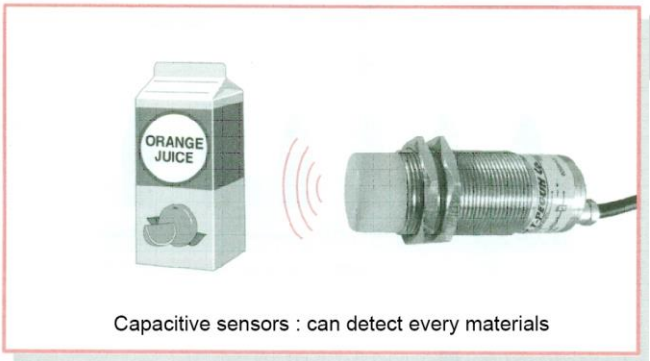
Non-contact sensors are sensors that detect the presence of an object as it approaches and become active. As shown in the figure below, this action can result in the activation of a relay, contactor, or the transmission of an electrical signal to the input stage of a system.

Types of Non-Contact Sensors

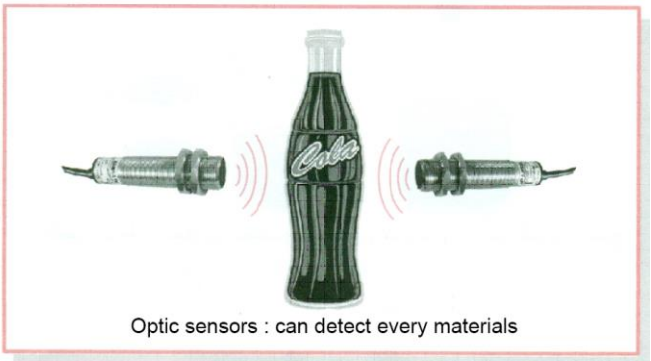




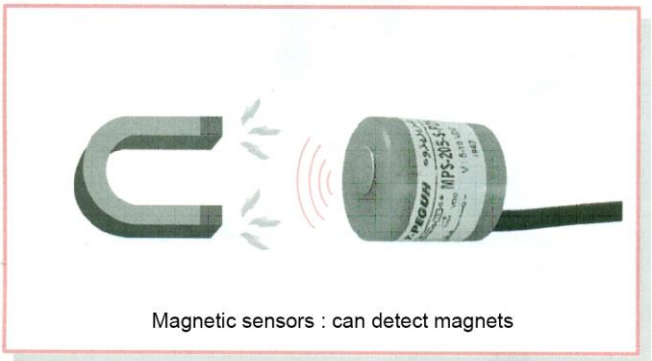
Inductive sensors : can detect metals



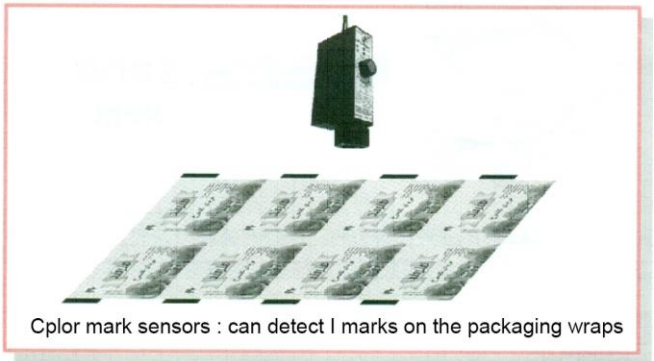
Capacitive sensors : can detect every materials



Optic sensors : can detect every materials



Magnetic sensors : can detect magnets



Cplor mark sensors : can detect I marks on the packaging wraps

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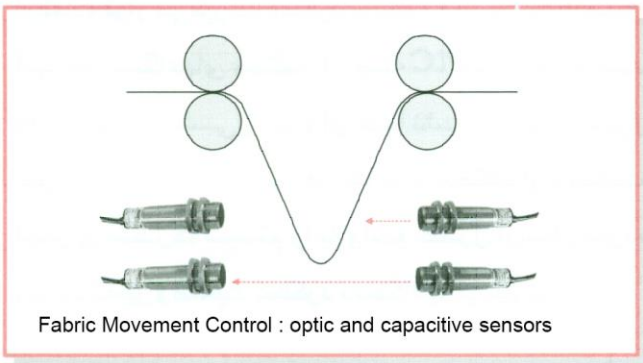
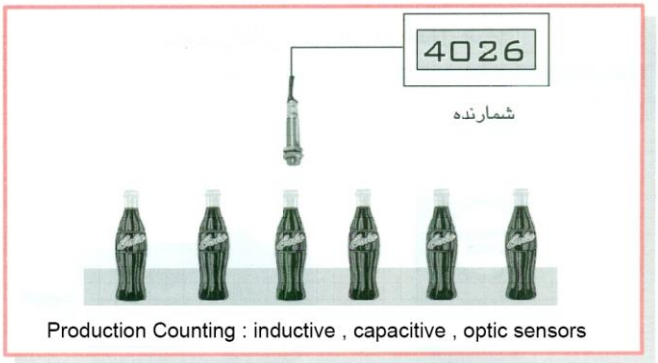
Applications of Sensors

