

# SS-I

## Intelligent Addressable Plug-In Ionization Smoke Detector



SS-I with SS-B6 base

### Description

Gamewell's intelligent SmartScan™ plug-in smoke detector with integral communication provides features that surpass conventional detectors. Detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with decade address switches, providing exact de-

detector locations for selective maintenance when chamber contamination reaches an unacceptable level. The **SS-I ionization detector** incorporates a unique single-source, dual-chamber design to respond quickly and dependably to a broad range of fires. The SS-I detector is compatible with Gamewell's 602, 610, 632, 654 and 658 FACPS with a SmartScan™ SLC.

### Installation

The SS-I plug-in detector uses a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug in and remove detectors without using a ladder.

Mount base on an electrical backbox which is at least 1.5" (3.81 cm) deep. Suitable mounting back boxes include:

- 4.0" (10.16 cm) square box.
- 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box.
- Single-gang box (**except for relay or isolator base**).
- **With B501BH or B501BHT base**, use a 4.0" (10.16 cm) square box.
- **With B224RB or B224BI base**, use a 3.5" (8.89 cm) octagonal box, or a 4.0" (10.16 cm) octagonal or square box.

**NOTES:** 1) Because of the inherent supervision provided by the SLC loop, **end-of-line resistors** are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring. 2) When using **relay or sounder bases**, consult data sheet CS-2464 (SS-LI) for device limitations between isolator modules and isolator bases.

### Features

- Sleek, low-profile design.
- Addressable-analog communication.
- Stable communication technique with noise immunity.
- Low standby current.
- Two-wire SLC connection.
- Rotary, decimal addressing (1 – 99).
- Optional remote, single-gang LED accessory (RA400Z).
- Dual LED design provides 360° viewing angle.
- Visible bicolor LEDs blink green every time the detector is addressed, and illuminate steady red on alarm.
- Remote test feature from the panel.
- Built-in functional test switch activated by external magnet.
- Built-in tamper-resistant feature.
- Sealed against back pressure.
- Constructed of off-white Bayblend®, designed to commercial standards, and offers an attractive appearance.
- 94-5V plastic flammability rating.
- SEMS screws for wiring of the separate base.
- Optional relay, isolator, or sounder bases.
- Backward-compatible.

### Listings

Listings and approvals below apply to the SS-I Intelligent Plug-In Ionization Smoke Detector. In some cases, the detector may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file S1195.
- CSFM approved: file 7271-1288:168.

## Product Line Information

**SS-I:** Low-profile intelligent ionization smoke detector. Must be mounted to one of the bases listed below.

### Bases:

**SS-B6:** Standard U.S. low-profile base, UL Listing.

**B501BP:** Standard European flangeless base, pkg. of 10.

**B501BH:** Sounder base, includes B501 base above.

**B501BHT:** Same as B501BH, but includes temporal sounder.

**B224RB:** Intelligent relay base.

### Accessories:

**RA400Z:** Remote LED annunciator. 3 – 32 VDC. Fits U.S. single-gang electrical box. *Supported by SS-B6 and B501 bases only.*

**SMK400:** Surface mounting kit provides for entry of surface wiring conduit. *For use with B501 base only.*

**RMK400:** Recessed mounting kit. *For use with B501 base only.*

**SMB600:** Surface mounting kit for use with SS-B6.

**BCK-200B:** Black detector covers, box of 10. Use with SS-I.

**M02-04-01:** Test magnet.

**M02-09-00:** Test magnet with telescope stick.

**XR2B:** Detector removal tool. Allows installation and/or removal of SS-I detector heads from base in high ceiling installations.

**T55-127-000:** Detector removal tool without pole.

**XP-4:** Extension pole for XR2B. Comes in three 5-ft. sections.

### Detector Guards:

**NOTE:** *The following guards are not UL listed with the SS-I detectors. Consult AHJ.*

**STI 9601:** Low-profile, flush-mount smoke detector guard, wire.

**STI 9602:** Low-profile, surface-mount, smoke detector guard, wire.

**STI 9609:** High-profile, flush-mount, smoke detector guard, wire.

**STI 9605:** High-profile, surface-mount, smoke detector guard, wire.

**STI 9604:** Flush-mount heat detector guard, wire.

**STI 9610:** Surface-mount heat detector guard, wire.

**STI-8200-SS:** Flush-mount stainless steel smoke detector guard

**STI-8230-SS:** Surface-mount stainless steel smoke detector guard

## Specifications

### Size

2.1" (5.3 cm) high x 4.1" (10.4 cm) diameter installed in B501 base, 6.1" (15.5 cm) diameter installed in SS-B6 base.

### Shipping weight

5.4 oz. (154 g).

### Operating temperature

0°C to 49°C (32°F to 120°F).

### UL-Listed velocity range:

**ION:** 0 – 1200 ft./min. (365.76 m/min.).

### Relative humidity

10% – 93% noncondensing.

### DETECTOR SPACING:

Gamewell recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceilings, space detectors 30 feet (9.144 m). For specific information regarding detector spacing, placement, and special applications, refer to NFPA 72. *System Smoke Detector Application Guide*, document A05-1003, is available at [systemsensor.com](http://systemsensor.com).

### ELECTRICAL SPECIFICATIONS:

#### Voltage range

15 - 32 volts DC peak.

#### Standby current (max. avg.)

200  $\mu$ A @ 24 VDC (without communication); 300  $\mu$ A @ 24 VDC (one communication every 5 seconds with LED enabled).

#### LED current (max.)

6.5 mA @ 24 VDC ("ON").

### BASES AVAILABLE:

**SS-B6:** 6.1" (15.5 cm) diameter.

**B501:** 4.1" (10.4 cm) diameter.

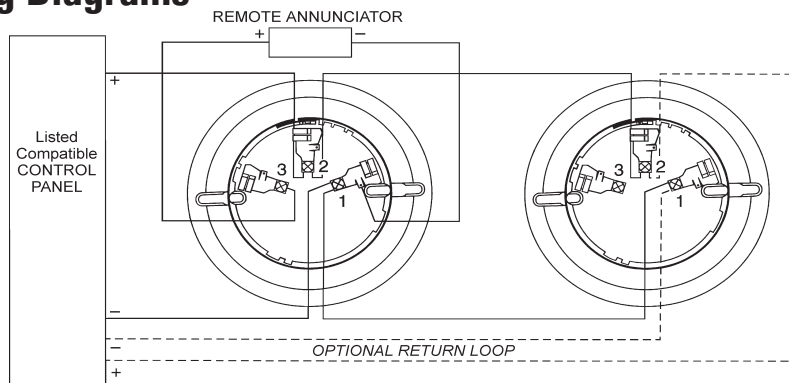
**B501BH or B501BHT:** Sounder base assembly. Includes B501 base.

**B224RB Relay Base:** **Screw terminals:** up to 14 AWG (2.0 mm<sup>2</sup>). **Relay type:** Form-C. **Rating:** 2.0 A @ 30 VDC resistive; 0.3 A @ 110 VDC inductive; 1.0 A @ 30 VDC inductive. **Dimensions:** 6.2" (15.748 cm) x 1.2" (3.048 cm).

**B224BI Isolator Base:** **Dimensions:** 6.2" (15.748 cm) x 1.2" (3.048 cm).

**Maximum:** 25 devices between isolator bases.

## Wiring Diagrams



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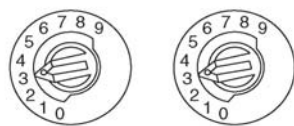
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Address dial on back of detector.

Specifications and wiring information are provided for information only and are believed to be accurate. Gamewell-FCI 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-FCI.