Data Sheet

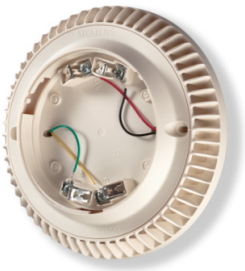
Detection Bases

Intelligent Audible (Sounder) Base [with Loop-Power Option]
Model ABHW-4B

ARCHITECT AND ENGINEER SPECIFICATIONS

- **Innovative two-wire, loop-power option**
- **Highly flexible programming and configuration options with independently controlled outputs by device**
- **Provides six (6) field-configurable audible -tone patterns:**
  - Steady
  - American National Standards Institute (ANSI) Temporal 3
  - ANSI Temporal 4 Carbon Monoxide [CO]
  - Temporal 4 Low Power
  - March time 120 (and Canadian March time 30)
- **Power options include:**
  - NACs
  - Loop (two-wire)
  - Siemens PAD-series NAC Extenders
  - Model ZIC-4A (for FireFinder® XLS FACPs)
  - Any other ®UL Listed, 24VDC regulated power supply
- **Compatible with Cerberus PRO intelligent detectors and Siemens 'H'-series and 'S'-series devices**

Model ABHW-4B
(Back View)



Model ABHW-4B
(Front View)

- **Synchronization by loop**
- **Standard 3,000 Hz Buzzer tone**
- **®UL268, ®UL464 & ®UL2075 Listed; ULC-S525, ULC-S529 Listed; FM (#3150, #3230 & #3010) and CSFM (#7300-0067:0271) Approved**

Product Overview

The Model ABHW-4B Audible (Sounder) Base from Siemens Industry Inc. is an intelligent, supervised and addressable detector base designed for use in standard applications requiring an audible notification device. Each Model ABHW-4B base generates a 3,000 Hz audio signal that complies with NFPA 72 Standard.

Model ABHW-4B is ®UL / ULC Listed, and is the first-ever agencies-listed audible base to have the option of being powered directly from a signal line circuit (SLC) in a two-wire configuration – when used with a Cerberus PRO detector. The loop-power feature and advanced configuration options contained with each audible (sounder) base are not available when a Siemens Model 'H'-series detector is used. Though, Model ABHW-4B will function similar to that of a Model ADBH-11 audible base when a Model 'H' or 'S'-series detector is used.

The innovative loop-power option provides easier two-wire connection for new or expansion applications where additional wiring or power options are limited. Model ABHW-4B can also be powered in a traditional four-wire configuration, utilizing a notification-appliance circuit (NAC); a Siemens PAD-series NAC extender; Model ZIC-4A, or any ®UL Listed, 24VDC regulated power supply.

Note: See the Model ABHW-4B Installation and Operation Manual (**IOM: A6V10405587**) for further information.

Model ABHW-4B provides six (6) field-configurable tone patterns: two (2) volume levels are used with compatible Siemens detectors and FACPs. Steady; Temporal 3 pattern; Temporal 4 pattern; Temporal 4 with low-power; March Time 120, and Canadian March Time 30 are supported by each intelligent audible (sounder) base.

Intelligent audible (sounder) bases wired in the same device-loop circuit are fully synchronized with the Cerberus PRO Advanced-Line and Standard-Line detectors, and support the Siemens Remote Lamps, Models RL-HC and RL-HW.

When used in conjunction with agency-listed / compatible Siemens fire components, Model ABHW-4B may be used in lieu of a single / multiple station smoke alarms to achieve enhanced, system-level functionality.

Each intelligent, addressable audible (sounder) base consists of a standard Siemens — Fire Safety Series '11' detector-base layout — combined with supportive circuitry for Cerberus PRO and Model 'HFP' / 'SFP'-series of addressable detectors.

Cerberus® PRO
Fire Safety Products

9909
Intelligent Audible (Sounder) Base

Specifications

Model ABHW-4B houses a pre-wired, audible (sounder) device capable of generating a 3,000 Hz tone that provides a signal up to 85dBA at 10 feet (3.1m) for localized annunciation.

