

## Door/Window Sensor

### Summary

Door/Window Sensors can be installed on doors, windows, or many other objects that open and close. The sensors transmit signals to the control panel when a magnet mounted near the sensor is moved away from or closer to the sensor.

### Installation Guidelines

Use the following guidelines for installing the detector.

- Mount the sensor on the door frame and the magnet on the door. If the sensor is to be used on double doors, mount the sensor on the least-used door and the magnet on the other door.
- If possible, locate sensors within 100 feet of the panel. The environment at the installation site can have a significant effect on transmitter range. Sometimes a change in sensor location can help overcome adverse wireless conditions.
- Make sure the alignment arrow on the magnet points to the alignment mark on the sensor.
- Place sensors at least 5 inches above the floor to avoid damaging them.
- Avoid mounting sensors in area where they will be exposed to moisture or where the operating temperature (10°-120°F) will be exceeded.
- Use spacers (not included) to keep sensors and magnets away from metal or metallic surfaces such as foil wallpaper.

### Mounting

The following illustrations and procedure describe how to install the Door/Window sensor.

1. Remove the sensor cover by pressing the button on the arrow 1 end, shown as Fig-1.



Fig-1

2. Remove the sensor PCBA to access the mounting holes.
3. Mount the transmitter base with two flathead screws at the locations shown in Figure2.

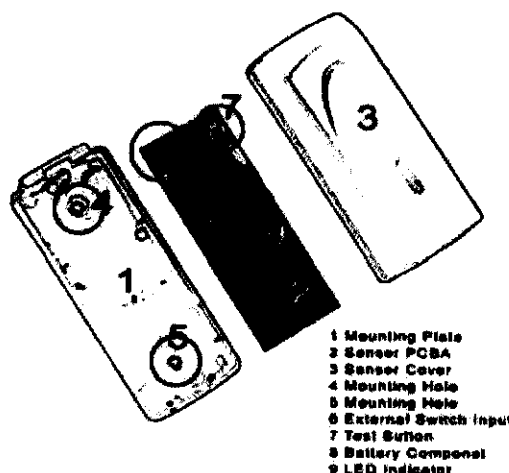
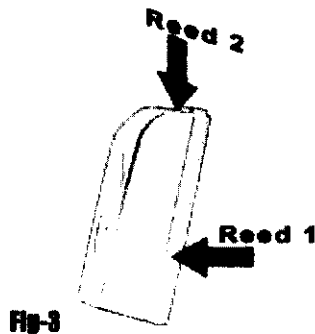


Fig-2

4. Align the arrow on the magnet with the arrow

mark on the transmitter or the location Reed2 as shown on Fig-3.



5. Mount the magnet base no more than 3/8-inch away from the sensor base. Replace the magnet cover.
6. Re-install the batteries and circuit board; and attach the sensor cover to the sensor base.

**Note:** When window or door construction does not allow the transmitter to be installed next to the magnet, use an external switch to install the Door/Window Sensor.

## Enrollment

Following these instructions to enroll the sensor to the control panel:

1. Enter installer menu and select Sensor Learning.
2. Select Wireless option.
3. Trip the sensor, such as open or close the door.
4. Once signal received by the control panel, follow instruction to select appropriate settings, such as door or window, for the sensor enrollment.

**Note:** Because of different models of control panels, it is necessary to refer to panel instruction manuals for correct and proper sensor enrollment.

## Maintenance/Replacing Batteries

The sensor is supervised by the control panel; users don't have to pay much time on routine maintenance unless they are informed to replace battery.

When battery replacement is necessary, observe proper polarity (as shown in the battery compartment) when installing the new battery, or the sensor may be damaged. When the battery is replaced, wait at least 3 minutes after installing the battery before activating the sensor test. See Figure 8 for battery location.

## Testing Door/Window Sensors

The following steps describe the guidelines for testing sensors:

1. Disarm the system
2. Open the door or window where the sensor locates.
3. Try arm the system.
4. If arming is failed, this sensor is in function.
5. Close the door or window and continue another sensor testing.

**Note:** Before test the sensor, make sure the sensor is not bypassed.

## Communication Improvement

Use the following guidelines if the system does not respond correctly when the sensor is activated.

- Check programming and re-program sensor into panel if necessary.
- Move the sensor to another location and test for correct response.
- Reposition the sensor

**To relocate a sensor:**

1. Test the detector a few inches from the original position.

2. Increase the distance from the original position and retest until an acceptable location is found.
3. Mount the sensor in the new location.
4. If no location is acceptable, replace the sensor.

**To reposition a sensor:**

1. Rotate the sensor and test for communication improvement at 90 and 180 degrees from the original position.
2. If poor communication persists, relocate the sensor as described as above.

**Suggestion:** To avoid redone work for communication problem, locate the sensor first and then enroll the sensor into the control panel to verify the communication path clear.

**FCC Notes**

ACES MODEL NO. DW-01 DOOR/WINDOW  
TRANSMITTER  
FCC ID TTG05DW-01

THIS DEVICE COMPLIES WITH PART 15 OF FCC  
RULES. OPERATION IS SUBJECT TO THE  
FOLLOWOING CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE  
HARMFUL INTERFERENCE AND
- (2) THIS DEVICE MUST ACCEPT ANY  
INTERFERENCE RECEIVED, INCLUDING  
INTERFERENCE THAT MAY CAUSE  
UNDESIREO OPERATION.

## **WARNING**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Notice:**

- (1) A Unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.
- (2) Use only shielded cables to connect I/O devices to this equipment.
- (3) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.