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SPECTRAlert®

SpectrAlert Outdoor Horn/Strobe

For use with model: P12015K

The Products to which this manual applies may be covered by one or more of the following U.S. Patent numbers: 5,914,665; 5,850,178; 5,598,139; 6,049,446; 5,593,569; 6,133,843

Specifications

Rated Voltage:	Regulated 120 VAC
Operating Voltage Limits:	96-132 VAC
	NOTE: Combo units will operate on walk tests with on-time durations of 1 sec. or greater.
Flash Rate:	1 Flash Per Second
Operating Temperature:	Horn/Strobes have a temperature range of -40°F to 150°F (-40°C to 66°C) and are rainproof per UL50 (NEMA 3R). Horns are indoor/outdoor listed per UL464. Strobes are indoor/outdoor listed per UL1638.
Light Output:	Listed at 15 candela (2.78cd @ -40°C).
Sound Output:	Sound output levels are established at Underwriters Laboratories in their reverberant room. Always use the sound output specified as UL Reverberant Room when comparing products.
Listings:	UL S4011 and S3593

General Description

The SpectrAlert series notification appliances are designed to meet the requirements of most agencies governing these devices, including: NFPA, The National Fire Alarm Code, UL, CSFM, MEA. Also, check with your local Authority Having Jurisdiction for other codes or standards that may apply.

The P12015K must be installed using a 120 VAC power source. This unit can only be used for non-synchronous applications. This unit will NOT work with SpectrAlert Sync•Circuit Modules.

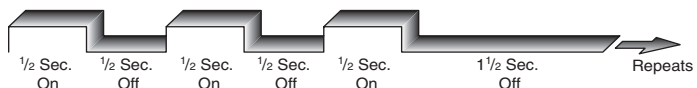
NOTICE: This manual shall be left with the owner/user of this equipment.

Fire Alarm System Considerations

Temporal and Non-Temporal Coded Signals:

The American National Standards Institute and the National Fire Alarm Code require that all horns used for building evacuation installed after July 1, 1996, must produce Temporal Coded Signals.

Signals other than those used for evacuation purposes do not have to produce the Temporal Coded Signal. Temporal coding is accomplished by interrupting a steady sound in the following manner:



Current Draw Measurements – Both Horn and Strobe

Maximum Current Limit: 261.6mA RMS (as measured by UL)

Sound Output Guide		UL Reverberant Room dBA@ Volts AC RMS		
		96	120	132
Temporal	Electromechanical	78	78	78
	3000 Hz Interrupted	79	79	79
Non-Temporal	Electromechanical	83	83	83
	3000 Hz Interrupted	84	84	84

Horn Selections

Horns are factory set for temporal code and electromechanical tone.

Tones:

Two tones may be selected using the DIP switch (see Figure 1) located on the printed circuit board. With the switch off, the tone is the Electromechanical sound. With the switch on, the tone is a 3 kHz sound.

Temp/Non-Temp:

Temporal coding or Non-Temporal coding can be selected using the DIP switch located on the printed circuit board. With the switch off, the tone pattern is the Temporal Coded Signal. With the switch on, the Non-Temporal code (continuous) tone is active.

System Operation

Figure 1 (Note: power inputs are non-polarized):

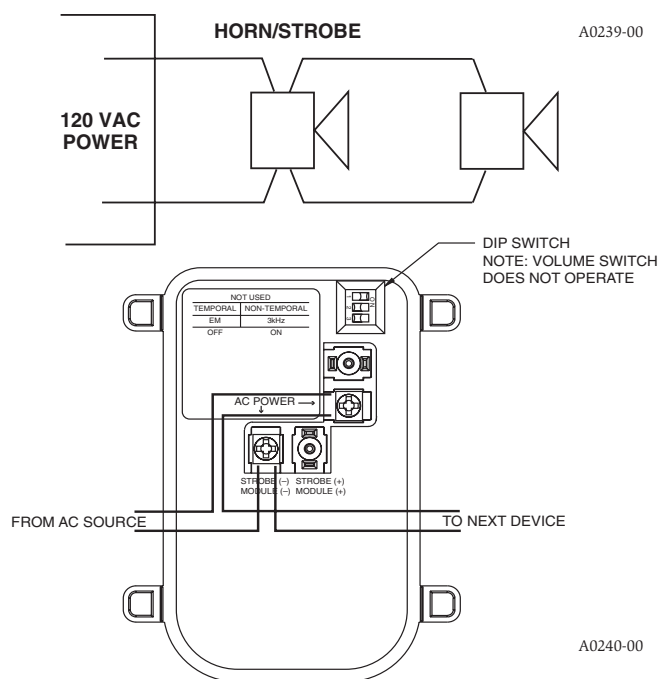


Figure 2: Removal of horns and strobes from mounting plates:

To remove units from mounting plates, insert Quick Click Removal Tool as shown to unlock snap. While pushing in Removal Tool to release the snap, pull back on the horn/strobe. Hinge the horn/strobe module, disengage the Locking Rib, and lift the horn/strobe away from the mounting plate.

