



PRELIMINARY 10/29/03

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Product Information

The sensor can be installed on doors, windows, and many other objects that open and close. The sensors transmit signals to the Control Panel when a magnet mounted near the sensor is moved away from or closer to the sensor. The 900 MHz Long-Life Door/Window Sensor is equipped with a wall and cover tamper for additional security. Extend the battery life of the sensor by adding a second 3-volt lithium battery.

Installation Guidelines

Use the following guidelines for installing Door/Window sensors.

- Mount the sensor on the door frame and the magnet on the door. If the sensor is to be used on double doors, mount the sensor on the least-used door and the magnet on the other door.
- If possible, locate sensors within 30 meters of the panel. While a transmitter may have a range of 150 meters or more out in the open, the environment at the installation site can have a significant effect on transmitter range. Sometimes a change in sensor location can help overcome adverse wireless conditions.
- Make sure the alignment arrow on the magnet points to the alignment mark on the sensor.
- Place sensors at least 12 cm above the floor to avoid damaging them.
- Avoid mounting sensors in areas where they will be exposed to moisture or where the operating temperature (0° to 49° C) will be exceeded.

Materials Needed

- #6 flathead screws
- Screwdriver or brad driver

Verify Programming and Sensor-to-Panel RF Communication

Before mounting, verify the desired detector location provides good RF communication to the panel.

1. Put panel/receiver into sensor test mode.
2. Take sensor to desired mounting location.
3. Trip the sensor. The sensor transmits a test signal.
4. Listen for siren beeps to determine appropriate response (refer to the panel/receiver *Installation Instructions*).
5. Exit sensor test mode.

To install Door/Window sensors:

1. Remove the sensor cover by pressing a small screwdriver into the slot on the end of the sensor while lifting the cover.

Note

If you need to connect external switches, they should be installed at this point. See the procedure for connecting external switches in this document.

2. Mount the sensor base with two #6 flathead screws at the locations shown in Figure 2.

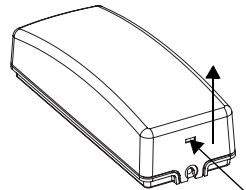


Figure 1. Opening the Sensor Cover

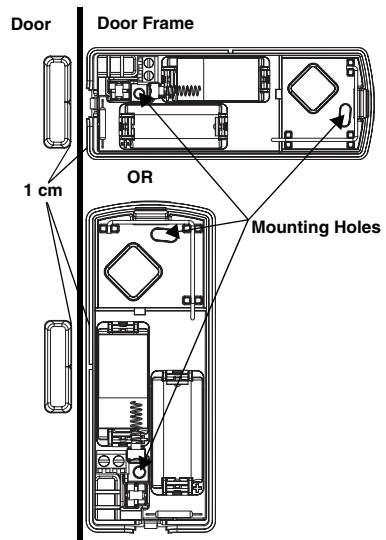


Figure 2. Mounting the Sensor and Magnet

3. Remove the magnet from its base. Line up the arrow on the magnet with the mark on the narrow end or side of the sensor.
4. Mount the magnet base no more than 1 cm away from the sensor base. Replace the magnet cover.
5. Install the tamper switch as shown in Figure 3
6. Attach the sensor cover to the sensor base

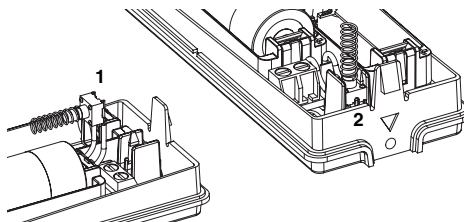


Figure 3. Installing Tamper Switch

Connecting External Switches

External switches used with Door/Window Sensors allow you to protect doors and windows when there is inadequate room for directly mounting the sensor or when you want to locate the Door/Window Sensor in an adjacent but less visible place.

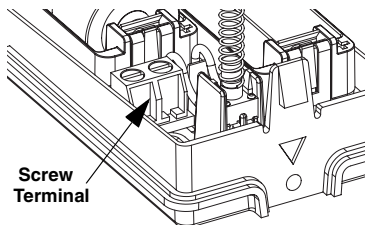


Figure 4. External Switch Terminal

Materials and Tools Needed

- Hermetically sealed external switches (sealed reed switch) that supply a minimum 250 millisecond open on alarm (only normally closed circuits can be used on this sensor)
- 4.7 k ohm EOL resistor
- Stranded 22-gauge wire
- Small wire cutters

Installation Guidelines

1. Install the magnet on the opening edge of the door or movable part of a window.
2. Position the switch on the door or window frame within 2.5 cm of the magnet.
3. Install a 4.7 k ohm EOL resistor in series with the external switch at the switch location, not at the sensor.
4. Remove the sensor cover.
5. Pass the wires on the external switch through the rear opening at the bottom of the sensor.
6. Attach each wire to one side of the screw terminal. Use no more than 3 meters of wire.
7. Press the screw terminal over the wire posts.
8. Mount the sensor.

Programming

The following steps describe the general guidelines for programming (learning) the sensor into panel memory. Refer to the specific panel installation instructions or reference manual for complete programming details.

1. Set the panel to program mode.
2. Proceed to the LEARN SENSORS menu.
3. Trip the sensor tamper switch by removing the sensor cover.
4. Select the appropriate sensor group and sensor number assignments.
5. Exit program mode.

Sensor Test

The sensor test verifies good communication between the detector and panel.

1. Put panel/receiver into sensor test mode (see panel/receiver installation instructions).
2. Open the door the sensor is protecting. The sensor transmits a test signal.
3. Listen for siren beeps to determine appropriate response (refer to the panel/receiver *Installation Instructions*).
4. Close panel cover.

Specifications

Model No.: 60-xxx

Frequency: 900 MHz

Compatibility: GE Interlogix 900 MHz AM Control Panels/Receivers

Battery Type: 3.0 V, 1300 mAh lithium (1 or 2)

Recommended Battery: Duracell DL123A, Panasonic CR123A, Sanyo CR123A

Typical Standby Current (μ A): 3

Estimated Battery Life (at 20° C): 8 years (one battery); 15 years (two batteries)

Supervisory Interval: 6.5 minutes

Typical RF Output Power (mW): 250

Operating Temperature: 0° to 49° C (32° to 120° F)

Storage Temperature: -34° to 60° C (-30° to 140° F)

Relative Humidity: 0 - 90% non-condensing

Dimensions (mm): 45 x 115 x 31 (L x W x H)

Weight (g): 88

Notices

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions.

This device may not cause harmful interference.

This device must accept any interference that may be received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by GE Interlogix can void the user's authority to operate the equipment.

FCC ID: B4Z-824-DWS

