JA-60B WIRELESS GLASS BREAK DETECTOR

The JA-60B is a modern wireless glass break detector that provides easy and reliable protection against robbery. It ensures extremely high reliability and false alarm immunity. One sensor covers an entire room, regardless of the number of windows. A dual technology detection method (air pressure and sound analysis) is combined with digital processing to guarantee high sensitivity to the breaking of glass.

A special testing mode enables simple adjustments to the detector. Regular self testing is performed and the final result is transmitted to a control panel. Digital hopping code radio communication guarantees highly secure data transmission. The detector is also protected against tampering.

Specification:

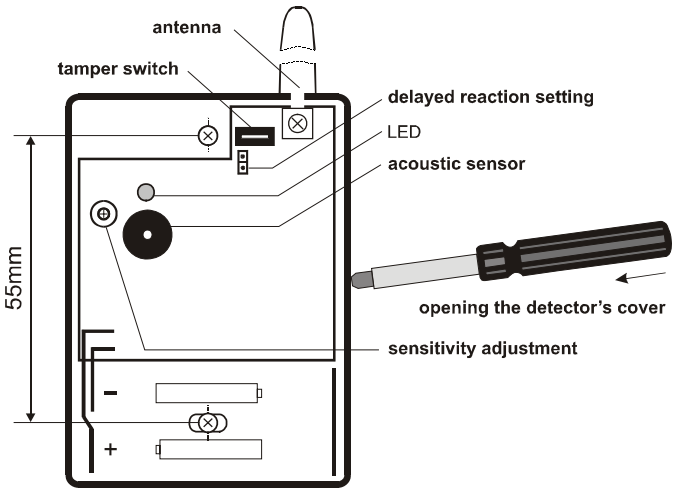
Detection method	*acoustic signal analysis*
Power voltage	*3 V (2x alkaline AAA batteries)*
Battery life time	*typically 1 year*
Detection range	*max. 9 m*
Working freguency	*433,92 MHz*
Communication distance (open air)	*up to 100 m*
Complies with	*EN 50131-1 grade 2*
Environmental class	*II indoor general, -10 to +40°C*

Can be operated according to ERC REC 70-03

Contents of JA-60B set: detector, 2 dowels, 2 screws, 2x AAA batteries

Hereby, Jablotron Ltd., declares that this JA-60B is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. CE

Original of the conformity assessment can be found at the web page www.jablotron.cz, section Technical support.



Installation

The JA-60B can detect the breaking of glass that is part of the peripheral walls of the protected area. The glass must be fixed in a frame and its minimum size must be 0.6 x 0.6 m. The distance between the detector and the glass should not exceed 9 meters. The JA-60B can be mounted on a wall or a ceiling. The unit must have an unobstructed view of the protected glass (in the case of heavy curtains, mount the unit on the widow frame behind the curtains). The detector should not be installed close to any metal surfaces or other objects obstructing radio signal transmission.

Installation procedure:

- Open the detector cover by pressing the internal tab.
- Attach the detector to the wall or ceiling using the 2 provided screws.
- The antenna should be vertical (pointing up or down).
- The INS/DEL jumper should be closed if you want the system to react immediately. Opening the jumper will select for a delayed reaction.
- Do not install JA-60B closer than 0.5 m to other wireless detectors.

Enrollment of the detector to the system

- Study the installation manual of the receiver unit (control panel) to learn how to enter the enrolling mode to enroll the detector.
- Install the two provided AAA batteries into the detector (polarity is marked in the detector) and leave it uncovered.
- The detector will generate an enrollment signal after the batteries are installed.
- The detector needs about 60 sec. to be ready to recognize glass breaking after battery installation. This period is indicated with steady light of the red LED.

Detector testing

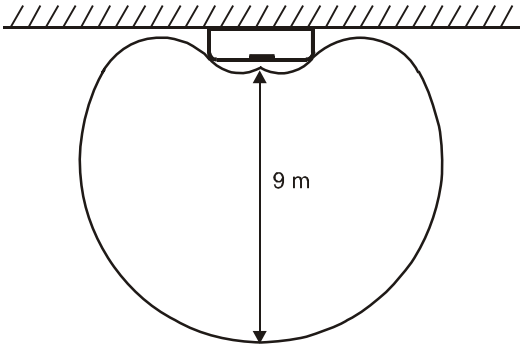
- Attach the detector's cover. From this moment the detector will be in a testing mode for 5 minutes and each triggering will be indicated by the detector's LED.
- Strike carefully the protected glass with a cushioned instrument.
- If the red LED on the detector responds with a short flash, then the low frequency sensitivity is suitable.
- Test the detector's reaction on all protected glass surfaces.
- If the sensitivity is too low, adjust it with the variable resistor (clockwise direction for higher sensitivity and conversely)
- For complete function testing, you can use a suitable glass break simulator (recommended model GBT-201)
- When detecting breaking glass the red LED will light for a longer period and an alarm message will be transmitted to the receiver.
- Five minutes after the cover was attached, the detector will automatically enter the normal mode and its LED indicator will be switched off (battery energy saving function). Open and close the detector's cover to reset the testing mode for an additional 5 minutes if needed.

Notes:

Do not set the sensitivity too high. The device should detect only intensive strikes.

For maximum protection against false alarms, try to activate any device in the area that may automatically cycle such as pumps, generators, heating/air-conditioning, etc. If the cycling device triggers an alarm, mount the unit in a different location.

Detection range of JA-60B



Battery testing and replacement

The detector automatically checks the condition of its batteries. If it is necessary to replace the batteries, the detector will inform the system. While in a low battery mode, the detector works as normal, but each low frequency activation is indicated with a flash of the LED. If a low battery is indicated, it should be replaced as soon as possible (in a week).

Before the batteries are replaced, the receiver (control panel) must be put into the mode which allows for the opening of the detector (User or Programming mode).

Use only high quality alkaline AAA batteries for replacement. After you remove old batteries, wait 30 sec. before you install new ones.

Possible problems

No reaction after inserting batteries – remove the batteries and check if they were inserted with the correct polarity, check their voltage

False alarms – some devices can generate frequencies that are similar to the spectrum of breaking glass. (See paragraph Detector testing)

False alarms occurs when entering the premises - certain noises (e.g. squeaking doors) can activate the detector – open the jumper inside to set the JA-60B for delayed reaction

Unstable radio communication – ensure that there isn't any metal barrier between the detector and the receiver (control panel) and that the detector's antenna is positioned in parallel to the control panel's antenna (but they should not be in one line).

Note: Dispose of batteries safely depending on the type of the batteries and local regulation. Although this product does not contain any harmful materials we suggest you to return the product to the dealer or directly to the producer after usage.

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