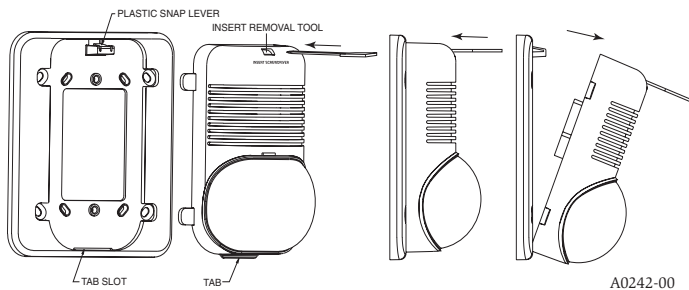
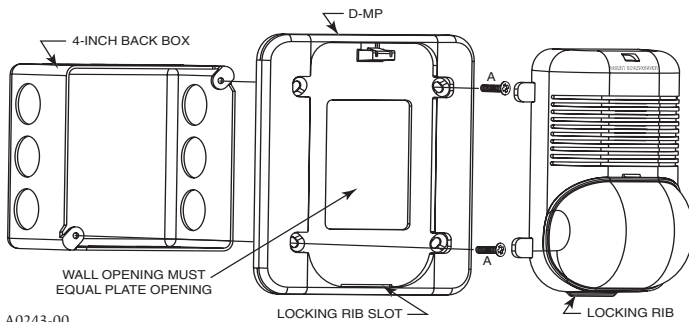
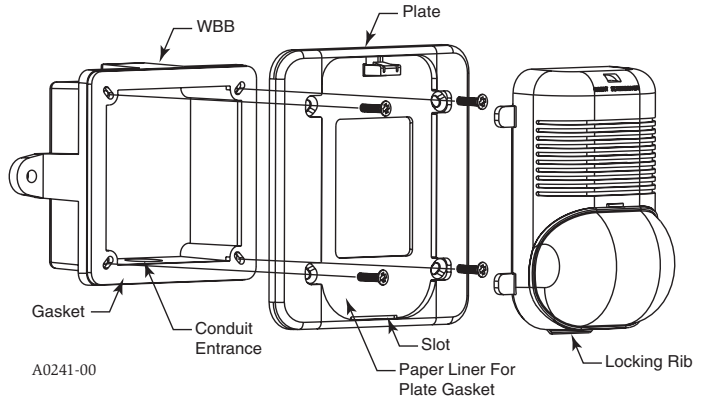


Figure 4: Indoor Horn/Strobe mounting with universal plate:



1. Mount plate to back box using 2 screws, making sure wall opening is equal to the plate opening.
2. Complete field wiring.
NOTE: Perform electrical tests first, then remove liner.
3. Remove liner – **WARNING! Liner must be removed from gasket before final installation.**
4. Insert locking rib into slot on plate.
5. Press into plate, unit will make a “click” when it has locked into place.

Figure 3: Outdoor Horn/Strobe mounting with universal plate:



1. Mount plate to back box using 4 screws (Figure 3).
2. Complete field wiring.
NOTE: Perform electrical tests first, then remove paper liner.
3. Remove liner – **WARNING! Paper liner must be removed from gasket before final installation.**
4. Insert locking rib into slot on plate.
5. Press into plate, unit will make a “click” when it has locked into place.

Note: The outdoor horn/strobe must be used with a WBB back box when installed in applications requiring the outdoor horn/strobe to be rainproof. In such applications, using a back box other than the WBB will void the rainproof per UL50 designation.

Please refer to insert for the Limitations of Fire Alarm Systems



The Limitations of Horn/Strobes

The horn and/or strobe will not work without power. The horn/strobe gets its power from the fire/security panel monitoring the alarm system. If power is cut off for any reason, the horn/strobe will not provide the desired audio or visual warning.

The horn may not be heard. The loudness of the horn meets (or exceeds) current Underwriters Laboratories' standards. However, the horn may not alert a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. The horn may not be heard if it is placed on a different floor from the person in hazard or if placed too far away to be heard over the ambient noise such as traffic, air conditioners, machinery or music appliances that may prevent alert persons from hearing the alarm. The horn may not be heard by persons who are hearing impaired.

The signal strobe may not be seen. The electronic visual warning signal uses an extremely reliable

xenon flash tube. It flashes at least once every second. The strobe must not be installed in direct sunlight or areas of high light intensity (over 60 foot candles) where the visual flash might be disregarded or not seen. The strobe may not be seen by the visually impaired.

The signal strobe may cause seizures. Individuals who have positive photic response to visual stimuli with seizures, such as persons with epilepsy, should avoid prolonged exposure to environments in which strobe signals, including this strobe, are activated.

The signal strobe cannot operate from coded power supplies. Coded power supplies produce interrupted power. The strobe must have an uninterrupted source of power in order to operate correctly. System Sensor recommends that the horn and signal strobe always be used in combination so that the risks from any of the above limitations are minimized.

Three-Year Limited Warranty

System Sensor warrants its enclosed horn, strobe or horn/strobe to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this horn, strobe or horn/strobe. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the replacement of any part of the horn, strobe or horn/strobe which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning System Sensor's toll free number 800-SENSOR2 (736-7672) for a Return Authorization number, send defective units postage prepaid to: System Sensor,

Returns Department, RA # _____, 3825 Ohio Avenue, St. Charles, IL 60174. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

FCC Statement

SpectrAlert Horn/Strobes have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.