Several different power options are available to provide power to the Model ABHW-4B audible base. Additionally, all Model ABHW-4B bases are capable of sounding simultaneously, individually or in any combination — depending upon the system configuration used on a Siemens FACP.

Note: For power and wiring options, see **IOM: A6V10405587**.

Each Model ABHW-4B is a ®UL / ULC Listed supplementary smoke-detection device that meets or exceeds the 85dB at 10 ft. (3.1m) audibility requirement specified in ®UL268, ULC-S525, ULC-S529 — as well as ®UL464 / ®UL2075, except for 520Hz, low-frequency-tone requirements.

Compatibility with SIEMENS FACPs

Model ABHW-4B functions with the following:

FACP	System Type
FireFinder® XLS	Person Machine Interface (PMI) *v*10.02 (or later)
	Zeus Custom-Configuration Software *v*10.02 (or later)
	Device Loop Card (Model DLC) *v*6.01 (or later)
Model FC901	Cerberus PRO 50-point FACP *v*01.04.20 (24), Software-tool *v*01.02.16 (53)
Models FC922 | FC924	Software-tool v6.0.0R1 (or later)

Application Data

The smoke detectors used with Model ABHW-4B 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.

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 be applied to detector placements and spacing.

Technical Data

Physical Properties:

Operating Temperature:	32° — 120°F (0° — 49°C)
Operating Humidity:	10 — 95%, non-condensing
Sound Output:	High: ≥ 85 dB
	Low: ≥ 75 dB
Mounting Box:	(10.2 cm.) 4-inch-square gang box

Note: A 4" (10.2 cm.) octagon box is *not* compatible with Model ABHW-4B.

Technical Data — (continued)

Electrical Ratings

Operating Voltage:	Loop power:	16 — 33 VDC
	External power:	16 — 33 VDC
***Supervisory* Current** (max)	From SLC loop:	250 µA
	From external source:	20 µA
***Alarm* Current** (RMS max)	**Loop Power:** High dBA:	7.5 mA
	Loop Power: Low dBA:	4.5 mA
	External Power: High dBA:	8.0 mA
	External Power: Low dBA:	3.5 mA

Connections

Admissible Cross-Section Cable:	12 – 18 AWG (American Wire Gauge)
Design:	Two (2) back-end blocks of up to four (4) screw terminals on each side

Details for Ordering

Model	Part Number	Description
ABHW-4B	S54320-F13-A1	Audible (Sounder) Base [with Loop-Power Option]
ABHW-4BZ	S54320-F13-A2	Buzzer-Version Audible Base, [3KHz tone – COO USA]

Compatible Intelligent Detectors

Model	Part Number	Description
OH921	S54320-F4-A2	Optical Heat Detector
HI921	S54320-F5-A2	Heat Detector
OP921	S54320-F6-A2	Optical Detector
OOH941	S54320-F7-A2	Dual-Optical Heat Detector
OOHC941	S54320-F8-A2	Dual Optical Heat (w/ CO) Detector

Compatible Remote Lamps

Model	Part Number	Description
RL-HW	500-033310	Remote Alarm Lamp, Wall
RL-HC	500-033230	Remote Alarm Lamp, Ceiling

Compatible Model 'H' / 'S'-Series Detectors

Model	Part Number	Description
HFP-11	500-033290	'H'-Series Optical / Heat Detector
HFPT-11	500-033800	'H'-Series Heat Detector
HFPO-11	500-034800	'H'-Series Optical Detector
SFP-11	500-033290C	'S'-Series Optical / Heat Detector
SFPT-11	500-033380C	'S'-Series Heat Detector
SFPO-11	500-034800C	'S'-Series Optical Detector

Notes: Models SFP-11, SFPO-11 and SFPT-11 detectors are approved exclusively in Canadian installations. Model 'H'/ 'S'-series bases are limited in audible-base functionality.

Contact Technical Support at **1-800 248-7976** for further details.

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