interlogix
A UTC Fire & Security Company

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

## Description

The DesignLine Tri-Zone Sensor provides the following features:

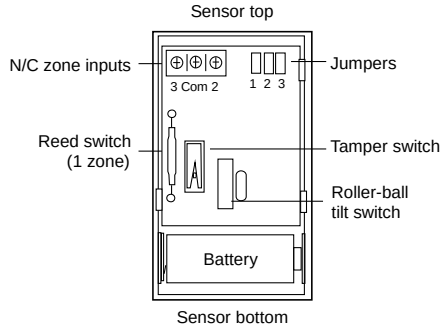
**Tri-zone sensing.** Protects any three zones in close proximity to each other. Reduces the labor and expense of multiple sensors to protect multiple zones.

**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).<br>Zone 1 = Remove the magnet.<br>Zone 2 = Open zone 2 external contact (fault).<br>Zone 3 = Open zone 3 external contact (fault).<br>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). |

| J 2 | J 3 | Description |
|---|---|---|
| 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**

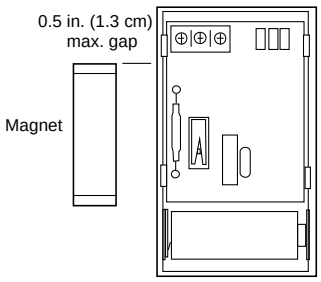
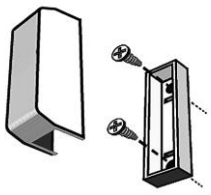



**Figure 3: Mounting the magnet**



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 | 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)<br>Storage: -20 to 140°F (-28 to 60°C) |
| Relative humidity | 0 to 90% noncondensing |
| Weight | 1.6 oz. (45 g) |

## Regulatory information



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| | |
|---|---|
| FCC | This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:<br>1. This device may not cause harmful interference.<br>2. This device must accept any interference received, including interference that may cause undesired operation.<br><br>Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.<br><br>FCC ID: B4Z-TX-8300-01<br><br>IC: 1175C-TX830001 |

## Contact information

For contact information see our

Web site: www.interlogix.com.