



# Field Notes Bulletin

TECHNICAL SUPPORT

P/N FN00021

## SIGA Detectors: Internal Faults and Nuisance Alarms

### Introduction

This bulletin informs you of an issue related to the installation of SIGA smoke detectors and tells you how to resolve it.

This bulletin supersedes Technical Fax #110001 and Technical Fax #060202.

### Issue

We have received several reports of intermittent troubles and in some cases nuisance alarms when SIGA smoke detectors are installed close to some types of fluorescent or LED light fixtures.

Electronic noise generated by solid state lamps and ballasts in some types of fluorescent or LED light fixtures may cause SIGA smoke detectors to report a trouble condition, or in extreme cases signal an alarm condition. Typically, this issue occurs when the smoke detector is installed within 12 to 36 inches of the light fixture.

If you have a SIGA smoke detector that is reporting trouble conditions or nuisance alarms, and it is installed close to a fluorescent or LED light fixture:

1. Using your control unit's configuration utility, upload the diagnostics trouble tables for the signaling line circuit associated with the device in trouble/alarm.
2. Verify whether any of following trouble bits are listed:
  - Trouble Bit 30 = 'Quiescent value optical sensor too low'
  - Minimum quiescent value too low
  - Optical quiescent 8 filter too low
3. If one of the trouble bits listed above is present, implement one or more of the solutions listed in the following section.

After implementing one or more of the solutions, execute a RESTART in order to clear the old trouble bit and verify that the trouble stays cleared.



## Solution

1. Make sure the light fixture is properly grounded.
2. Rotate the detector 180° horizontally.
3. For SIGA Optica smoke detectors, move the detector at least 12 inches away from the light fixture.  
For all other SIGA smoke detectors, move the detector at least 36 inches away from the light fixture.

## Contacting support

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