SlimLine Door/Window Sensor 868 GEN2
Installation Instructions

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Introduction

This is the GE *SlimLine Door/Window Sensor 868 GEN2 Installation Instructions* for models TX-1011-03-1, TX-1011-03-3, RF1011-03-1, and RF1011-03-3. 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.

Encrypted signals help secure RF communication. The sensor is equipped with a wall and cover tamper for additional 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 30 meters (100 ft.) of the panel. While a transmitter may have a range of 150 (500 ft.) 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 (*Figure 4* on page 2).
- Place sensors at least 12 cm (4.7 in.) 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 49°C (0 to 120°F) will be exceeded.
- If possible, mount directly to a stud. If a stud is not available, use plastic anchors.

Materials needed

You will need the following tools and materials:

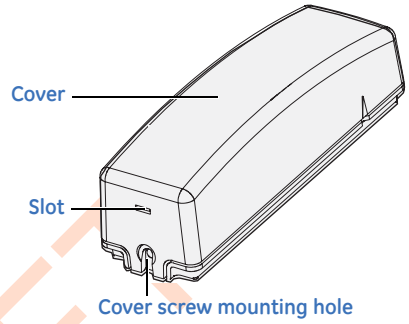
- Two #6 x 1.00 in. PPH (Phillips pan head) screws and two plastic anchors for mounting the sensor (included);
- Two #6 x 0.625 in. PPH screws for mounting the magnet (included);
- One #4 x 0.250 in. PPH screw to secure the sensor cover to the sensor base (included); and
- Phillips screwdriver.

Programming

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

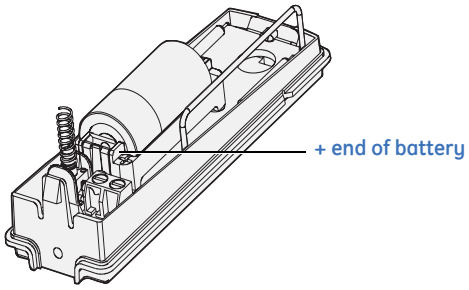
1. To remove the sensor cover, press a small screwdriver into the slot on the end of the sensor while lifting the cover (*Figure 1*).

Figure 1. Removing the sensor cover



2. If required, insert the battery into the battery holder, observing correct polarity (*Figure 2*).

Figure 2. Battery insertion



3. Set the panel to program mode.
4. Proceed to the *Learn Sensors* menu.
5. Press and release the tamper switch on the sensor until the panel responds.
6. Select the appropriate sensor group and sensor number.
7. Exit the program mode.

Verify programming and RF communication

Before mounting the sensor, you need to verify that the sensor mounting location provides good RF communications 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 arrow on the end of the sensor and then pull the magnet away from the sensor.
4. Listen for siren beeps to determine appropriate response (refer to the specific panel/receiver installation instructions).
5. Exit the sensor test mode.

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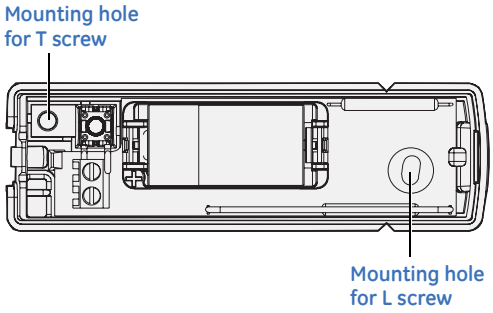
Mounting

To mount the sensor, do the following:

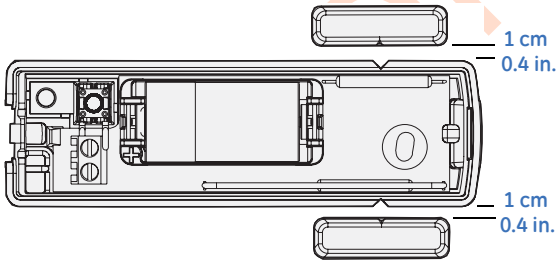
1. Mount the sensor base with two #6 x 1.00 in. PPH screws (included) at the *T* and *L* mounting hole locations (*Figure 3*).
   a. Start both the *T* and *L* screws and turn down about halfway.
   b. Level and tighten the *L* screw first.
   c. Tighten the *T* screw last (do not overtighten the *T* screw).

Figure 3. Mounting holes



2. Remove the magnet from its base.
3. Line up the arrow on the magnet with the small notch on the side of the sensor, depending on the internal reed switch being used (*Figure 4*).

Figure 4. Sensor and magnet alignment



4. Mount the magnet base with the #6 x 0.625 in. PPH screws (included) no more than 1 cm (0.4 in.) away from the sensor base. Replace the magnet cover.
5. Attach the sensor cover to the sensor base and secure with the #4 x 0.250 in. PPH screw (*Figure 1* on page 1).

Sensor test

The sensor test verifies good communication between the sensor and the panel/receiver.

To test the sensor, do the following:

1. Put the panel/receiver into sensor test mode (see the specific panel/receiver's installation instructions).
2. Open the door/window the sensor is protecting. The sensor transmits a signal.
3. Listen for siren beeps to determine the appropriate response (refer to the specific panel/receiver's installation instructions).
4. Exit sensor test mode.

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.

Note: After replacing batteries in encrypted sensors, you must do a sensor test and trip the sensor to resynchronize it with the panel. If the panel and encrypted sensor are not resynchronized, the panel will not respond to signals from that sensor.

To replace the batteries, do the following:

1. Remove the sensor cover (*Figure 1* on page 1).
2. Remove the battery and dispose as required by local laws.
3. Insert the replacement battery, observing correct polarity (*Figure 2* on page 1).
4. Do a sensor test to resynchronize the sensor with the panel. See *Sensor test* on page 2.

Specifications

Model number	TX-1011-03-1, TX-1011-03-3, RF1011-03-1, RF1011-03-3
Frequency	868 Mhz
Compatibility	GE Security 868 GEN2 control panels/ receivers
Battery type	3.0 V, 1300 mAh lithium
Recommended batteries	Duracell DL 123A, Panasonic CR123A, Sanyo CR123A, Varta CR123A
Typical standby current	3uA
Estimated battery life	8 years (at 20°C)
Supervisory interval	Less than 20 minutes
Typical RF output power	25mW
Operating temperature	0 to 49°C (0 to 120°F)
Storage temperature	-34 to 60°C (-30 to 140°F)
Relative humidity	0 to 90% non-condensing
Dimensions (L x W x D)	102 x 32 x 32 mm (4.02 x 1.26 x 1.26 in.)
Weight	44 g

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