

TX-8300-01-1 DesignLine Tri-Zone Sensor Installation Sheet

Description

The DesignLine Tri-Zone Sensor provides the following features:

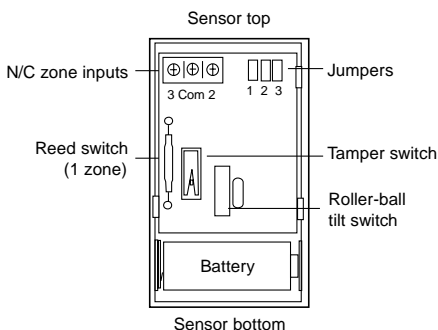
Tri-zone sensing. Protects any three zones in close proximity to each other. Reduces the labor and expense of multiple sensors to protect multiple zones.

Garage door protection. Protects garage doors with tilt sensing capability. Reports faults and restores based on the position of the garage door (no magnet is needed).

Low battery LED indicator. Indicates a low battery condition by flashing the sensor cover LED every 5 seconds.

Tamper switch protection. Provides a tamper switch that indicates if the sensor cover is removed.

Figure 1: Sensor components



Note: You can use a maximum of 18 ft. (6 m) of 24 AWG wire on each zone (2 and 3).

If possible, locate the sensor within 100 ft. (30 m) of the control panel. Open-air range is 500 ft. (150 m); environment can significantly reduce the range.

Programming

Note: Refer to your panel documentation for complete programming information.

You can use the sensor jumpers to enable the sensor to protect three separate areas and report as three separate zones.

Jumper 1. Leave jumper 1 on as positioned by factory default (do not remove).

Jumpers 2 and 3. Use the jumpers as indicated below.

For auto learn mode (default jumper settings):

J 2	J 3	Description
On	On	Sensor will learn in all three zones when you activate the tamper switch.

For manual programming (learning):

J 2	J 3	Description
Off	On	Select the zone to learn by faulting the desired zone. To use the internal reed switch or the tilt switch, zone 1 must be programmed (learned). Zone 1 = Remove the magnet. Zone 2 = Open zone 2 external contact (fault). Zone 3 = Open zone 3 external contact (fault). Note: Replace jumper 2 when the zones have been programmed.

Note: For zone 1, you must select either the reed switch (jumper 3 on) or the tilt switch (jumper 3 off).

Garage door protection

You can use the sensor to secure a garage door without running wires or using a reed switch.

You must program (learn) the sensor before you mount it.

To mount the sensor in a garage door installation:

1. Set jumpers 2 and 3 for your application:

J 2	J 3	Description
On	Off	Tilt switch is on in instant mode (no delay).
Off	Off	Tilt switch is on in 1-minute delay.

2. Mount the sensor to the top panel of the garage door. Secure the mounting bracket to the garage with the tab at the bottom using two screws (provided).
3. Place the sensor (with the opening latch at the top) on the bracket, aligning the holes on the sensor with the mounting tabs on the bracket. Push the sensor down and snap it into place.



Reed switch installations

You must program (learn) the sensor before you mount it.

To mount the sensor in a reed switch installation:

- 1. Make sure jumper 3 is on.
- 2. Secure the mounting bracket to the frame.
- 3. Place the sensor on the bracket and snap it into place.
- 4. Locate the magnet so the magnet aligns with the reed switch in the sensor. Maximum magnet gap is 0.5 in. (1.3 cm). Secure the magnet with the two screws provided.

Figure 2: Magnet spacing

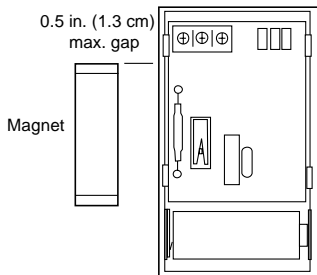
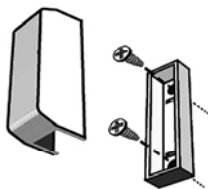


Figure 3: Mounting the magnet



If necessary for your installation, use the spacer provided.

To add the magnet spacer:

- 1. Mount the spacer using the two screws provided.
- 2. Snap the magnet onto the spacer.

Removing the sensor from the bracket

After installation, to remove the sensor:

- 1. Remove the sensor cover.
- 2. Remove the battery.
- 3. To release the sensor from the bracket, press the tab next to the negative battery terminal.
- 4. Lift the sensor off the bracket.

Battery replacement

The LED on the sensor cover flashes every 5 seconds when the sensor detects a low battery.

To replace the battery:

- 1. Remove the sensor cover.
- 2. Remove the battery (use proper disposal methods).
- 3. Replace the battery observing proper polarity. Use the recommended batteries (see “Specifications” below).

Specifications

Frequency	319.5 MHz
Typical RF output power	0.25mW EIRP
Battery	
Type	3 V 1300 mAh lithium,
Replace with	Panasonic CR123A
Typical battery life	5 to 7 years with normal use
Low battery threshold	2.5 V ± .2 V
Wire size	24 AWG
Wire length	18 ft. (6 m) max.
Magnet gap	0.5 in. (1.3 cm) max.
Supervisory interval	70 minutes
Compatible panels	GE Security 319.5 MHz control panels/receivers
Dimensions (W × H × D)	1.7 × 2.9 × 1.0 in. (43 × 75 × 25 mm)
Operating environment	
Temperature	Operating: 14 to 120°F (-10 to 49°C) Storage: -20 to 140°F (-28 to 60°C)
Relative humidity	0 to 90% noncondensing
Weight	1.6 oz. (45 g)

Regulatory information

FCC	<p>This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:</p> <ul style="list-style-type: none">1. This device may not cause harmful interference.2. This device must accept any interference received, including interference that may cause undesired operation. <p>Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.</p> <p>FCC ID: B4Z-TX-8300-01</p> <p>IC: 1175C-TX830001</p>
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Contact information

For contact information see our Web site: www.gesecurity.com.