



DesignLine Slim Door/Window Sensor Installation Instructions

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Introduction

This is the GE *DesignLine Slim Door/Window Sensor Installation Instructions* for models TX-1010-01-1 (white) and TX-1010-01-3 (brown). You can install the sensor on doors, windows, and many other objects that open and close. The sensor transmits signals to the control panel when a magnet mounted near the sensor is moved away from or closer to the sensor.

The sensor is equipped with a cover tamper for added security.

Installation guidelines

Use the following installation guidelines:

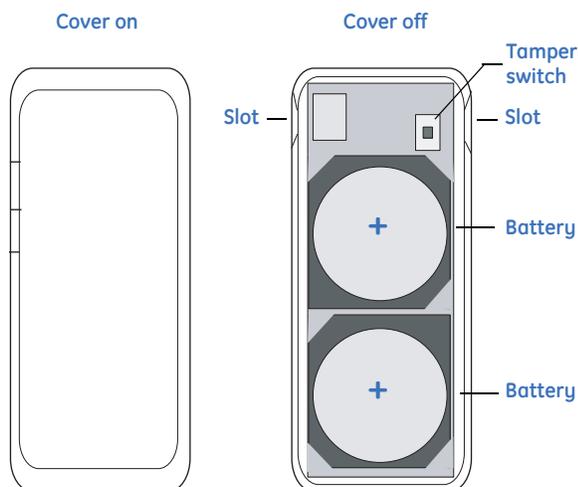
- Mount the sensor on the door frame and the magnet on the door. If the sensor is used on double doors, mount the sensor on the least-used door and the magnet on the most-used door.
- If possible, locate sensors within 100 ft. (30 m) of the panel. While a transmitter may have a range of 500 ft. (150 m) 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 orientation can help overcome adverse wireless conditions.
- Make sure the alignment arrow on the magnet points to the alignment mark on the sensor (*Figure 2*).
- Place sensors at least 4.7 in. (12 cm) above the floor to avoid damaging them.
- Avoid mounting sensors in areas where they will be exposed to moisture or where the sensor operating temperature range of 0 to 120°F (0 to 49°C) will be exceeded.
- Use spacers (not included) to keep sensors and magnets away from metal or metallic surfaces such as foil wallpaper.
- Avoid mounting sensors in areas with a large quantity of metal or electrical wiring, such as a furnace or utility room.

Programming

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

1. To remove the sensor cover, press a small flathead screwdriver into the slot on both sides of the sensor and turn the screwdriver 90 degrees. This will disengage the clips holding the cover and base. (*Figure 1*).

Figure 1. Sensor



2. Set the panel to program mode.
3. Refer to the panel/module documentation for learning sensors.
4. Press and release the tamper switch on the sensor until the panel responds (*Figure 1*).
5. Replace the base of the sensor.
6. Exit program mode.

Verify programming and RF communication

Before mounting the sensor, verify that the sensor mounting location provides good RF communication to the panel.

To verify, do the following:

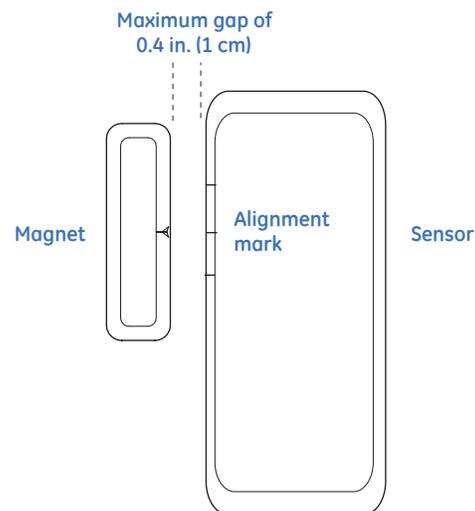
1. Put the panel/receiver into sensor test mode.
2. Take the sensor to the mounting location.
3. Hold the magnet next to the alignment mark on the side of the sensor and then pull the magnet away from the sensor.
4. Listen for siren or keypad beeps to determine appropriate response (refer to the specific panel/receiver installation instructions).
5. Exit sensor test mode.

Mounting

To mount the sensor, do the following:

1. Remove the backing of a large piece of double-sided tape to expose an adhesive surface. Place the exposed adhesive surface on the base of the sensor.
2. Remove the backing from the remaining side of the double-sided tape. Mount the sensor according to the installation guidelines.
3. Use the remaining double-sided tape for the sensor magnet. When mounting the magnet, line up the arrow on the magnet with the middle line on one side of the sensor (*Figure 2*). Mount the magnet no more than 0.4 in. (1 cm) away from the sensor.

Figure 2. Mounting the magnet



Battery replacement

When the system indicates the sensor battery is low, replace it immediately. Use the recommended replacement batteries (see [Specifications](#)) or contact technical support for more information.

To replace the batteries, do the following:

1. To remove the sensor cover, press a small flathead screwdriver into the slot on both sides of the sensor and turn the screwdriver 90 degrees. This will disengage the clips holding the cover and base (*Figure 1* on page 1).
2. Place a small flathead screwdriver in the slot between the metal clip and the battery and twist the screwdriver slightly while holding back one of the black plastic edges holding the battery. Dispose of the old battery as required by local laws.
3. Insert the replacement battery with the + sign facing out.
4. Verify programming and RF communication with the panel. See [Verify programming and RF communication](#) on page 1.

External contact

The sensor ships with a six-inch external contact lead. To use the external contact, open the transmitter, plug in the external contact header (J1), and connect the brown and blue leads to the external contact.

Note: The external wire cannot be longer than 3.3 ft. (1 m).

FCC compliance

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID: B4Z-TX-1010-01

Industry Canada ID: 1175C-TX101001

Specifications

Battery	Panasonic 2032, 3 VDC, 225 mAh, lithium coin battery (5-year typical battery life)
Transmitter frequency	319.508 MHz (crystal controlled)
Transmitter frequency tolerance	± 8 kHz
Transmitter bandwidth	24 kHz
Modulation type	Amplitude shift key (ASK)
Unique ID codes	16 million
Peak field strength	Typical 30,000 uV/m at 3m
External input sampling current	20 uA
Reed switch magnetic sensitivity	10 to 20 amp turns
Reed sensitivity	0.38-in. (0.97-cm) gap
Magnet type	Nd-Fe-B, N45
Magnet dimensions (WxHxD)	1.3 x 0.435 x 0.312 in. (3.3 x 1.1 x 0.79 cm)
Supervisory interval	64 minutes
Operating temperature	10 to 120°F (-12 to 49°C)
Enclosure	PC-540
Weight	0.55 oz. (15 g)
Dimensions (WxHxD)	1.00 x 2.45 x 0.35 in. (2.54 x 6.22 x 0.89 cm)
Colors	White or brown

Technical support

Toll-free: 888.GESECRity (888.437.3287 in the US, including Alaska and Hawaii; Puerto Rico; Canada).
Outside the toll-free area: Contact your local dealer.