

# Detection Bases

## Audible Base for 'HFP'-series and Desigo™ Intelligent Detectors Model SBGA-34

### ARCHITECT AND ENGINEER SPECIFICATIONS

- Works with Model 'HFP'-series detectors and Desigo Fire Safety Intelligent detectors
- Audible tones:
  - American National Standards Institute (ANSI) Temporal 3 pattern
  - ANSI Temporal 4 pattern
  - Temporal 4 pattern (Carbon Monoxide [CO] code-compliant tone)
    - ✓ produces a continuous 2400 Hz tone
    - ✓ can also follow the Siemens fire alarm control panel (FACP) notification appliance circuit (NAC) output
- Provides audible signals for FIRE (Temporal 3) and CO (Temporal 4) without the need for two (2) separate detectors or audible sounder devices
- Pre-wire mounting plates fit various junction-box sizes
- System compatible with:
  - Desigo™ Fire Safety's Models FC2025 and FC2050 FACPs
  - FireFinder® XLS FACPs
  - FireSeeker® FS-250 FACPs
  - Siemens PAD-series NAC Extenders



SBGA-34  
(Front View)



SBGA-34  
(Back View)

- Replaces single / multiple-station smoke alarms in residential occupancies (when used with listed Siemens fire systems)
- Multiple, event-driven tone outputs
- Generates up to 85dba signals at 10 feet (3.1 m)
- **UL268, 464 Listed, ULC-S525 Listed; CSFM Listed**

### Product Overview

The Model SBGA-34 Audible Base from Siemens — Fire Safety is an intelligent detector base comprising of a standard Siemens Series '11' base, which combines supportive circuitry for Desigo Fire Safety and Model 'HFP'-series detectors. Each Model SBGA-34 base also houses an audible sounder device.

Model SBGA-34 is used with the polarity-insensitive Siemens Models HFP-11, HFPO-11 and HFPT-11 intelligent detectors, and functions with the Desigo Fire Safety Models FDO421, FDT421, FDOT421, FDOOT441, and FDOOTC441 intelligent detectors.

**Note:** Models SFP-11, SFPO-11 and SFPT-11 detectors are approved for use exclusively in **Canada**.

Typical applications of each Model SBGA-34 detector would include all vicinities that normally would require localized audible annunciation, which would include: hotels, motels, apartments, condominiums, dormitories, guest suites, day-care, residential boards, and care facilities.

Model SBGA-34 can be used with the following Siemens fire systems: FireFinder XLS, Desigo Fire Safety, FireSeeker FS-250 and PAD-series NAC Extenders.

### Specifications

Model SBGA-34 consists of a standard Siemens — Fire Safety Series '11' base — combined with supportive circuitry for the Desigo Fire Safety and Model 'HFP'-series detectors. Each Model SBGA-34 base also houses an audible sounder device

All field wiring terminates at two (2) of the (4) four-position terminal blocks located on the back of Model SBGA-34.

Each Model SBGA-34 contains a pre-wired, audible piezo-electric device that produces a signal up to 85dBA at 10 ft. (3.1m) for localized annunciation.

Several different configurations can provide audible signal circuit power to Model SBGA-34.

**Note:** See the Wiring Diagram [P/N: A6V10383428] in the Installation and Operation Manual for Model SBGA-34 included in the shipment of each unit.

When a fire system is in *Supervised* mode, the polarity of the power to all Model SBGA-34 detectors is in reversed normal state, resulting in zero current flow to each base.

Model SBGA-34 Audible Base **6157C**

## Specifications — (continued)

When an *Alarm* command is reported to the FACP, power to all Model SBGA-34 detectors reverses polarity, and there is no audible sound. The system may then selectively command Model SBGA-34 — under automatic control — to become audible.

All Model SBGA-34 bases are capable of sounding simultaneously, individually or in any combination — depending upon the system program and FACP.

The installation of a jumper wire between Terminals 3 and 4 of Model SBGA-34 changes the tone output from 'Steady' to 'Temporal.'

Each Model SBGA-34 audible base is UL268, UL464 Listed as well as ULC-S525 Listed for **Canada**.

### Compatible Detectors

Each Model SBGA-34 audible base is compatible with the following Siemens Intelligent detectors:

Model Number	Installation Instructions Part Number
HFP-11	315-033290
HFPT-11	
HFPO-11	315-034800
FDOT421	A6V10323934
FDOOT441	A6V10324655
FDOOTC441	A6V10324657
FDO421	A6V10323926
FDT421	A6V10323930
SFP-11	315-033290C
SFPT-11	
SFPO-11	315-033290C

**Note:** Models SFP-11, SFPO-11 and SFPT-11 detectors are approved for use exclusively in **Canada**.

### Application Data

Model SBGA-34 is compatible with Siemens Model 'HFP'-series and Desigo Fire Safety intelligent detectors.

The smoke detectors used with Model SBGA-34 are subject to the maximum 30 ft. center spacing (900 sq. ft.) as referred to in the National Fire Protection Association Standard 72. This spacing, however, is based on ideal conditions — namely, smooth ceiling; no air movement, and no physical obstructions between the fire source and the detector.

The aforementioned center-spacing format should be referred to as a guide for detector-installation layout. Do not mount detectors in areas close to ventilating or air-conditioning outlets. Exposed joists or beamed ceilings may also effect safe spacing limitations for detectors.

It is mandatory for NFPA 72 guidelines and good engineering judgment be applied to detector placements and spacing.

#### Application Notes:

Model SBGA-34 is a smoke-detector supplementary device, combining detector-base and audible-device functions. Model SBGA-34 meets the audibility requirements for smoke alarms, as specified in UL217: Single and Multiple-Station Smoke Alarms.

When used in conjunction with listed, compatible equipment, Model SBGA-34 may be used (in lieu of single / multiple-station smoke alarms) to achieve enhanced system-level functionality.

When used to follow the NAC-tone pattern, Model SBGA-34 must be set to 'Steady' tone, and the system to which it is connected must be configured accordingly for the desired application.

This allows Model SBGA-34 to transition from one tone to another audible pattern (e.g. — from 'Temporal 4' to 'Temporal 3'). Proper criteria must be met, and synchronization with the NAC zone for which it is connected can occur.

### Technical Data

#### Electrical:

<b>Voltage:</b>	17 — 31 VDC (for Special Applications)
<b>Admissible Cross-Section Cable Design:</b>	14 — 22 AWG (American Wire Gauge)
<b>Supervisory Current:</b>	<i>Supervisory Loop:</i> 0.6mA External Power Supply: 0mA
<b>Alarm Current:</b>	<i>Alarm Loop:</i> 2.8mA External Power Supply: 56mA

#### — Audibility Measurements at 10 ft. (3.1m) —

<b>UL464:</b>	79dBA
<b>UL268:</b>	85dBA
<b>ULC-S525:</b>	85dBA

### Details for Ordering

Model Number	Part Number	Description
SBGA-34	S54370-F13-A1	Audible Detector Base for Siemens Fire Safety Intelligent Detectors

**Notice:** This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.