FIRE-LITE ALARMS

#### GENERAL

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

The I<sup>3</sup> series redefines installation ease with its plug-in design. This allows an installer to pre-wire the bases included with the heads. The large wire entry port and inline terminals provide ample room for neatly routing the wiring inside the base. The base accommodates a variety of back box mounting methods as well as direct mounting with drywall anchors. To complete the installation, I<sup>3</sup> heads plug-in to the base with a simple action.

I<sup>3</sup> detectors offer a number of intelligent features to simplify testing and maintenance. Drift compensation and smoothing algorithms are standard with the I<sup>3</sup> line, to minimize nuisance alarms. When connected to the 2W-MOD loop test/maintenance module, or an I<sup>3</sup> ready panel (MS-2 & MS-4) equipped with the I<sup>3</sup> protocol, 2-wire I<sup>3</sup> detectors are capable of generating a remote maintenance signal when they are in need of cleaning. This signal is indicated via an LED located at the module and/or the panel. To read the sensitivity of I<sup>3</sup> detectors, the SENS-RDR is a wireless device that displays the sensitivity in terms of percent per foot obscuration.

The I<sup>3</sup> series provides wide angle red and green LED indicators for instant inspection of the detector condition, indicating: normal standby, out-of-sensitivity, alarm, or freeze trouble conditions. When connected to the 2W-MOD loop test/maintenance module or an I<sup>3</sup> ready panel (MS-2 & MS-4) with the I<sup>3</sup> protocol, the EZ Walk loop test feature is available on 2-wire I<sup>3</sup> detectors. This feature verifies the initiating loop wiring by providing LED status indication at each detector.

### **FEATURES**

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

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Detector

Intelligent Conventional Smoke Detector Series

#### **SPECIFICATIONS**

- Operating voltage: 12/24 VDC (peak).
- Standby current:
   2-wire: 50 µA maximum average
   4-wire: 50 µA maximum average
- Maximum Alarm Current 2-wire: 130 mA limited by control panel
- 4-wire: 20 mA @12V, 23mA @24V
- Alarm Contact Ratings
  2-wire: n/a
  4-wire: 0.5 A @ 30V AC/DC
- Operating Temperature Range: 2W-B and 4W-B: 32°F - 120°F (0°C - 49°C).
   2WT-B and 4WT-B: 32°F - 100°F (0°C - 37.8°C).
- Operating Humidity Range: 0% to 95% RH noncondensing.
- Thermal Sensor: 135°F (57.2°C) fixed.
- Freeze Trouble: 2WT-B and 4WT-B only: 41°F (5°C).
- Sensitivity: 2.5% /ft. nominal.
- Input Terminals: 14-22 AWG.
- Dimensions (including base) 5.3 inches (127 mm) diameter, 2.0 inches (51 mm) height.
- Weight: 6.3 Oz. (178 grams).
- Mounting: 3.5-inch octagonal back box 4-inch octagonal back box Single gang back box 4-inch square back box with plaster ring Direct mount to ceiling





## **LED MODES**

LED MODE	GREEN LED	RED LED	POWERUP SEQUENCE FOR L	ED INDICATION
Power up	Blink every10 seconds	Blink every 10 seconds	Condition	Duration
Normal (standby)	Blink every 5 seconds	off	Initial LED status indication	80 seconds
Out of sensitivity	off	Blink every 5 seconds		
Freeze trouble	off	Blink every 10 seconds		
Alarm	off	Solid		

# **ORDERING INFORMATION**

Model Model (Canadian)		Thermal	Wiring	Alarm Current	
2W-B	C2W-BA	No	2-wire	130 mA max. limited by control panel	
2WT-B	C2WT-BA	Yes	2-wire	130 mA max. limited by control panel	
4W-B	C4W-BA	No	4-wire	20 mA @ 12V, 23mA @24V	
4WT-B	C4WT-BA	Yes	4-wire	20 mA @ 12V, 23mA @24V	
2WTA-B	C2WTA-BA	Yes	2-wire	130 mA max. Imited by control panel	
2WTR-B	C2WTR-BA	Yes	2-wire	130 mA max. limited by control panel	
4WTA-B	C4WTA-BA	Yes	4-wire	35 mA	
4WTR-B	C4WTR-BA	Yes	4-wire	35 mA	
4WTAR-B	C4WTAR-BA	Yes	4-wire	50 mA	
4WITAR-B	C4WITAR-BA	Yes	4-wire	50 mA	
Model	Description				
2W-MOD	2-wire loop test / maintenance module				
SENS-RDR	Sensitivity reader				
RT	Removal / replacement tool				
A77-AB2	Retrofit adapter bracket				
CRRS-MODA	Reversing relay/synchronization module				
C2W-MOD2A	2-wire loop test/maintenance module				
CSENS-RDRA	Sensitivity reader				

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