

Specialized Detection Devices

Audible Bases

Models ADB-11, ADBH-11 and ADBX-11

Architect & Engineer Specifications

- ☐ Model ADB-11 is compatible with Series 11 and Series 121 detectors
- ☐ Model ADBX-11 is compatible with Model FP Series detectors
- ☐ Model ADBH-11 is compatible with Model HFP Series detectors
- ☐ Both models produce 85db audible signal
- ☐ Temporal or Steady
- ☐ Both models are for surface mounting
- ☐ UL 268 Listed
- ☐ FM, CSFM and NYCFD Approved

Product Overview

Models ADB-11 and ADBX-11 are audible-base detectors that contain a pre-wired, audible and piezo-electric device that produces an 85db signal for localized annunciation. Model ADB-11 is designed to be used with conventional Series 11 and 121 plug-in detectors, and Model ADBX-11 is designed for use with addressable, analog Model FP-11 and Model FPT-11 detectors.

Typical application includes all areas that normally would require localized, audible annunciation, such as: hotel, motel, apartment, condominium, and dormitory rooms. Model ADB-11 and Model ADBX-11 are UL listed.

Specifications

ADB-11

Model ADB-11 is powered by a conventional zone of the system control panel with operation of the piezo-electric device being controlled by the detector. During the supervision or non-*alarm* condition, ground circuit to Model ADB-11 is absent, and there is zero current flow.

Upon *alarm* to its detector, circuit ground is provided to Model ADB-11, via the base contact, and the audible device is activated, producing an 85db audible signal, which serves as the local alarm.

Model ADB-11 is turned off by the reset of the system control panel. The system control panel guarantees that only one (1) auxiliary or remote device will activate per zone. The addition of a jumper wire between terminals 7 and 8 on the audible base changes the tone from steady to temporal. Model ADB-11 operates with an input-zone power of 17 VDC – 31 VDC, and requires a 4" square, 2½"-deep electrical box.



Model ADB-11



Model ADBX-11



Specifications (cont.)

ADBH-11

There is a smoke-detector accessory, Model ADBH-11, that combines detector-base and audible-device functions. Typical applications for use of Model ADBH-11 include: dormitories, hotels, motels, apartments, etc. ADBH-11 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 ADBH-11 may be used — in lieu of single / multiple-station smoke alarms — to achieve enhanced system-level functionality.

ADBX-11

The Audible Base Model ADBX-11 consists of a standard Series 11 base, combined with supportive circuitry for the FP Series Detectors and an audible device. All field wiring terminates at two (2) of the (4) four-position terminal blocks located on the back of the unit. Model ADBX-11 can be used with the MXL family of control panels.

Several different configurations can provide audible signal-circuit power to Model ADBX-11 at terminals 1 through 4. During the supervision state (no alarms), the polarity of the power to all Model ADBX-11 devices is in reversed normal state, resulting in zero current flow to each base. When any *alarm* is reported to the system, the power to all Model ADBX-11 devices reverses polarity with no audible sound. Hence, the system may then selectively command Model ADBX-11 — under programmed control — to become audible.

All Model ADBX-11 bases are capable of sounding simultaneously, individually or in any combination — depending upon the system program and control panel.

Model ADBX-11 is UL 268 Listed, and achieves the audibility sound output of 85 decibels at 10 feet. The installation of a jumper wire between terminals 3 and 4 of Model ADBX-11 changes the tone output from steady to temporal.

Note: Model ADBX-11 is not to be used for primary building evacuation, only as a supplemental, audible signal device.

Applications

ADB-11 / ADBX-11

Model ADB-11 is fully compatible with Series 11 and 121 plug-in detectors. When a Model ADB-11 detector is used with a compatible detector, no remote relay or lamp device can be used with that same detector. Further, no more than 30 compatible detectors of any type or combination [other than thermals or manual stations] may be used on any one (1) conventional system detector circuit.

Model ADBX-11 is compatible only with the FP Series addressable detectors. No more than 60 detectors on MXL or loops may be used on any individual, addressable initiating circuit.

The smoke detectors used with Models ADB-11 and ADBX-11 are subject to the maximum 30 ft. center spacing (900 sq. ft.), as referred to in the National Fire Protection Association Standard 72. This NFPA-guideline spacing; however, is based on ideal conditions — namely: smooth ceiling, no air movement, and no physical obstructions between the fire source and the detector.

