

Smart Factory Analog Position Sensor - AB L16 | Multimedia Courseware

Smart Analog Position Sensors - W33773-AA01XEN-E1

Objective 1: Describe the Function of a Smart Sensor

Smart Sensor Function

Sensors are devices that detect or measure a physical feature and transmit a signal to a control device.

A smart sensor is a sensor that has embedded intelligence and network communications capability. Smart sensors use a microprocessor, memory, and other logic components to communicate data to a controller via a network connection and to perform independent operations.

The diagram illustrates the Smart Sensor Function. At the top, a 'Controller' is connected to an 'IO-Link Master' via a green cable. The 'IO-Link Master' is a rack-mounted unit with multiple ports. Below it, several 'IO-Link Smart Sensors and Devices' are connected to the master via yellow cables. These sensors are shown in a red-bordered box at the bottom. The sensors include a cylindrical inductive sensor, a square flange sensor, and a smaller cylindrical sensor. The diagram shows the flow of data from the sensors through the master to the controller.

AMATROL

Page 2 of 34

eLearning Course: M33773

This course teaches bi-directional communications between analog position sensors and other intelligent automation devices in a Smart Factory environment to communicate data via I/O Link protocol.

Teach Analog Positioning

Industry-Applicable Analog Sensor Skills

With Amatrol's comprehensive curriculum, students cover a wide variety of Analog Sensor skills. For example, learners will study Ethernet communications modules, and Analog Position Sensor modules. Additional skills and topics include smart sensor concepts, operation, set-up, and configuration; PLC programming; and I/O Link protocol.

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 Analog Position Sensor Learning System - AB CompactLogix L16 (87-SN7AB53A)

Address

**Amatrol
2400 Centennial Blvd
Jeffersonville, IN 47130**

Contacts

**email: contact@amatrol.com
phone: (800) 264 8285**