

Smart Factory Ultrasonic Sensor - AB L16 | Multimedia Courseware

Smart Ultrasonic Sensors - W33769-AA01XEN-E1

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

Smart Sensor Program Logic

Tank Level

Once configured in the project, smart sensor process data received from the I/O-Link Master is stored in a PLC memory location. Data includes the measurement value, diagnostic information, and discrete outputs.

The PLC program uses sensor process data to control the machine or process and provide operating status to the operator.

This HMI screen, for example, displays the smart sensor distance measurement as a level value with indicators notifying users when the level is out of limits.

Tank Level (m)

Level Alarms

Too High Too Low

Manual Pump Control

Start Stop

Main Menu

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eLearning Course: M33769

This course teaches network communications between an ultrasonic sensor and other smart automation devices in a Smart Factory environment. Learners will study smart sensor function; smart ultrasonic sensor operation and configuration; and smart ultrasonic sensor in a PLC project operation.

Teach Ultrasonic Sensors

Industry-Applicable Ultrasonic Sensor Skills

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

Interactive eLearning

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

Requires:

- Computer: [See requirements](#)

Options:

- Smart Factory Ultrasonic Sensor Learning System - AB CompactLogix L16 (87-SN2AB53A)
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