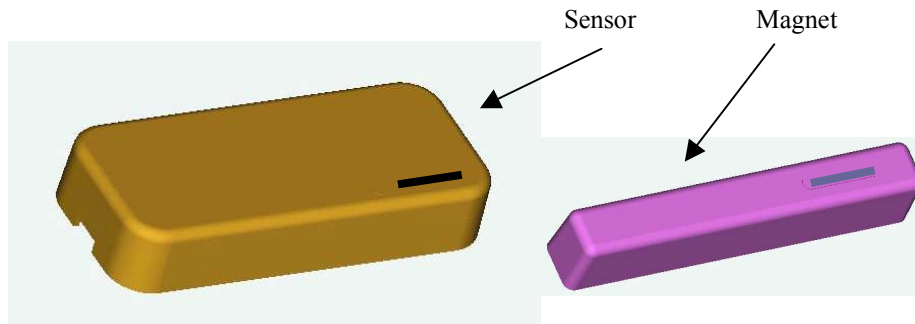


Exterior Window / Door Security Sensor

Installation Instructions

The Exterior Window / Door Sensor/Transmitter detects when a window is closed or opened, and transmits a wireless security message to the System Control Panel. This is accomplished through the use of a sensor unit (which contains the wireless transmitter and battery), and magnet unit. When the two are separated, by opening the window, the sensor transmits an OPEN signal to the System Control Panel. When the window is shut, the magnet is again within the sensor's range, and a CLOSE signal is sent.

Fig 1: Sensor and Magnet



The sensor sends supervisory signals to the panel every 64 minutes (approximately). The sensor is powered by a 3.0V, lithium battery, model CR2032.

Required Tools for Installation

- Installation Sheet for documenting sensor locations
- Screwdriver (if mounting using screws instead of adhesive)

Guidelines

The following guidelines will help ensure that installations are safe and efficient.

- A sensor can be mounted on any side of the window frame (top, side or bottom), such that the opening of the window moves the magnet away from the sensor.
- Always try to mount the hardware such that the magnet, not the sensor, is on the moving window panel. The sensor can be installed on the moving window panel, but should be avoided.
- The device can be mounted on a metal frame, however range will decrease slightly. Do not install the sensor on the frame until confirming the panel can detect the sensor.
- The sensor should be kept as close to the panel or repeater as possible. Try to choose locations where the separation is within 100 ft.
- Avoid mounting the sensor in a location where it will be exposed to moisture.
- Avoid mounting a sensor where temperatures are excessively hot or cold.

⚡ WARNING:

Some installations may have electrical wiring running through the door or window frames. Use caution to avoid electrical shocks.

Preparation

1. Determine a suitable location for the sensor and the magnet. These units are designed to be mounted on the exterior of the frame of the window. The sensor and magnet can be mounted with either the double-sided adhesive tape, or using screws (included with the sensor).
2. Measure and mark where the sensor and magnet will be installed in the window frame. Use the guide provided in Fig 2 for verifying the correct separation of the sensor and magnet.
3. Measure the distance between the window panel and frame. Ensure the separation is no more than 0.500" in height. Note: In cases where the separation may be greater, a larger magnet may be required. Contact the manufacturer for alternate magnets.
4. Verify the sensor will operate properly with the control panel, prior to drilling any holes (refer to the control panel manual for "Entering & Testing Sensors").

