

## Overview

The GE 511C is a conventional photoelectric, direct-wire smoke detector with drift compensation.

The 511C continually monitors its own sensitivity and operational status, and provides a visual indication if it drifts out of the sensitivity range or fails internal diagnostics.

Time between cleaning detectors is dramatically increased because of the 511C's built-in drift compensation. This feature, usually only available in analog systems, allows the detector to automatically adjust its sensitivity over time as it becomes dirty, increasing the life of the detector. And, when the 511C needs cleaning, it's literally a snap with GE's patented field replaceable optical chamber.

The GE 511C photoelectric smoke detector is a low-profile, self-diagnostic, two-wire detector that monitors its own sensitivity and operational status. This detector meets NFPA 72 field sensitivity requirements without the need for external meters.

Built-in drift compensation automatically adjusts the sensitivity as the detector gets dirty. Normal sensing occurs every 9 seconds. This rate doubles when a signal exceeding the alarm threshold value is sensed. Two additional successive signals above the threshold level will initiate an alarm.

See installation instructions for information about correct installation and maintenance.

## Standard Features

- Built-in drift compensation reduces nuisance alarms
- Field-replaceable optical chamber makes servicing a snap
- Small, low-profile design blends in with any environment

# Two-Wire Conventional Smoke Detector 511C



U.S.  
T 888-GESECURITY  
F 503-691-7566

Canada  
T 519 376 2430  
F 519 376 7258

Asia  
T 852 2907 8108  
F 852 2142 5063

Latin America  
T 305 593 4301  
F 305 593 4300

[www.gesecurity.com/fireworx](http://www.gesecurity.com/fireworx)

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## Smoke Detector Technology

Most homes have battery operated ionization smoke detectors. These detectors react quickly to flaming fires but usually take longer to detect smoldering fires – the most common type of fire that occurs in homes. GE 511C smoke detectors utilize photoelectric smoke detection technology. Photoelectric smoke detectors continually analyze the air for smoke particles and are more sensitive to smoldering fires than ionization detectors. Installing both ionization and photoelectric smoke detectors in your home provides the best possible protection for you and your family.

## Specifications

Electrical	
Voltage	12/24 VDC (8.5-33 VDC), polarity sensitive
Maximum standby current	70µA
Maximum alarm current	60mA
Minimum reset time	1 sec
Environmental	
Photoelectric sensitivity	3.1%+0.5% -1%
Operating temperature	32°F to 100°F (0°C to 37.8°C)
Operating humidity	0-95% non-condensing
Physical	
Color	White
Packaging	10 detectors per carton
Detector dimensions	5" x 2" (12 x 5cm)
Base dimensions	4.75" x 0.3" (12.5 x 0.8cm)
Drift compensation adjustment	1%/ft. max
Field wiring size	12-24AWG
Regulations	
Listing	UL 268, CSFM
UL compatibility identifier	S10A

## Ordering Information

Model	Description	Listing
511C	Photoelectric Smoke Detector, 2-wire, 12/24VDC, white	UL268

Accessories	
401	Test magnet in a plastic shell for pole mounting
SM200-12PKG	Smoke! in a Can® aerosol spray for functional testing
SM-EXT 1	Smoke! in a Can® extension tube connects directly to can
211-10PKG	Replacement optical chambers (package of 10)
500PLT-5PKG	511C to 400 Series adaptor plate, 6"



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