

GENERAL

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 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 dry-wall anchors. To complete the installation, I³ heads plug-in to the base with a simple action.

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 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 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 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.

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" square 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.



California
State Fire
Marshal
7272-1209:210

MEA



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 @ 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 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 backbox.
 - 4-inch octagonal backbox.
 - Single-gang back box.
 - 4-inch square backbox with plaster ring.
 - Direct mount to ceiling.

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Specifications and wiring information are provided for information only and are believed to be accurate. Gamewell assumes no responsibility for their use. Data and design are subject to change without notice. Installation and wiring instructions shipped with the product shall always be used for actual installation.
For more information, contact Gamewell, a Honeywell company.

LED MODES

| LED MODE | GREEN LED | RED LED | POWERUP SEQUENCE FOR LED INDICATION | |
|--------------------|------------------------|------------------------|-------------------------------------|------------|
| Power up | Blink every 10 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 | 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 | Sensitivity reader |
| RT | Removal / replacement tool |
| A77-AB2Retrofit | adapter bracket |
| CRRS-MODA | Reversing relay/synchronization module |
| CSENS-RDRA | Sensitivity reader |