Centre for Advancement & Continuing Education (ACE)

Course Background / Summary:

This course describes optical proximity sensing principles and technology, as well as the associated specialty fiber types and components required for their system integration. A broad overview of diverse applications is made with a particular emphasis on object detection. Technical personals, trainers, and instructors who wish to widen their knowledge of optical proximity sensor technology and application.

Course Objectives:

- Become familiar with the terminology used to describe the switching performance of optical proximity sensor
- Become familiar with the response characteristic of a through-beam sensor
- Determine which materials can be detected with the sensor
- Become familiar with the range of applications and response characteristics of a retroreflective sensor
- Become familiar with the range of applications of optical proximity switches with fiberoptic cable.
- Become familiar with the setup and function of an optical diffuse light sensor.

Target Audience:

• Technical managers, scientists, engineers, technicians, and research students who wish to learn about optical-sensing technology and review its implementation and applications for industry use.

Course Contents

Course Duration: 3 Days

.0 Sensor Terms, Multi Sensor System, haracteristics 4.0 Optical Proximity Sensor - Types and Types of Reflection .0 Optical Proximity Sensor - Design 5.0 Optical Proximity Sensor - Fibre- Optic Cable Layouts		
0 Optical Proximity Sensor – Design Optic Cable Layouts	.0 Sensor Terms, Multi Sensor System, haracteristics	4.0 Optical Proximity Sensor – Types and Types of Reflection
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.0 Optical Proximity Sensor – Basic ircuit Diagram 6.0 Practical with Applications	.0 Optical Proximity Sensor – Basic ircuit Diagram	6.0 Practical with Applications

Course Code: EEA 178

