

# Smart Factory Mechatronics RF Identification | Siemens S7-1500 Multimedia Courseware

**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 Mechatronics RF Identification: M33737

This course will help learners to gain an understanding of RFID operation and programming through topics like types and applications of RFID tags, the operation of an RFID system and factors that affect it, the function, operation, and configuration of an IO-Link Master, and the operation of an RFID function block instruction.

Amatrol's [Smart Factory](#) training systems describes real-world equipment learners will encounter on the job, including RF Identification systems. The systems offers 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 RF Skills

### Practice on Real-World Equipment Using Smart Factory Components

Amatrol's Smart Factory RFID training systems teach learners essential skills they'll use in the workplace. For example, learners will gain valuable experience with an RFID read/write module with an RFID tag and parts set. Using this courseware, learners will practice specific skills, such as designing a PLC project that uses an RFID function block instruction.

### Learn Industry-Applicable RFID Skills

With Amatrol's comprehensive curriculum, students cover essential RFID skills. For example, learners will study the operation of a RF Identification in a PLC project. Additional skills include designing and operating a Smart Factory PLC project that uses RFID.

## Multimedia

### 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.

## **Additional Info**

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- **Additional Requirements**

- Computer: See Requirements

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