Fig 2. Positioning the Magnet and the Sensor relative to each other

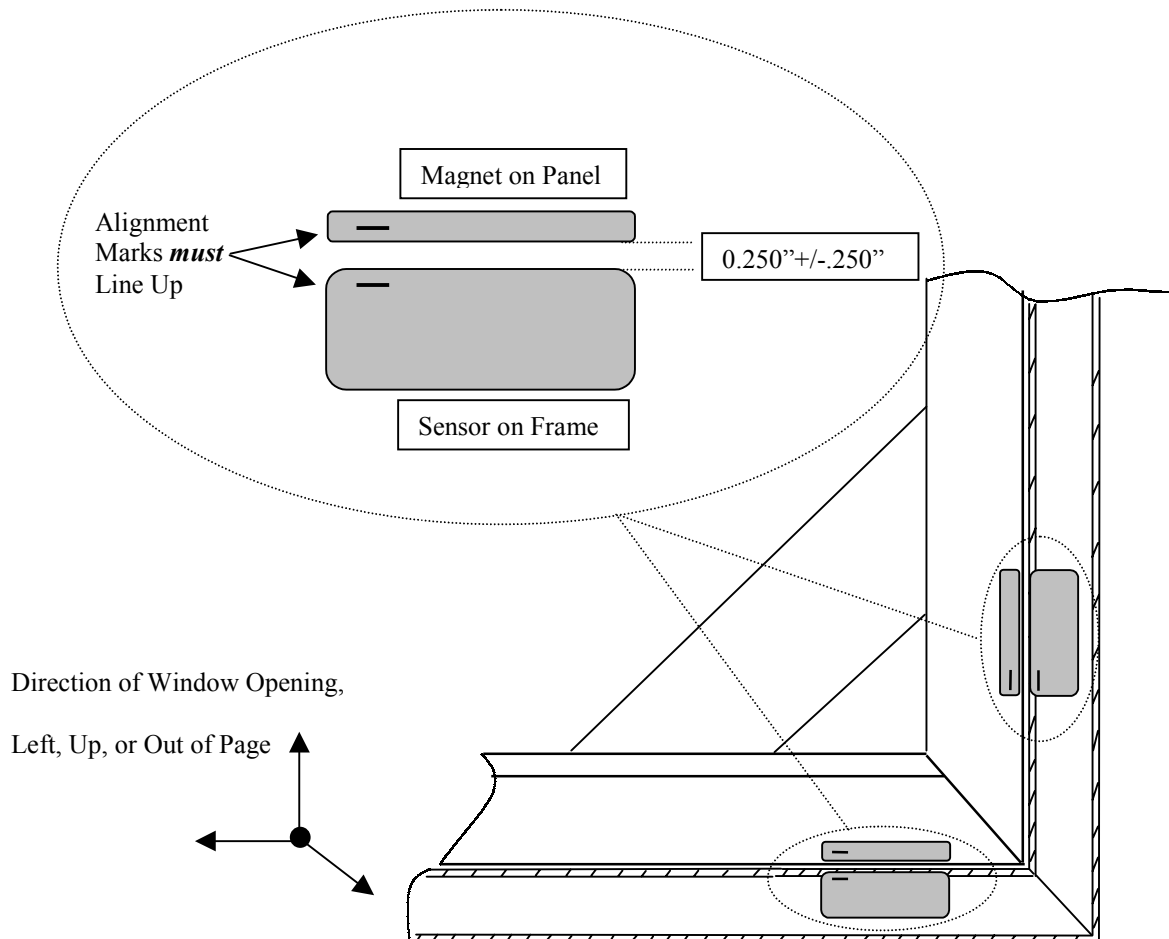


Fig 3: Incorrect Orientations of Magnet and Sensor

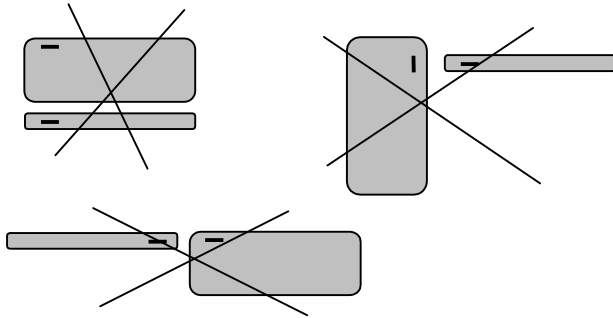
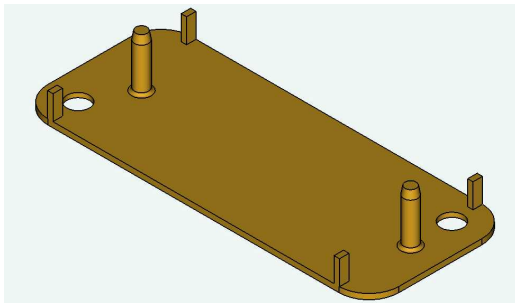


Fig 4. Flat Package, Base, Lid, & Sensor Electronics (including battery)

The Sensor Base mounts onto the Frame by double sided adhesive tape or screws (two holes provided). The Sensor Lid attaches to the base through a pressure fit on two posts. This lid should be closed after confirming the panel is within range of the sensor.

