

## INSTALLATION INSTRUCTIONS

### OVERVIEW

The Learn Mode Door/Window Sensor (DWS) uses Learn Mode technology, simplifying sensor programming. You trip the sensor, and the sensor transmits its ID to the Master Control Unit (MCU), which "learns" the sensor. The Learn Mode DWS can be installed on doors, windows, or anything that opens and closes. A Learn Mode DWS transmits signals during normal operation. When a door is opened, the sensor transmits a "TRIP" signal to the MCU. When the door is closed, a "RESTORE" signal is transmitted. *These signals are sent whether the system is armed or not.*

The Learn Mode Door/Window Sensor:

- contains an RF transmitter that can send signals at least 500 feet in open air.
- contains two magnetic reed switches.
- is powered by a 3.5-VDC lithium battery that should last 5 to 8 years. If the battery becomes low, the sensor transmits a low battery (trouble) report to the MCU.
- sends a supervisory signal to the MCU every 64 minutes.
- has screw terminals that will accept normally open or normally closed hardwire devices.
- has an operating temperature range of 10° to 120° F.

### DO

- try to keep all sensors within 100 feet of the MCU. The 100-foot distance recommendation is given as a starting guideline. The DWS has an open air range of at least 500 feet, but the installation environment will influence this range.
- mount the sensor on door frame and mount the magnet on the door. For double doors, mount the sensor on the least used door and mount the magnet on the other door.
- mount the sensor with screws, not double-sided tape.

### DON'T

- place the sensor on a door within 5 inches of the floor to avoid damage to the sensor.
- place the sensor or magnet on any metallic surface such as metal doors or foil wallpaper. If you must, then use spacers to keep the sensor & magnet away from the metal.
- place the sensor in an area with excessive metal or electrical wiring, such as a furnace/utility room.
- place the sensor in an area where it will be exposed to moisture.
- place the sensor in a location where the temperature will exceed the sensor's operating limits of 10° to 120° F.

### INSTALLATION

1. Press down on the sensor cover near the tab to open and remove the sensor cover.

**CAUTION!** It is important to be free of all static electricity when handling sensor circuit boards. Touch a grounded metal surface before handling the circuit board. Always handle the circuit board by the edges and never set the circuit board on any metallic surface.

2. Carefully remove the circuit board by pulling back on the tab and lifting the battery holder, or gently flexing the plastic sensor base to release the circuit board.

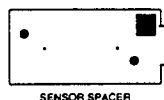
**Note:** To guard against static, place the circuit board in the sensor cover before continuing.

3. Mount the sensor base using #6 flathead screws. Two screw holes are provided, one is enlarged to allow for sensor alignment. Use the two additional small holes for mounting the sensor with 18-gauge wire nails (brads) and a brad driver.

**NOTE:** The sensor base has markings, which indicate the position of the reed switches when the circuit board is reinstalled. Use the markings for aid in alignment. If the sensor will be mounted on a metallic surface or if height alignment is needed, use spacers.

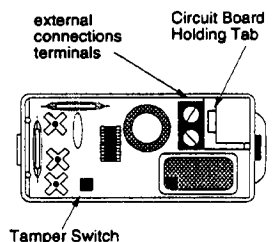
#### Door/Window Sensor Spacers

(white) Part #60-189  
(brown) Part #60-191



#### Magnet Spacers

(white) Part #60-188  
(brown) Part #60-190





## **INSTALLATION INSTRUCTIONS**

### **OVERVIEW**

The Learn Mode Slim Line Door/Window Sensor (DWS) uses Learn Mode technology, simplifying sensor programming. You trip the sensor, and the sensor transmits its ID to the Master Control Unit (MCU), which "learns" the sensor. The Learn Mode Slim Line can be installed on doors, windows, or anything that opens and closes.

The Slim Line transmits signals during normal operation. When a door is opened, the sensor transmits a "TRIP" signal to the MCU. When the door is closed, a "RESTORE" signal is transmitted. These signals are sent whether the system is armed or not.

The Learn Mode Slim Line DWS:

- contains an RF transmitter that can send signals at least 500 feet in open air.
- contains one magnetic reed switch.
- is powered by a 3.5-VDC lithium battery, which should last 1 year. If the battery becomes low, the sensor transmits a low battery (trouble) report to the MCU. In the event of a low battery condition, call your installation dealer for service.
- sends a supervisory signal to the MCU every 64 minutes.
- has an operating temperature range of 10° to 120° F.

