



Accessories  
Conventional  
Smoke Detectors



ASPIRATION



AV



BEAM



CO



HVAC



SPOT



SPRINKLER



MODULES



RELAYS





## Take Smoke Detection to a **New Level**

Installation Ease. Intelligence. Instant Inspection. These are the guiding principles of System Sensor's i<sup>3</sup> Series photoelectric smoke detectors. Designed to take conventional smoke detectors to a new level, these principles translate directly into significantly lower installation, testing, and maintenance costs.

### Installation Ease

Because of its plug-in design, installing i<sup>3</sup> is quick and simple. Efficient wire management and pre-wiring capabilities slash installation time. To complete the installation, simply Stop-Drop 'N Lock™ the head onto the base.

### Intelligence

The i<sup>3</sup> Series offers intelligence through drift compensation and smoothing algorithms to reduce unnecessary maintenance calls. And when a 2-wire i<sup>3</sup> detector needs cleaning, its remote maintenance signal lets you know.

### Instant Inspection

Green and red LEDs make status indication more intuitive on the i<sup>3</sup> detector. And with the i<sup>3</sup> reader, detector sensitivity measurement is precise and complete within seconds. Both features reduce inspection time to an instant.

Simply put, the i<sup>3</sup> Series' principles translate into lower installation, testing, and maintenance costs.



**2WTA-B**  
i<sup>3</sup> Series Smoke Detector  
with Sounder

# 40%

Residential fire deaths that occur  
with no smoke detection.

# Features and Benefits

The i<sup>3</sup> Series now features a complete line of smoke detectors. Standard, Sounder, Auxiliary Form C Relay, and Isolated Thermal – the choice is yours.

## Standard

Most applications call for a standard detector. Whether the installation is an office building, retail establishment, hotel, or residence, the i<sup>3</sup> Series installs easily, reduces nuisance calls, and dramatically reduces inspection and scheduled maintenance costs.

## Sounder

Should the application require an audible output, the i<sup>3</sup> Series now offers two- and four-wire sounder models. Ideal for residential applications, these units generate an 85 dBA temporal 3 tone and can easily be synchronized with the i<sup>3</sup> reversing relay/synchronization module.

## Auxiliary Form C Relay

When controlling auxiliary functions such as elevator recall or door closure, the i<sup>3</sup> Series offers both two- and four-wire Form C relay models, available either with or without an integral sounder.

## Isolated Thermal

To differentiate between a local and a general alarm, the i<sup>3</sup> line offers an isolated thermal model. Ideal for dormitories, retirement facilities, and lofts, this four-wire model initiates a local alarm when smoke is detected and a general alarm when the thermal sensor is activated.

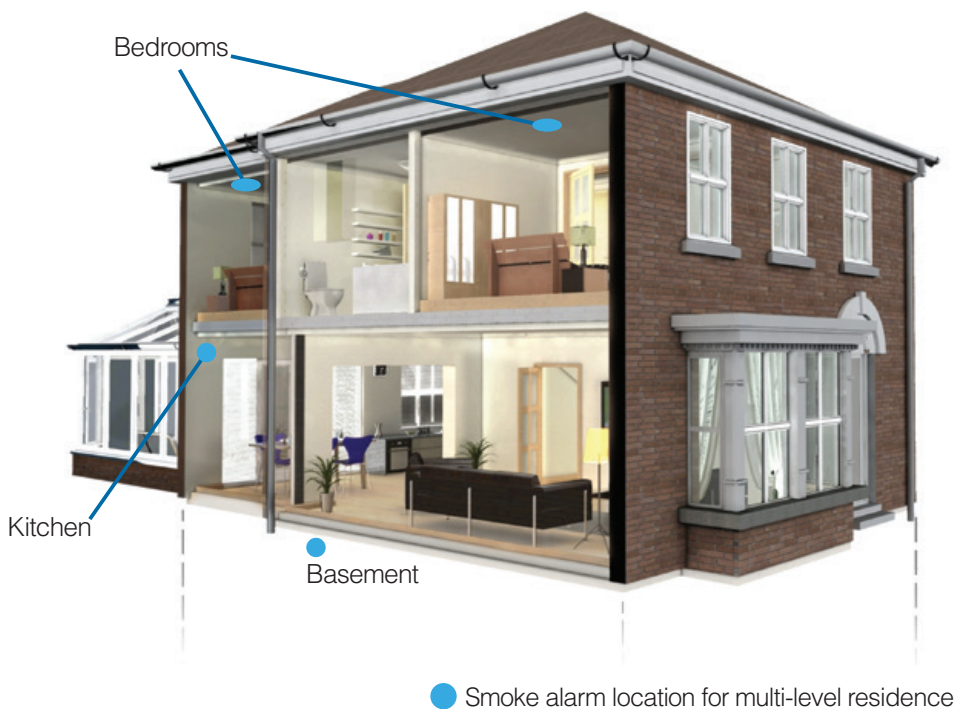


# Smoke Detector Placement



## Where to Install

- On every level of the home, including basements
- In every bedroom
- Outside each separate dwelling unit sleeping area, within 21 feet of any door to a sleeping room
- If wall mounted, not farther than 12 inches from the adjoining ceiling surface
- Do not install within 10 feet of a fixed cooking appliance. Use a photoelectric or ionization (with a silencing button) between 10 feet and 20 feet of a fixed cooking appliance
- Where required by other governing laws, codes, or standards



Note: Refer to NFPA 72 and consult your AHJ for proper smoke detector placement and spacing based on the intended application.

