

# 24V & 48V DC Smoke Detector with Alarm w/ Sounder, Output Relay and Optional PIR Motion Detector



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Communication Power Solutions, Inc. (CPS, Inc.) offers the **OSD308 Smoke Detector**, a modified Commercial Grade Smoke Detector suitable for use in enclosed areas. This product is assembled and modified, for use in 24Vdc & 48Vdc telecommunication applications.

The OSD308 Series self-diagnostic, photoelectric, four wire smoke detector continuously monitors their own sensitivity and operational status, and provides a visual trouble indication if they drift out of sensitivity range or fail internal diagnostics. This unique, patented technology meets NFPA 72 field sensitivity testing requirements without the need for external meters.

Testing can be activated by pressing the LED/Test Button on top of the smoke detector for greater than 5 seconds. The siren initiates a clicking noise during this time. Alarm activation is indicated by the LED, the siren, and the alarm reporting to the alarm block. Smoke Detectors can also be integrated with the optional PIR Motion Detectors. Please allow a minimum of 20 seconds between test activations.

When the alarm is functioning normally, the LED will flash every fifty seconds to show normal operation. The unit requires servicing when the LED does not flash and the sounder chirps continuously every 50 seconds.

This unit meets NFPA 72 field sensitivity testing requirements. The smoke detector has a nominal fixed alarm sensitivity and will go into alarm when the signal level exceeds the 'alarm' threshold. During an alarm, the LED will flash once per second and the siren will sound the evacuation temporal pattern.

## Features:

- ◆ Intelligent, self-diagnostics
- ◆ On-site maintenance alert
- ◆ Field replaceable optical chamber
- ◆ Low-profile design
- ◆ Advanced false alarm immunity.
- ◆ Alarm relay for connection to system alarms.
- ◆ Rate-of-rise or Fixed Temperature Heat Sensor
- ◆ Piezoelectric alarm with Three-Temporal sound
- ◆ Compatible with P.I.R Motion Detector



Motion Detector (Optional)

**Suitable replacement for the OSD223  
and upgradable to PIR Motion  
Detector option**

## Specifications:

- ◆ California State Fire Marshal approved
- ◆ MEA (Maryland) approved
- ◆ Sensitivity 3.8% to 2.20% per ft.
- ◆ Operating voltage: 10-33 VDC or 17-60 VDC with Adapter
- ◆ Heat Sensor Rating: Fixed 135°F (57°C)
- ◆ Contact rating: 2.0 Amp @ 24 VDC or 1.0 Amp @ 48 VDC

## Models:

- ◆ OSD308-24
- ◆ OSD308-48
- ◆ UL rated unit
- ◆ ULC rated unit

