Sensor Fundamentals

Course Description
Purpose of the Course

The Sensor Fundamentals Course will enable someone to select the correct sensor for a given application.

Length of the Course

The Sensor Fundamentals Course takes one day.

Prerequisites of the Course

Participants must have a basic understanding of how to navigate in a Windows® environment on a personal computer.

Structure of the Course

The Sensor Fundamentals Course uses a hands-on approach. Each pair of participants will share a sensor demo which contains a sampling of various sensor types. This demo case is used in the lab exercises. It contains inductive, capacitive, ultrasonic, photoelectric (three types), magnetic linear, and transducer type sensors.
Outline of the Course

The Sensor Fundamentals Course covers the following learning objectives:

Overview
• Identify the six sensor families
• Describe the basic operating technology for the 14 sensor types

Selecting the right sensor
• Calculating needed response time for an application
• Match a specific sensor from a sensor family to a specific application requirement
• Use the Sensor Selector Tool - an electronic job aid

Connecting a sensor
• Wire a sensor to an input module
• Connect a sensor to a distributed IO block
• Determine if a sensor is PNP or NPN

Installing a sensor
• Mounting considerations
• Beam Patterns and how they affect installation
• Teaching / Tuning a sensor

Configuring a sensor
• Changing a sensor's operating mode
• Changing sensor parameters

Troubleshooting a sensor
• Interpreting LEDs
• Replacing a sensor

Price of the Course
Contact your Balluff distributor or contact Balluff directly for pricing.