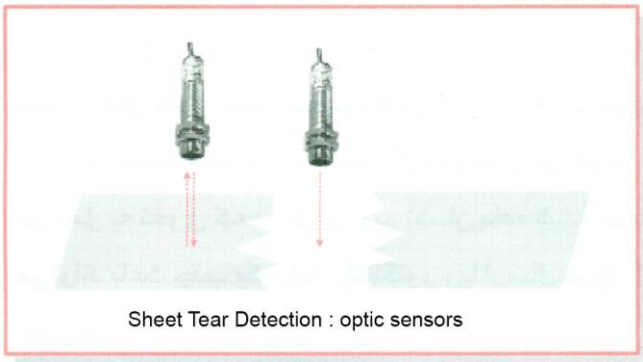
Some applications of sensors are shown in the figure below.



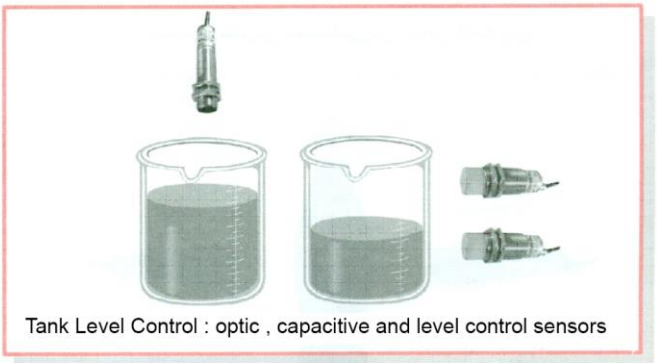
Fabric Movement Control : optic and capacitive sensors



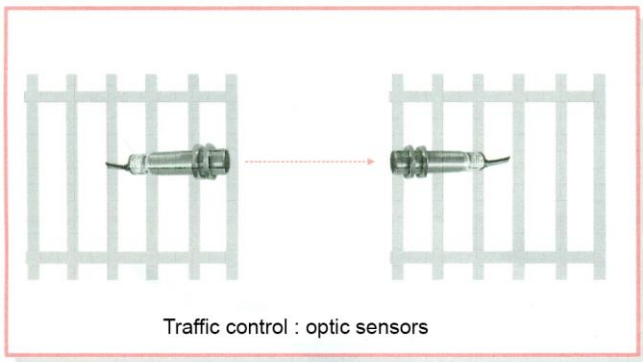
Production Counting : inductive , capacitive , optic sensors



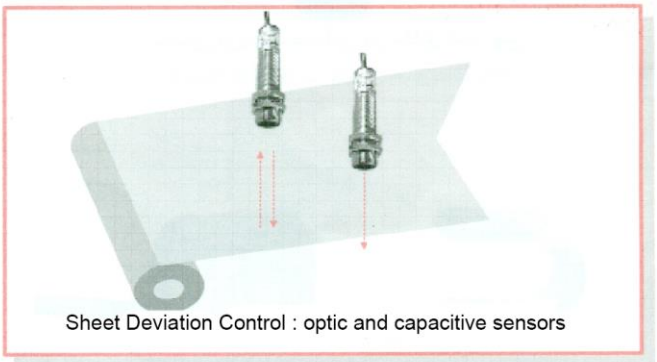
Sheet Tear Detection : optic sensors



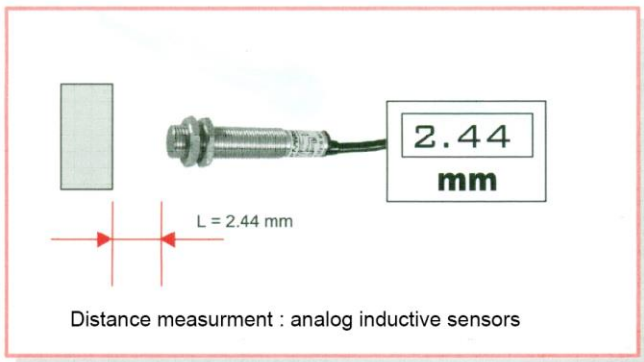
Tank Level Control : optic , capacitive and level control sensors



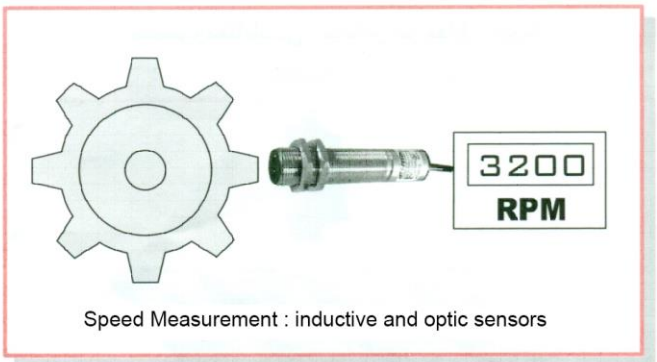
Traffic control : optic sensors



Sheet Deviation Control : optic and capacitive sensors



Distance measurment : analog inductive sensors



Speed Measurement : inductive and optic sensors