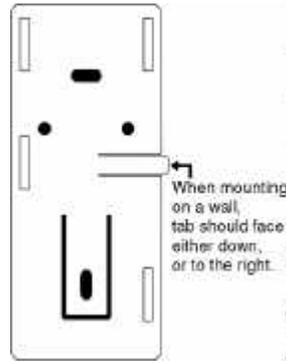


Mounting the Detector

Once you have found a location that is within range of the receiver, you can mount the WLS912.

1. Remove the mounting plate from the detector.
2. At the selected mounting location, place the mounting plate on the wall (with the tab facing down, or to the right), or on the ceiling. Mark the screw locations. Wall anchors should be used for all screw locations.
3. Secure the backplate to the wall.
4. Slide the detector onto its backplate.
5. Repeat the installation test using the AFT-100 tester to confirm proper operation.



FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by Digital Security Controls Ltd. could void your authority to use this equipment.

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

Limited Warranty

Digital Security Controls Ltd. warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in material and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond control of Digital Security Controls Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether express or implied and of all other obligations or liabilities on the part of Digital Security Controls Ltd. This warranty contains the entire warranty. Digital Security Controls Ltd. neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

In no event shall Digital Security Controls Ltd. be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.



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WLS912 Glassbreak Detector

INSTALLATION INSTRUCTIONS

The WLS912 is a battery-operated glassbreak sensor, designed to detect the sound produced by the shattering of framed glass. Equipped with an RF transmitter, the WLS912 establishes a supervised, one-way communications link with the system controller.

The WLS912 uses Dynamic Signal Processing* to provide accurate detection of plate, laminated, wired and tempered glass types, while rejecting common false alarm sounds.

*Protected under US Patent 5,675,320

Specifications

Operating Voltage 4.5V (three "AA" Alkaline Batteries)

Operating Temperature 0° C - 50°C (32° F- 122°F)

Operating Humidity 5% – 95% RH, non-condensing

Maximum detection range

Glass Type	Thickness	Minimum Glass Size (L X W)	Level 1 Setting	Level 2 Setting
Plate/ Tempered	1/8" 1/4" 3 6mm	12" X 12" 30cm X 30cm	20ft 6m	10ft 3m
Wired/ Laminated	1/4" 6mm	18"X18" 46cmX46cm	20ft 6m	DO NOT USE

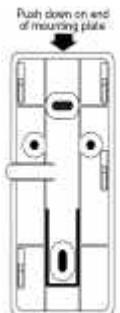
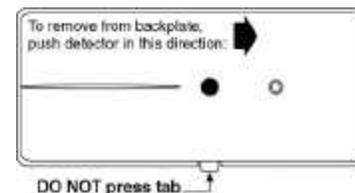
Battery Guidelines and Installation

Before installing batteries, please note the following guidelines:

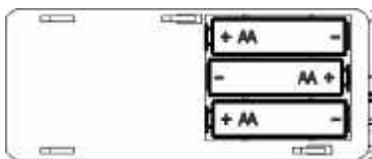
- The detector is designed to work with *Eveready Alkaline Energizer* "AA" batteries. Do not install any other type. "No-name" or generic brand batteries may not provide the best quality and dependability.
- Always replace all three batteries at the same time.
- When disposing of used batteries, follow the instructions and precautions printed on the batteries. Many cities and communities have collection sites or services for used household batteries. Contact your municipal offices for information on the disposal of used batteries.

To install batteries:

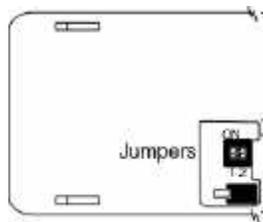
1. Remove the detector from its mounting plate:
If unmounted, hold the detector by its sides and push down on the top end of the mounting plate, as shown at right.
If mounted, press the detector in the direction shown below.



- Install the batteries negative (–) side first, with the correct polarity, as shown below.



Setting the Jumpers



The detector has user-selectable jumper settings as shown.

Jumper 1 Not Used

Jumper 2 Level 1/Level 2 Detection

This is a sensitivity selection jumper which may be used to optimize false alarm immunity for certain acoustic environments.

The detector is factory set for Level 1 detection (Jumper 2 = OFF). This is the highest sensitivity setting for the detector, and will be suitable for most applications.

For rooms which are smaller, and contain a significant number of sound-reflective surfaces (such as bathrooms, kitchens, entrances, etc.), Level 2 detection (Jumper 2=ON) provides a reduced sensitivity setting which may be more appropriate.

Selecting a Mounting Location

The detector is omnidirectional, providing 360 degree coverage. Coverage is measured from the center of the detector to the point on the glass farthest from the detector.

Guidelines for optimizing detection and avoiding false alarms

- For optimum protection, the detector should have a direct line of sight to the protected glass.
- Window coverings will absorb sound from the shattering glass. In these cases, mount the detector as close as possible to the protected glass, either on an adjacent wall, the ceiling, or behind the window covering if possible.
- The detector should be mounted at least 1.8m (6 feet) off the ground.
- Do not mount the detector on the same wall as the protected glass.
- Avoid installation near noise sources, such as speakers or other objects which produce sounds continuously.
- Do not install the detector beyond the maximum recommended range, even if the AFT-100 simulator shows additional range - future changes in room acoustics could reduce the range.
- Application on 24 hour loops should be avoided unless the location is unoccupied.
- Test false alarm immunity by creating any sounds in the room which will likely occur when the alarm system is armed.

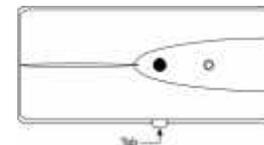
Note: Test the detector thoroughly for proper placement using the AFT-100 Glassbreak Simulator. Other simulators may trip the unit, but will not provide accurate test results.

Testing the detector

Perform the following tests with each WLS912 detector to ensure that it is mounted in the best possible location.

Detection Test:

- Place the detector in test mode by momentarily pressing down on the tab on the base plate, as shown. The LED will blink periodically to indicate that it is operating in test mode. You can end the test mode by momentarily pressing the tab on the base plate. Test mode will end automatically after 10 minutes.
- Use double-sided tape to temporarily mount the detector in the selected location



Note: The detector will not respond to the glassbreak simulator unless the test mode operation has been enabled by momentarily pressing down on the test mode tab on the base plate.

- At the window to be protected, test the detector using the AFT-100 Glassbreak Simulator. The AFT-100 Glassbreak Simulator generates plate or tempered glass sounds. Use the plate glass setting if you are unsure of the glass type. Observe the following when testing the detector:
 - If the WLS912 detects the sound generated by the AFT-100 three times in a row, the detector is in a good location. If the detector does not respond each time, relocate the detector and repeat the test.
 - If the windows in question are covered by drapes or blinds, place the AFT-100 tester behind the closed window coverings, and then activate it. If the drapes prevent reliable detection, we suggest that the detector be mounted behind the drapes either on an adjacent wall or on the ceiling.
 - If there are multiple windows, or one large window, activate the tester at the furthest point on the glass from the detector.

Receiver Test:

You also need to perform a Module Placement Test to ensure that the selected location is in range of the wireless receiver (see the Placement Test instructions in the installation instructions for your receiver).

- Press and hold the test mode tab for 5 seconds
- Release the test mode tab. The keypad will display the test result.

Enrolling the WLS912

On the back of the detector, there will be two serial numbers: a five-digit number and a six-digit number. Please refer to your receiver installation manual for information on which serial number should be enrolled. NOTE: If using a WLS900 system, you must use the five-digit serial number.