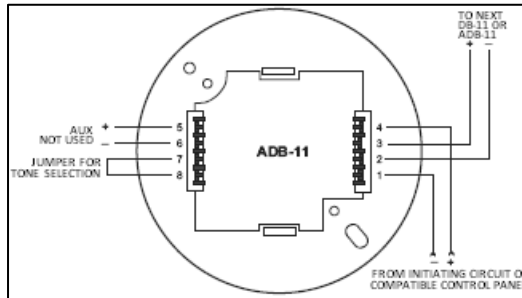
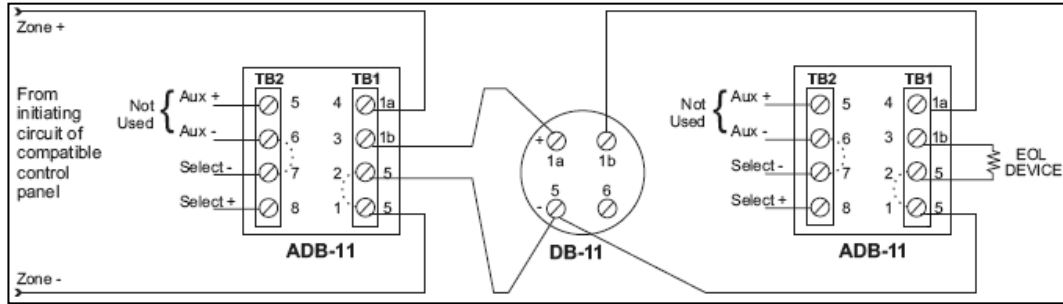
The aforementioned spacing requirement should be used as the guide for detector-installation layout.

Do not mount detectors in areas close to ventilating or air-conditioning outlets. Exposed joists or beamed ceilings may also affect safe spacing limitations for detectors. It is mandatory to precisely follow NFPA 72 regulations, as well as applying professional engineering judgment, regarding detector locations and spacing.

LED Indicators

Flash Color	Condition	Flash Interval (in seconds)
Green:	Normal supervisory operation.	10
Yellow:	Detector is in trouble and needs replacement.	5
Red:	Alarm condition.	2.5
No Flash:	Detector is not powered, or detector requires repair.	— —

Mounting Diagrams



Technical Data

Audible Output: (Models ADB-11 and ADBX-11)	85dB @ 10 feet / min.
Voltage Rating: (Model ADB-11)	17VDC — 31VDC (zone power)
Supervisory Current: (Model ADB-11)	0mA
Alarm Current: (Model ADB-11)	24mA @ 25VDC
Constraint: (Model ADB-11)	Only one (1) device is guaranteed to activate per zone.
Voltage Rating: (Model ADBX-11)	17VDC — 31VDC (AC power) 20VDC — 27VDC (full wave on battery)
Supervisory Current: (Model ADBX-11)	0mA
Alarm Current: (Model ADBX-11)	24mA @ 25VDC
Alarm Current: (Model ADBH-11)	37mA @ 25VDC

Compatible Detectors

MODEL OR TYPE	PART NUMBER	PRODUCT
ADB-11		
HI121	S54372-F3-A1	Thermal (Heat) Detector
OH121	S54372-F2-A1	Multi-Sensor Smoke Detector
OP121	S54372-F1-A1	Photoelectric Smoke Detector
DT-11	500-095430	Low-Profile Thermal Detector
PE-11	500-094150	Conventional Photoelectric Smoke Detector
PE-11T	500-095150	Photoelectric Smoke Detector with 135°F Thermal Sensor
ADBH-11		
HFP-11	500-033290	FirePrint™ Detector
HFPT-11	500-033380	Thermal Detector
ADBX-11		
FP-11	500-095112	FirePrint™ Intelligent Detector
FPT-11	500-095918	Thermal Detector

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
ADB-11	500-096117	Audible-Base Detector
ADBX-11	500-096181	Audible-Base Detector
ADBH-11	500-033210	Smoke-Detector Accessory
DB-ADPT	500-094187	Adapter for Model PE-11 to Model DB-3 Base
DB-11	500-094151	Low-Profile Surface-Mount Base
DB-11E	500-094151E	Smaller-Diameter Detector Base
DMK-11	500-695338	Detector Maintenance Kit
LK-11	500-695350	Model PE-11 Detector-Locking Kit
PE-11	500-094150	Conventional Photoelectric Smoke Detector
PE-11T	500-095150	Photoelectric Smoke Detector with 135°F Thermal Sensor
RLC-11	500-694625	Remote LED Ceiling Mount Detector, Red
RLW-11	500-694626	Remote LED Wall Mount Detector, Red
RR-11	500-694922	Relay Module
RSAC-11	500-694935	Remote, Multi-Color LED: Ceiling Mount
RS AW-11	500-695101	Remote, Multi-Color LED: Wall Mount
HI121	S54372-F3-A1	Thermal Detector
TM121	S54372-S12-A1	Test Magnet
OH121	S54372-F2-A1	Photo Thermal Smoke Detector
OP121	S54372-F1-A1	Photoelectric Smoke Detector

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice.
The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

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