### **DO**

- try to keep the sensor within 100 feet of the MCU. The 100-foot distance recommendation is given as a starting guideline. The DWS has an open air range of 500 feet, but the installation environment will influence this range.
- mount the sensor on the door frame and the magnet on the door. For a double-door installation, mount the sensor on the least used door and the magnet on the other door.
- mount the sensor with screws, not double-sided tape.

### **DON'T**

- place the sensor on a door within 5 inches of the floor to avoid damage to the sensor.
- place the sensor or magnet on any metallic surface such as metal doors or foil wallpaper.
- place the sensor in areas with excessive metal or electrical wiring, such as furnace/utility rooms.
- place the sensor in an area where it will be exposed to moisture. Sensors are for indoor use only.
- place the sensor in a location where the temperature will exceed the sensor's operating limits of 10° to 120° F.

## INSTALLATION

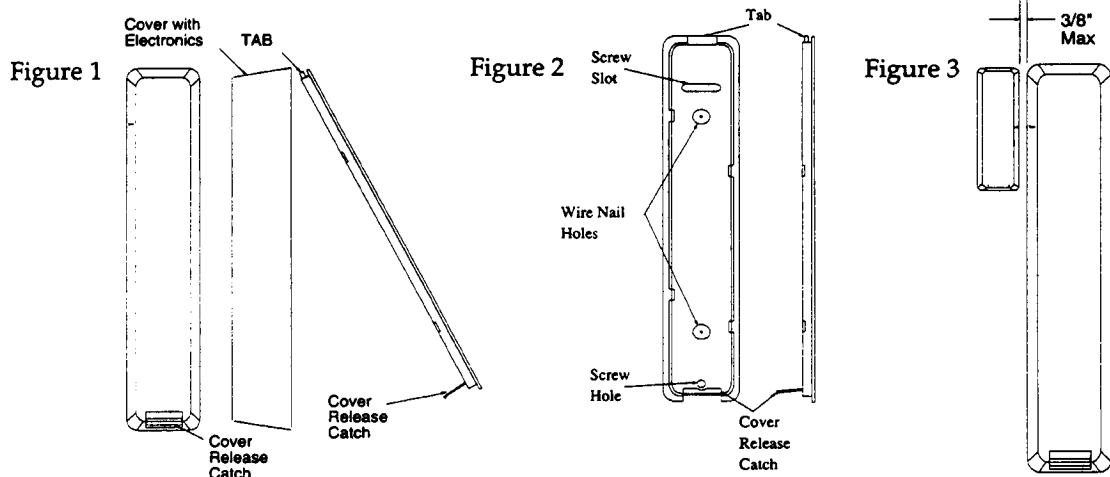
1. Remove the sensor cover by pressing on the cover release catch. This releases the tab on the base from the slot in the sensor cover. (See Figure 1.)
2. Mount the sensor base. Two screw holes are provided, one is enlarged to allow for sensor alignment. Use #6 pan head screws when mounting the sensor. Two small additional holes are provided for mounting the sensor with 18-gauge wire nails (brads) and a brad driver. (See Figure 2.)

**NOTE:** The sensor base is marked to indicate the position of the reed switch when the circuit board is reinstalled. Use the mark for aid in alignment.

3. Mount the magnet base within 3/8" of the sensor's base, centered on the notch or tab. Use two #6 x 1/2" pan head screws or #18 x 1/2" wire nails. (See Figure 3.)

**NOTE:** Be sure the magnet won't interfere with door or window opening. Do not use two-sided tape to mount the magnet.

4. Replace the sensor cover.



## PROGRAMMING

Refer to the *FONSAFE Installation Manual (46-926)* for more detailed instructions on programming this sensor.

General guidelines for programming this sensor are:

1. At the MCU, press PROGRAM, type the Master Password, and enter 2, 1, and 1.
2. Trip the sensor by holding the sensor magnet up to the reed switch and then pulling it away.
3. Enter the sensor code, description number, arming level, and delay status (see the *FONSAFE Installation Manual*).

## TESTING

Refer to the *FONSAFE Installation Manual* for more detailed instructions on testing this device.

General guidelines for testing this sensor are:

1. At the MCU, press TEST, enter the Master Password, and press 0.
2. Trip the sensor.
3. Note the number of beeps indicating the device's signal strength. If the MCU beeps 6 to 8 times, the sensor is fine. If the MCU beeps less than 6 times, reposition the sensor and then repeat the test from step 1.

## FCC NOTICE

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference that may be received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Sprint can void the user's authority to operate the equipment.

## INSTALLATION INSTRUCTIONS

Sprint Support Line: 1-800-854-5666