

Smart Factory Photoeye Sensor 3 | Siemens S7-1500 Learning System

Smart Photoelectric Sensors - WX33749-AA01XEN-E1

Objective 4: Describe the Operation of a Smart Photoelectric Sensor in a PLC Project

Program Example

Smart Sensor's Light-Source Path Intact 1 of 3

This PLC program shows how a smart sensor can control a box-closing sequence.

The box-closing cycle starts when a conveyed box breaks the sensor's light-source path.

This break causes the sensor to transmit an "open contacts" signal via the IO-Link data channel, which changes the PLC's object-detection tag, Triggered, from one to zero.

The tag's change causes the normally open contact instruction that references Triggered to turn true, which starts the box-closing sequence.

Click here to see a smart sensor control a box-closing sequence.

Next Slide

Light-Source Path Intact

Both LEDs On

This page is interactive. Click anywhere to hide the instructions.

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Smart Factory Sensor Learning System: 87-SN3S715

This system teaches communications between a smart photoelectric sensor and other connected automated devices in a [Smart Factory](#) environment.

Amatrol's [Smart Factory](#) training systems feature real-world scenarios and describe equipment learners will encounter on the job, including smart pressure sensors. The systems combine hands-on skills practice with in-depth multimedia curriculum for a well-rounded learning experience that will prepare learners to make an immediate impact in the technologically-advanced Smart Factory environments of the present and future.

Teach Hands-On Skills

Engaging, Highly-Interactive Multimedia

Amatrol's curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.

Learn Industry-Applicable Photoeye Sensor Skills

Amatrol's comprehensive curriculum covers a wide variety of important photoeye sensor skills. For example, learners will study smart photoelectric sensors and an I/O-Link Master. Additional skills and topics include configuring a smart photoelectric sensor in a Smart Factory PLC project and designing Smart Factory PLC projects that use smart photoelectric sensors.

Additional Info

- **Additional Requirements**

- Computer: See Requirements
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