

# PROFINET IO Safety Laser Scanner Configuration Training

## SICK LifeTime Services Training Course



### Description

Participants develop knowledge of how to apply PROFINET IO versions of safety laser scanners. Product features, installation, configuration and CDS (SICK Configuration and Diagnostic Software) or SD (Safety Designer) are examined – depending on scanner model. This training introduces participants on how to configure both a Profinet IO safety laser scanners for use in safety system controlled by a Siemens S7 and the setup procedures for the S7 to use ProfiNet IO safety laser scanners in its safety control system. The instructor will share presentations and product demonstrations using either an online meeting tool, or when delivered at customer site or at the SICK North American Training Center, a hands on learning experience. Exercise tasks will be used to monitor participant’s competency as the training progresses.

### Objectives

- Review functionality and appropriate applications for Profinet IO safety scanners
- Acquire the knowledge of Profinet IO safety scanner LEDs to determine system status and scanner state
- Understand proper wiring techniques needed for safety scanners
- Configure system parameters and network addressing
- Establish how Profinet IO is assigned
- Increase knowledge of how to assign PROFINET alarms
- Recognize and correct product alerts for poor alignment and contamination
- Develop knowledge of how to use system HMI or CDS to access Profinet Online monitor

### Course Benefits

- Learn how to install and/or replace a Profinet IO safety laser scanner in a minimum amount of time
- Use configuration software to quickly configure a Profinet IO safety laser scanner
- Save and load a scanner configuration to a replacement scanner in a minimum of time
- Use diagnostic tools to quickly troubleshoot a system problem



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### Target Audience

Technical Staff, Maintenance Managers, Integrators and Plant Engineers

### Prerequisites

- Successful completion of Safety Scanner Configuration Training module

### Recommended Additional Course

- See prerequisite above
- Safety Scanner Maintenance Training

### Duration

2 Hours

### Class Size

Maximum of 8

### Where Offered

- Customer site
- SICK North American Training Center
- Online meeting

### Format

Presentation, demonstration, and exercises/quizzes

### Testing Available

Yes

### Customer Required Materials

For training at customer site, at a minimum, for every two participants:

- PC with SICK CDS or SD software installed prior to attending
- Minimum of two (2) 110 VAC outlets

For virtual training:

- PC with SICK CDS or SD software installed prior to attending
- Online meeting tool installed (if necessary) prior to attending

### Logistics

The following must be made available for the duration of the training:

- A suitable training room/area
- For in-person training at customer site or at the SICK North American Training Center, SICK provides hardware workstations for the hands-on experience

Failure to have the customer required material and/or logistics available may lead to ineffective training and may result in the class not being able to achieve the described objectives and course benefits.

### Part Number

1069316

Travel expenses additional. Please contact SICK for information.

### SICK Training & Education

From product training, start-up assistance, and engineering and consulting services – SICK provides the necessary support before and after field installation through an established network of field personnel. Training, service and support programs from SICK help you reach your goals with our innovative, cost-effective solutions.

SICK offers several types of training programs to help you learn more about our innovative products and systems. Many of our training modules offer hands-on, real-world application examples and problem-solving experiences. Please visit our website at <http://www.sickusa.com> for more information.