

**Direct replacement for the OSD223-24 and  
OSD223-48 units**

### Specifications:

- ◆ California State Fire Marshal approved
- ◆ MEA (Maryland) approved
- ◆ Sensitivity 3.08% to 0.98% per ft.
- ◆ Operating voltage: 10-33 VDC or 17-60 VDC with Adapter
- ◆ Heat Sensor Rating: Fixed 135°F (57°C)
- ◆ Contact rating: 1 Amp @ 24 VDC or 0.5 Amp @ 48 VDC

### Models:

- ◆ OSD243-24
- ◆ OSD243-48

### Listings:

- ◆ CSFM, MEA
- ◆ State of Maryland
- ◆ UL 268 and CAN/ULC-S531

## 24V & 48V DC Smoke Detector with Alarm

Communication Power Solutions, Inc. (CPS, Inc.) offers the **OSD243 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 OSD243 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.

Sensitivity testing is activated by applying a magnet to the raised "TEST" letters on top of the smoke detector for 2 seconds. Alarm LED will flash 1 to 9 times indicating the sensitivity level, or if service is required. If Alarm LED flashes 0-1 times, the unit is unserviceable due to hardware fault. If Alarm LED flashes 2-3 times, the unit is becoming insensitive and may need to be cleaned. If Alarm LED flashes 4-7 times, the unit is within its normal sensitivity range and is functioning properly. If Alarm LED flashes 8-9 times, the unit is becoming too sensitive. Ensure that the optical chamber is snapped down securely.

When the alarm is functioning normally, the LED will flash every nine seconds to show normal operation. A confirmed alarm causes the normally flashing power indicator LED to light continuously and the alarm relay to operate. A trouble indication is automatically displayed by flashing the LED every 50 seconds.

This unit meets NFPA 72 field sensitivity testing requirements. It also comes with an internal 85 decibel horn that emits a Temporal-Three alarm signal when the detector alarms and a steady tone when the power polarity is reversed.



### 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
- ◆ 85 dB Temporal-Three Sounders

Model OSD243 (-48)  
Smoke Detector  
Wiring for -48 VDC operation