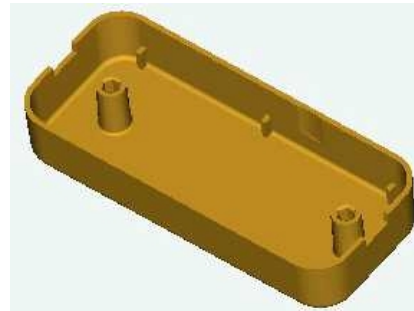
Sensor Base



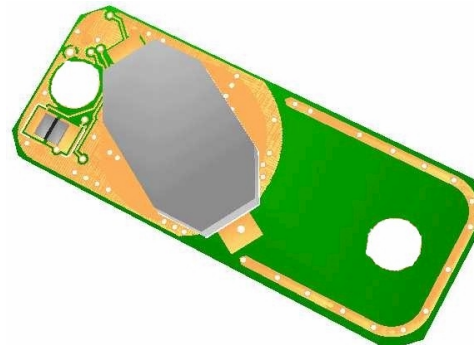
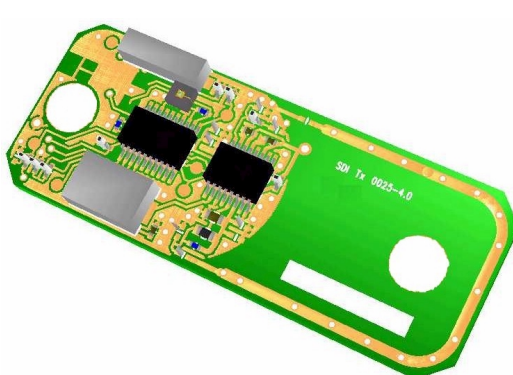
Circuit Board (Top Side)

The circuit board fits into the Lid with the battery side facing the Base of the package.

Sensor Lid



Circuit Board (Battery Side)



Completing the Installation on the Window or Door Frame

1. Once it has been verified that the panel is within range of the sensor, line up the base of the sensor housing against the magnet housing, and attach them to the frame and window.
2. Insert the sensor circuit board into the lid, and push the lid onto the base until it is completely closed. The lid will overlap the base to provide a clean appearance.

Replacing the Battery

The Sensor Cover needs to be removed to replace the battery. On each side of the housing there is a small opening, where a small screwdriver can be used to carefully pry open the Cover.

The sensor requires a Lithium coin cell battery to operate. The type required for this sensor is a CR2032 battery. The battery holder is marked with positive "+" notation on the side of the clip, and the battery is also marked accordingly. Ensure the battery is replaced in the correct orientation.

The battery is expected to last 10+ years for windows, and 5+ years for doors (more frequent openings). For a replacement battery contact SDI or purchase directly from various battery suppliers.

Troubleshooting

- A. Sensor does not communicate with the panel.
- i) Verify that the device is operational, by taking it near the receiver and tripping the magnet. If it is not operational, remove the battery, short the positive and negative terminals together (to ensure the device completely discharges), and retry the device with the panel.
 - ii) If the device operates when close to the panel, it may be a range problem. Wireless devices can experience nulls at the receiver that can appear to reduce useable range. Try moving the receiver 2" to either side from where it was.
 - iii) Ensure the magnet is correctly oriented with the sensor. If the magnet is not within range of the sensor's reed switch (magnetic detector), it will not transmit.
 - iv) If the unit is out of range, a different model sensor may be required, or an additional receiver (or receiver keypad) may be needed for this installation.

Specifications

Dimensions:	Flat Package	2.00" long x 0.80" wide
	Magnet Package	2.00" long x 0.40" wide by 0.40" deep
Power Source:	3.0V Lithium Coin Cell Battery CR2032	
Transmit Range:	At least 500 ft, open air	
Compatibility:	ION Digital 433.92 MHz Receivers	
Temperature Range:	10° to 120° F (-12° to 49° C)	

FCC Notice

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

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