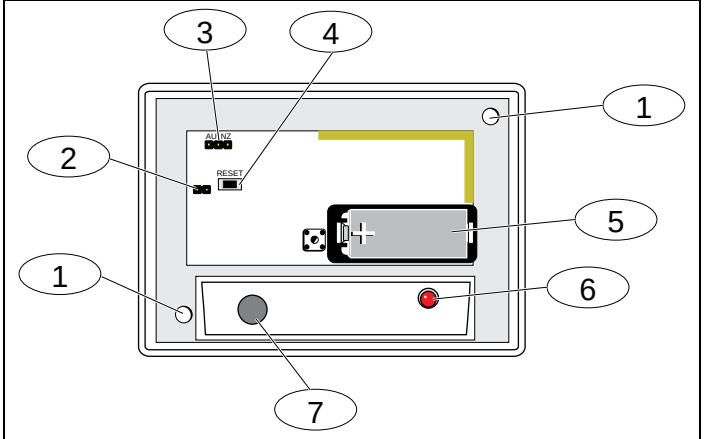
Overview

The ISW-EN1247 is an acoustic glassbreak sensor that transmits digital RF messages to Bosch Security Systems, Inc. wireless receivers.

Figure 1: Glassbreak Sensor-Transmitter Components



1 - Mounting holes
2 - Tamper pins
3 - Frequency Band pins:
No jumper (default) = North America (902 – 928 MHz)
AU = Australia (915 – 928 MHz)
NZ = New Zealand (921 – 928 MHz)
4 - RESET button
5 - 3 V battery
6 - Sensor LED
7 - Microphone

1.0 Mount the Sensor-Transmitter

Use the provided anchors and screws to mount the sensor-transmitter, while following these best practices:

- To avoid false alarms, install the unit as a perimeter zone that is armed only when the perimeter doors and windows are armed. Installing the unit as a 24-hour zone can create false alarms.
- Mount the sensor-transmitter at least 0.91 m (3 ft) from the window to be monitored, but no more than 7.62 m (25 ft) away.
- Mount the sensor-transmitter at least 1.2 m (4 ft) away from noise sources (televisions, speakers, sinks, doors, and so on).
- Mount the sensor-transmitter so that it is in a direct line of sight of all protected windows.
- The best location for mounting the sensor-transmitter is on the opposite wall of the protected window. You can also mount the sensor-transmitter on the wall adjoining the protected window, or on the ceiling.
- The glass should have the following dimensions:
  - Dimensions: 0.3 m x 0.6 m (1 x 2 ft) or larger
  - Plate thickness: 2.4 mm to 6.4 mm (3/32 to 1/4 in.)
  - Tempered thickness: 3.2 mm to 6.4 mm (1/8 to 1/4 in.)
  - Wired thickness: 6.4 mm (1/4 in.)
  - Laminated thickness: 3.2 mm to 6.4 mm (1/8 to 1/4 in.)
- Avoid glass airlocks and glass vestibule areas, noisy kitchens and residential car garages.
- Avoid rooms smaller than 3 x 3 m (10 x 10 ft), such as small utility rooms, stairwells, and small bathrooms.
- Because the unit is not hermetically sealed, avoid humid rooms.
- Avoid rooms where white noise, such as air compressor noise, is present (a blast of compressed air can cause a false alarm).
- Avoid rooms with noise insulation or sound-deadening drapes, or with closed wooden interior window shutters.
- Avoid placing the sensor-transmitter in the corner of a room.

2.0 Select the Frequency Band

> The Tamper pins are used to test the sensor-transmitter. If the jumper is removed from the Tamper pins, the unit remains in the tampered state, and does not function.

Select the appropriate frequency band for your geographic area.

1. Place a selection jumper on the appropriate Frequency Band pins (refer to *Figure 1*).
2. Press the RESET button.

> When pressing the RESET button, do not touch the Frequency Band pins. Touching the Frequency Band pins while pressing the RESET button can inadvertently set the detector to the wrong frequency band.

3.0 Install the Battery

1. Press the housing release tab on the bottom of the sensor-transmitter's housing, then pull the housing apart.
2. Install the battery (*Figure 1*).
3. Press the Reset button to initialize the transmitter.

> You must press the RESET button each time you change the battery.

4.0 Register the Sensor-Transmitter

To ensure that the sensor-transmitter is supervised by the system receiver, you must register its transmitter with the system receiver. Each device has a unique factory-programmed identification number. Refer to the receiver, network coordinator, or control panel installation instructions for details on registering a transmitter.

1. Open the sensor-transmitter's housing.
2. When prompted to reset the sensor-transmitter, press the RESET button (*Figure 1*).
3. Close the sensor-transmitter's housing.

> Test the sensor-transmitter after registration to ensure operation. Refer to *Section 5.0 Test the* .

5.0 Test the Sensor-Transmitter

Test the sensor-transmitter after installation.

1. Remove the jumper from the Tamper pins to test the transmitter (*Figure 1*). This causes a tamper fault.
2. To confirm that the sensor has power and the microphone and circuit board are functioning, clap your hands loudly in front of the sensor. The LED blinks twice without activating an alarm.
3. For complete testing, use the Sentrol® 5709C Acoustic Glassbreak Tester to place the unit in Test Mode and simulate alarm conditions using sonic bursts.

6.0 Specifications

Dimensions (H x W x D):	108 x 80 x 43 mm (4.2 x 3.1 x 1.7 in.)
Typical Battery Life:	2 years
Battery:	3.0 V lithium Panasonic® CR123A or approved equivalent
Operating Environment:	-20° to 60°C (-4° to 140°F), noncondensing
RF Frequency Range:	902 - 928 MHz
Microphone:	Omnidirectional electret

Trademarks

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