## Additional Resources

### Document Center

To access the full document library for i<sup>3</sup> and other products, visit the Document Center on [systemsensor.com](http://systemsensor.com).

You will find brochures, data sheets, product manuals, engineering specs, FAQs, CAD drawings, application guides, case studies, and more.

### Training Center

To access training, seminars, and webinars for i<sup>3</sup> and other products visit:

[systemsensor.com/training](http://systemsensor.com/training)

[systemsensor.com/seminars](http://systemsensor.com/seminars)

[systemsensor.com/webinars](http://systemsensor.com/webinars)

### Video Library

To access product training and other videos, visit [systemsensor.com/videos](http://systemsensor.com/videos)



# i<sup>3</sup> Series Smoke Detectors



## Features

System Sensor i<sup>3</sup> series smoke detectors represent significant advancement in conventional smoke detection. The i<sup>3</sup> family is founded on three principles: installation ease, intelligence, and instant inspection.

- Plug-in detector line, mounting base included
- Large wire entry port
- In-line terminals with SEMS screws
- Mounts to octagonal and single-gang back boxes, 4-square back boxes, or direct to wall or ceiling
- Stop-Drop 'N Lock attachment to base
- Removable detector cover and chamber
- Built-in remote maintenance signaling
- Drift compensation and smoothing algorithms
- Simplified sensitivity measurement
- Wide-angle, dual-color LED indication
- Loop testing via EZ Walk feature
- Built-in test switch

## i<sup>3</sup> Series Detectors

|          |                                                                             |
|----------|-----------------------------------------------------------------------------|
| 2W-B     | 2-wire Standard i3 Detector                                                 |
| 2WT-B    | 2-wire Standard i3 Detector with Fixed 135° Thermal Sensor                  |
| 2WTA-B   | 2-wire i3 Detector with Fixed 135° Thermal Sensor and Sounder               |
| 2WTR-B   | 2-wire i3 Detector with Fixed 135° Thermal Sensor and Form C Relay          |
| 4W-B     | 4-wire Standard i3 Detector                                                 |
| 4WT-B    | 4-wire Standard i3 Detector with Fixed 135° Thermal Sensor                  |
| 4WTA-B   | 4-wire i3 Detector with Fixed 135° Thermal Sensor and Sounder               |
| 4WTR-B   | 4-wire i3 Detector with Fixed 135° Thermal Sensor and Form C Relay          |
| 4WTAR-B  | 4-wire i3 Detector with Fixed 135° Thermal Sensor, Sounder and Form C Relay |
| 4WITAR-B | 4-wire i3 Detector with Isolated Thermal Sensor, Sounder and Form C Relay   |

## i<sup>3</sup> Series Accessories

### i<sup>3</sup> Series Accessories

|          |                                                       |
|----------|-------------------------------------------------------|
| SENS-RDR | i <sup>3</sup> Sensitivity Reader                     |
| MOD2W    | i <sup>3</sup> 2-Wire Loop Test/Maintenance Module    |
| RRS-MOD  | i <sup>3</sup> Reversing Relay/Synchronization Module |
| RT       | i <sup>3</sup> Removal Tool                           |
| A77-AB2  | i <sup>3</sup> Retrofit Adapter Ring                  |



SENS-RDR  
i<sup>3</sup> Sensitivity Reader



MOD2W  
i<sup>3</sup> 2-Wire Loop Test/Maintenance Module  
(Pictured with and without cover)



SPOT



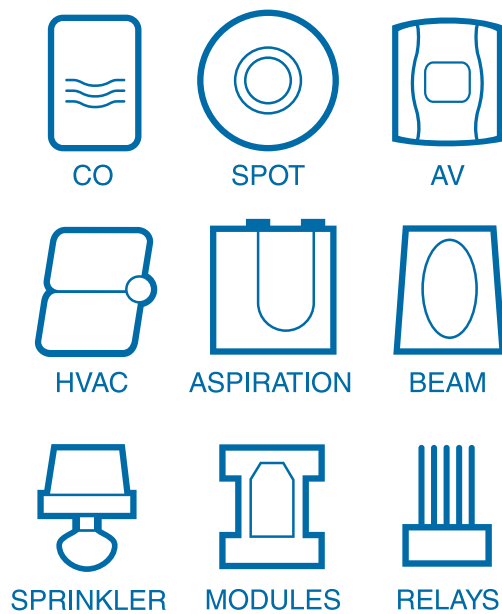
MODULES

i<sup>3</sup> Series Smoke Detectors are compatible with **i<sup>4</sup> Modules**

The i<sup>4</sup> Interface Module is compatible with System Sensor i<sup>3</sup> Series Smoke Detectors with thermal sensor and built-in sounders. This allows for easy retrofitting a combination CO/Smoke solution into existing i<sup>3</sup> installations and delivers greater flexibility for new installations.

### i<sup>4</sup> Series Interface Modules

|          |                                                                      |
|----------|----------------------------------------------------------------------|
| COSMOD2W | 2-wire interface and reversing relay module (Compatible with 2WTA-B) |
| COSMOD4W | 4-wire interface and reversing relay module (Compatible with 4WTA-B) |



Founded in 1984, System Sensor is a global manufacturer of fire and life safety devices, specializing in smoke detection, carbon monoxide detection, and notification technology. System Sensor develops products for real-world applications worldwide. With sales, service, and manufacturing facilities throughout the Americas, Europe, and Asia, System Sensor places a premium on research and development to provide the most reliable, innovative, and comprehensive line of products in the industry.

