

# Installation Instructions

## Introduction

This is the *DesignLine Garage Door Sensor Installation Instructions* for model TX-8010-01-1. The Garage Door Sensor enables you to monitor the opening of your garage door. Once the garage door opens to a 35 degree angle, the sensor will go into an alarm condition turning on the siren and calling the central monitoring station. Under normal use, the sensor transmits open (trip) and close (restore) to the panel each time the garage door is opened or closed. The sensor also sends a supervisory signal to the panel every 64 minutes and is equipped with a cover tamper for added security.

The sensor is designed to be mounted on the top panel of the garage door. A built-in one-second delay feature helps reduce false alarms if the garage door shakes in windy conditions.

## Installation guidelines

Use the following guidelines to install the sensor:

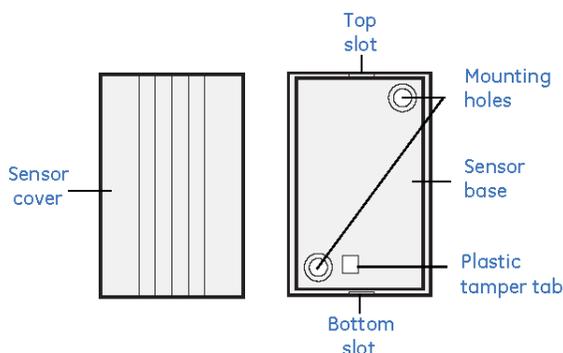
- Mount the sensor on the top panel of the garage door.
- If possible, locate the sensor within 100 ft. (30 m) of the control panel. While a transmitter may have a range of 500 ft. (150 m) or more out in the open, the environment at the installation site can have a significant effect on transmitter range. Sometimes a change in sensor orientation can help overcome adverse wireless conditions.
- Make sure the tamper switch is pointed towards the floor.
- Avoid mounting the sensor in areas where it will be exposed to moisture or where the sensor operation temperature range of 0 to 120°F (0 to 49°C) will be exceeded.
- Avoid mounting the sensor in areas with a large quantity of metal or electrical wiring.

## Programming

This section describes general guidelines for programming (learning) the sensor into the panel's memory. Refer to your control panel documentation for complete programming details. To program the sensor, do the following:

1. To remove the sensor cover from the base, press a flathead screwdriver into the slot on the bottom of the sensor (*Figure 1*) and turn the screwdriver 90 degrees.

*Figure 1. Remove the sensor cover*



2. Put the panel into program mode.

3. Refer to your panel documentation for programming (learning) sensors.
4. Press and release the tamper switch on the sensor (*Figure 1*) until the panel responds.
5. To replace the sensor cover on the base, align the tamper switch with the plastic tamper tab (*Figure 1*) and snap the cover down on the base.
6. Exit programming 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. Tilt the sensor approximately 35 degrees.
4. Listen for the siren or keypad beeps to determine appropriate response (refer to your panel documentation).
5. Exit sensor test mode.

## Mounting

To mount the sensor, do the following:

1. To remove the sensor cover from the base, press a flathead screwdriver into the slot on the bottom of the sensor (*Figure 1*) and turn the screwdriver 90 degrees.
2. Use the base as a template to mark the mounting holes with a pencil.
3. Drill the holes for the screws.
4. Mount the base with the screws provided.
5. To replace the sensor cover on the base, align the tamper switch with the plastic tamper tab (*Figure 1*) and snap the cover down on the base.

## Battery replacement

When the system indicates the sensor battery is low, replace it immediately. Use the recommended replacement batteries (see

Spec) or contact technical support for more information.

To replace the batteries, do the following:

1. To remove the sensor cover from the base, press a flathead screwdriver into the slot on the bottom of the sensor (*Figure 1*) and turn the screwdriver 90 degrees.
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](#)).
5. To replace the sensor cover on the base, align the tamper switch with the plastic tamper tab (*Figure 1*) and snap the cover down on the base.

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## Specifications

Battery CR2032, 3 VDC, 255 mAh, Lithium Coin Cell  
Typical battery life 5 to 8 years  
Transmitter frequency 319.508 MHz (crystal-controlled)  
Transmitter frequency tolerance  $\pm 8$  kHz  
Bandwidth 24 kHz  
Modulation type Amplitude shift key (ASK)  
Unique ID codes 16 million  
Peak field strength Typical 35,000  $\mu\text{V}/\text{m}$  at 3m  
Tilt switch angle 45 degrees  
Supervisory interval 64 minutes  
Operating temperature 10 to 120°F (-12 to 49°C)  
Enclosure PC-540  
Weight 0.63 oz. (18 g)  
Dimensions (L x W x H) 1.70 x 1.10 x 0.91 in. (4.32 x 2.76 x 2.32 cm)  
Color Belgian gray

## Listings

**FCC** 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-8010-01

Industry Canada ID: 1175C-TX801001

## Technical support

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