



by Honeywell

i³ Series Detectors

Description

The System Sensor, i³ Series smoke detectors represent a significant advancement in conventional detection. The i³ family is founded on three principles: installation ease, intelligence, and instant inspection.

The i³ Series redefines installation ease with its plug-in design. This design allows an installer to pre-wire the bases included with the heads. The large wire entry port and in-line 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, i³ heads plug-in to the base.

i³ detectors offer a number of intelligent features to simplify testing and maintenance. Drift compensation and smoothing algorithms are standard with the i³ line, to minimize nuisance alarms. When the i³ is connected to the 2W-MOD loop test/maintenance module or an i³ ready panel (MS-2 and MS-4) equipped with the i³ protocol, 2-wire i³ detectors are capable of generating a remote maintenance signal indicating 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 i³ detectors, the SENS-RDR is a wireless device that displays the sensitivity in terms of percent per foot obscuration.

The i³ 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 the i³ is connected to the 2W-MOD loop test/maintenance module or an i³ ready panel (MS-2 and MS-4) with the i³ protocol, the EZ Walk loop test feature is available on 2-wire i³ detectors. This feature verifies the initiating loop wiring by providing LED status indication at each detector.

Intelligent Conventional Smoke Detector Series



i³

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, 4" (10.16 cm) square backboxes, or direct to ceiling
- Removable detector cover and chamber to simplify cleaning
- Wide angle, dual color LED indication
- Loop testing via EZ Walk feature
- Built-in test switch

An ISO 9000-2000 Company



GAMEWELL-FCI

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Specifications

Operating Voltage:	12/24 VDC (peak)
Standby Current:	2-wire: 50 mA maximum average 4-wire: 50 mA maximum average
Maximum Alarm Current:	2-wire: 130 mA limited by control panel 4-wire: 20 mA @ 12 V, 23 mA @ 24V
Alarm Contact Ratings:	2-wire: n/a 4-wire: 0.5 A @ 30 V 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 non-condensing
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 (8.8 cm) octagonal backbox 4-inch (10.16 cm) octagonal backbox Single-gang back box 4-inch (10.16 cm) square backbox with plaster ring Direct mount to ceiling

Ordering Information

Model	Thermal	Wiring	Alarm	Current
2W-B	No	2-wire	130 mA max. limited by control panel	
2WT-B	Yes	2-wire	130 mA max. limited by control panel	
4W-B	No	4-wire	20 mA @ 12V, 23mA @24V	
4WT-B	Yes	4-wire	20 mA @ 12V, 23mA @24V	
2WTA-B	Yes	2-wire	130 mA max. limited by control panel	
2WTR-B	Yes	2-wire	130 mA max. limited by control panel	
4WTA-B	Yes	4-wire	35 mA	
4WTR-B	Yes	4-wire	35 mA	
4WTAR-B	Yes	4-wire	50 mA	
4WITAR-B	Yes	4-wire	50 mA	

Model	Description
2W-MOD	2-wire loop test/maintenance module
SENS-RDR	
RT	Removal / replacement tool
A77-AB2	Retrofit adapter bracket
CRRS-MODA	Reversing relay/synchronization module
CSENS-RDRA	Sensitivity reader

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