

# SS-P and SS-M

## Intelligent Addressable Plug-In Photoelectric Smoke Detectors with SmartScan®



SS-P with SS-B6 base



SS-M with SS-B6 base

### Description

Gamewell's SS-P and SS-M SmartScan® intelligent, addressable plug-in photoelectric smoke detectors with integral communication provide 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 detector locations for selective maintenance when chamber contamination reaches an unacceptable level. The **SS-P** photoelectric detector's unique optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources. Dual electronic thermistors

add 135°F (57°C) fixed-temperature thermal sensing on the **SS-M**. SS-P and SS-M detectors are compatible with any 600 Series panels and a SmartScan® SLC.

### Installation

SS-P and SS-M plug-in detectors use 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 the SS-LI data sheet for device limitations between isolator modules and isolator bases.**

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### 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.

### Listings

Listings and approvals below apply to the SS-P and SS-M Intelligent Plug-In Photoelectric Smoke Detectors. In some cases, certain modules 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 7272-1288:165.
- MEA approved: file 275-02-E Vol. IV.

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## Product Line Information

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

**SS-M:** Same as SS-P but includes a built-in 135°F (57°C) fixed-temperature thermal device.

### Bases:

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

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

**B501:** Standard European flangeless base, UL Listing.

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

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

**B224RB:** Intelligent relay base.

**B224BI:** Intelligent isolator base. Isolates SLC from loop shorts.

### 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.

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

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

**XR2B:** Detector removal tool. Allows installation and/or removal of SS-P and SS-M 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:** Detector guards are not UL listed. Consult with 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

5.2 oz. (147 g).

### Operating temperature

**SS-P:** 0°C to 49°C (32°F to 120°F)

**SS-M:** 0°C to 38°C (32°F to 100°F). Low-temperature signal for SS-M at 45°F +/- 10°F (7.22°C +/- 5.54°C).

### UL-Listed velocity range

0 – 4000 ft./min. (1219.2 m/min.), suitable for installation in ducts.

### Nominal sensitivity

0.5 – 3.71 %/ft.

### Relative humidity

10% – 93% noncondensing.

### Thermal ratings

Fixed-temperature setpoint 135°F (57°C).

### DETECTOR SPACING and APPLICATIONS:

Gamewell recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceilings, space detectors 30 feet (9.144 m) for ceiling heights 10 feet (3.048 m) and higher. 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). SS-P and SS-M are Listed for use in ducts, but they are **NOT** Listed for use inside duct smoke detector housings. See *Duct Application Smoke Detectors Guide*, document A05-1004, available at [systemsensor.com](http://systemsensor.com), for details on pendant-mount applications.

### ELECTRICAL SPECIFICATIONS:

#### Voltage range

15 – 32 volts DC peak.

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

250  $\mu$ A @ 24 VDC (with no communication enabled);  
360  $\mu$ 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.

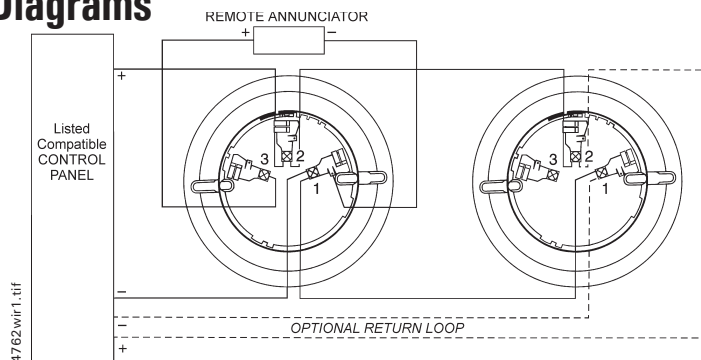
**B501:** 4.1" (10.4 cm) diameter.

**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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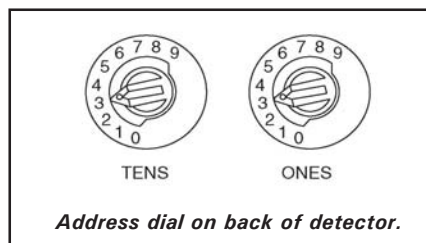
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