

GBS-210 "VIVO" glass break detector

The GBS-210 glass break detector detects the breaking of glass windows. A dual technology detection method (air pressure and sound analysis) is used. Used processing guarantees high sensitivity to the breaking of all types of glass. The sensitivity can be adjusted to compensate for various window sizes and mounting distances. The GBS-210 distinguishes itself with outstanding RF immunity. A built in LED indicator allows for easy testing and it also provides an optional alarm memory feature.

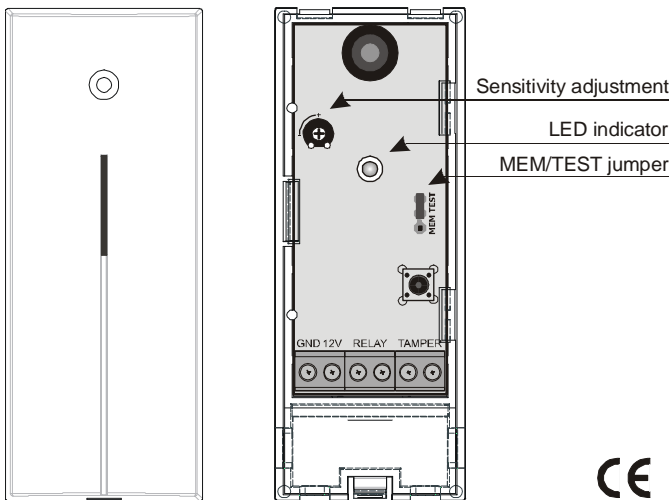
Specification

Power supply:	12 V DC \pm 25%
Power consumption (LED off):	max. 10 mA
Maximum consumption (LED on):	max. 35 mA
Terminals size:	1 mm ²
Alarm output:	normally closed, max. 60V / 50 mA, internal resistance max. 16 Ohm
Tamper output:	normally closed, max. 60 V / 50 mA, internal resistance max. 16 Ohm
Detection range:	max. 9 m
Minimum glass dimensions:	0.6 x 0.6 m
Initialization:	max. 60 s
Security level	grade 2, EN 50131-1
Environment	II. – general indoor, (EN 50131-1)
Operating temperatures	-10 to +40 °C

Complies with the essential requirements of: 89/336/EC EMC Directive - Protection concerning electromagnetic compatibility when is used for its intended purpose. Original of the conformity assessment can be found at the web page www.jablotron.cz, section Technical support.

Note: 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.

Installation



The *Vivo* is designed for indoor applications. It should be mounted on a flat wall. The unit must have an unobstructed view of the protected glass (in the case of heavy curtains, mount the detector on the window frame behind the curtains). Do not place the detector close to any apparatuses that can generate air pressure changes, low frequency noise or vibrations.

1. **Open the cover of the detector** (press in the plastic tab on the bottom with a screwdriver).
2. **Remove the PCB** by pressing the flexible tab.
3. **Punch through the pre-formed holes** for cables and screws.
4. **Attach the rear housing section to the wall.**
5. **Return the PCB into the housing** and connect wires to the terminals.
6. **Close the cover.**

Note: To avoid damaging the microphone when closing the cover, ensure that the front housing is properly aligned before snapping shut!

Terminals

+12V, GND	power supply
TAMPER	tamper output (normally closed)
RELAY	alarm output (normally closed)

Jumpers

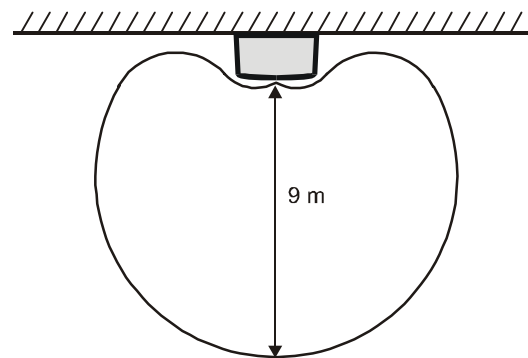
MEM/TEST jumper controls the red LED function in the following way:

- a) **TEST** – red LED confirms detector's triggering
- b) **MEM** – red LED indicates an alarm memory (it can be erased by temporarily switching off the power supply or disconnecting the jumper).
- c) If the jumper is **removed**, the red LED will remain off.

Testing and adjusting the detector

Place the MEM/TEST jumper to the TEST position (red LED will indicate triggering).

- Strike carefully the glass with a cushioned instrument. *Attention*, do not break the glass!
- The red LED will flash shortly after a strike if the air pressure sensor sensitivity is suitably set.
- The sensitivity can be adjusted with the variable resistor. *Note:* Too high sensitivity can be a source of false alarms.
- For complete testing of the detector it is recommended to use the GBT-212 glass break simulator. The red LED will light for 2 seconds if glass breaking is detected.



GBS-210 "VIVO" working range diagram

Notes:

- a) If there is any device in the protected area which can generate a loud noise (air conditioning, heating or cooling systems etc.), ensure that this noise does not trigger the glass break alarm. If it does, it is necessary to relocate the detector or assure that these devices will not be on when the security system is armed.
- b) The memory function can be used to determine the source of an alarm in the system. If several detectors are used in one zone, you can set the MEM/TEST jumper into the MEM position. Then, if this detector triggers an alarm, the red LED will remain on until the power supply is switched off or the MEM/TEST jumper is disconnected. The detector operates as usual even while the memory of alarm is indicated.
- c) A glass break detector located at the entrance can trigger a false alarm when opening the door (air pressure change combined with keys clinking on glass or a door's squeaking can simulate the glass break noise). Therefore it is recommended to connect the glass break detector into the delay zone of a control panel.



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