

Because Lives, Property and Businesses aren't Fireproof.



## Series H511C / H511CXT

Low Profile, Two-Wire, Photoelectric Smoke Detector

Harrington Signal Inc.  
2519 4th Avenue, Moline, Illinois 61265  
P.O. Box 590, Moline, Illinois 61266-0590  
Phone: (800) 577-5758 Local: (309) 762-0731 Fax: (309) 762-8215  
Internet: www.harringtonfire.com



### Features

- Smart dual fixed heats work with photo chamber to catch fires faster
- Built-in drift compensation reduces false alarms
- Field replaceable optical chamber makes servicing a snap
- Small, low profile design blends in with any environment

### Applications

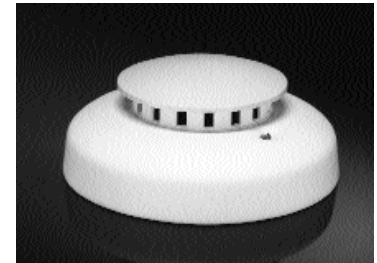
The Harrington H511 Series two-wire smoke detectors are conventional direct-wire smoke detectors with drift compensation, and multi-criteria detection.

The H511 Series continually monitor their own sensitivity and operational status, and provide a visual and remote trouble condition if they drift out of the sensitivity range or fail internal diagnostics. This meets NFPA 72 field sensitivity testing requirements without the need for external meters.

Time between detector cleaning is dramatically increased because of the H511 Series' 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. When cleaning is necessary, it's literally a snap with HSI's field replaceable optical chamber.

The multi-criteria model H511CXT photoelectric smoke detector with fixed heat detector includes fast response algorithms for a quick response to both flaming and smoldering fires. Fast response algorithms allow the heat detectors to work intelligently together with the photoelectric smoke detector. As soon as the heat sensor detects a rapid rise in temperature, the sensitivity of the photoelectric sensor increases allowing it to detect smaller particles of combustion faster.



Low Profile, Two-Wire, Photoelectric Smoke detector H511C / H511CXT

### Available Models

Model Number	Part Number	Description
H511C	340-0001	2 wire, photoelectric detector, 24 VDC. UL Listed.
H511C-10PK	340-0003	Bulk pack of (10) H511C detectors with 1 set of literature
H511CXT	340-0004	2 wire, photoelectric detector, 24 VDC with multi-criteria algorithms, fixed heat, UL listed.
H511CXT-10PK	340-0002	Bulk pack of (10) H511CXT detectors with 1 set of literature
<b>Accessories</b>		
401	440-5004	Test magnet in plastic shell for pole mounting
SM-200	440-5000	Smoke in a Can® (canned smoke) for functional testing of smoke detectors
211	440-5005	Replacement optical chambers (set of 10)

### Ordering Information:

Model Number      Part Number  
**H511C - 340-0001**  
Series

## Series H511

## Low Profile, Two-Wire, Photoelectric Smoke Detector

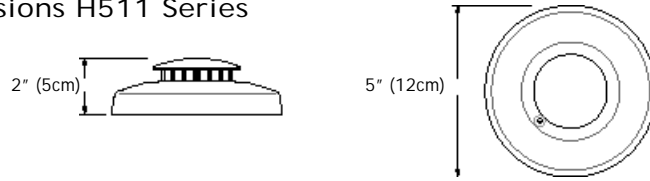
### Architect & Engineering Specifications

The Harrington Series H511 photoelectric smoke detector is a low-profile, 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.

The optical sensing chamber is field replaceable, allowing quick and easy cleaning and maintenance.

### Dimensions H511 Series



### Technical

Model Number	Characteristic	Description
H511	Voltage	24 VDC
	Maximum ripple (pk to pk)	10% (V p-p)
	Typical average standby current (24V)	70µA
	Typical alarm current (24V)	up to 60mA max, if not limited by control panel
	Alarm contacts	500mA @ 36 VDC (resistive)
	Sensitivity - photoelectric	3.1% + 0.50 - 1.00%
	Operating temperature	32°F to 100°F (0° to 37°C)
	Operating humidity range	0 to 95% Non-condensing
	RFI Immunity	20 V/m minimum; 0-1000MHz
	Color	White head and base
	Field wiring size	12-24 AWG
	Heat detector specifications	Fixed 135°F
	UL two-wire compatibility identifier	
	Drift compensation adjustment	1.0%/ft. maximum
	Detector head dimensions	5" (12 cm) diameter 2" (5 cm) height
	Mounting dimensions	4.75" (12.5 cm) diameter; 0.3" (0.8 cm) height
	Reset time	1 second minimum
Listings	UL	

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice.