

MCT-370 SMA

Door / Window Sensor


Visonic

Installation Instructions

1. INTRODUCTION

The MCT-370 is a fully supervised, wireless magnetic door / window sensor, for use with ZigBee enabled home security panels. The sensor includes a built-in reed switch that opens upon removal of a magnet placed near it.

The MCT-370 tamper switch is activated when the cover is removed.

A periodic supervision message is transmitted automatically. The target receiver is thus informed, at regular intervals, of the unit's active participation in the system. Operating power is obtained from an on-board 3 V Lithium battery. When the battery voltage is low, a "low battery" message will be sent to the receiver 60 days before expiration of battery life (for operation in room temperature).

2. SPECIFICATIONS

WIRELESS

Supported Network: ZigBee H.A 1.2

Frequency: 2.4 GHz as per IEEE 802.15.4

Tamper Alert: Reported when a tamper event occurs and in any subsequent message, until the tamper switch is restored.

ELECTRICAL

Internal Battery: 3V Lithium battery, type CR2. Use Panasonic only.

Nominal Battery Capacity: 850 mAh

Battery Life Expectancy: 5 years (for typical use).

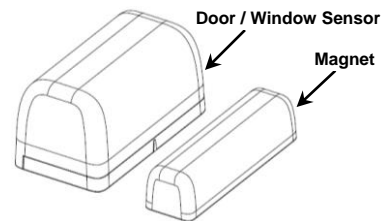


Figure 1 – External View

Note: Inability to connect with wireless network, or wireless link quality no higher than 20% may significantly reduce the expected battery life.

Battery Power Test: Performed immediately upon battery insertion and periodically every several hours.

Battery Supervision: Automatic transmission of battery condition data as part of any status report.

ENVIRONMENTAL

Operating Temperature: 0°C to 50°C (32°F to 122°F)

Humidity: 93% RH, non-condensing

Dimensions: 59.5 x 29 x 11 mm (2-11/32 x 1-9/64 x 7/16 in.)

Weight (including battery): 21.5g (0.8 oz)

3. ACTIVATING AND PAIRING THE SENSOR

To pair the sensor to the security panel, you must set it to pairing mode.

1. Set the panel to pairing mode.
2. To activate pairing mode on the sensor, pull the activation strip from the back of the sensor (Figure 2).
3. The LED blinks 3 times every 5 seconds (repeated for up to 20 times) to indicate that the sensor is searching for a security panel.
Note: : If the sensor pairing is not successful during the searching process, restart it by tripping the reed switch or tamper switch of the door window sensor.
4. Complete the pairing procedure on the security panel. (See the pairing instructions in the security panel installation guide.)

Note: Pairing should be done before installation.

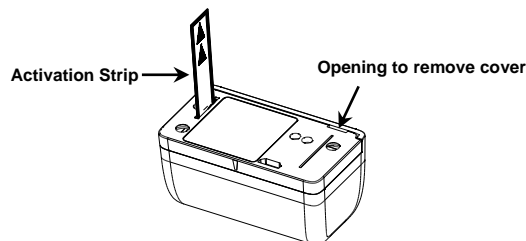


Figure 2 – Activation Strip

4. INSTALLATION AND SENSOR TESTING

CAUTION: This equipment shall be installed by Service Personnel in non-hazardous indoor locations only.

4.1 Mounting

NOTE: It is highly recommended to attach the door / window sensor to the top of the door / window on the fixed frame and the magnet to the movable part (door or window). Make sure that the magnet is located not more than 6 mm (0.25 in.) from the sensor's marked side.

The sensor should be mounted on the fixed surface and the magnet on the moving surface (see Figure 3b).

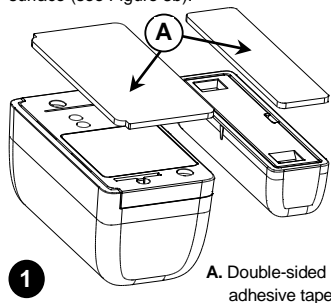


Fig. 3a – Attaching the Adhesive Tape

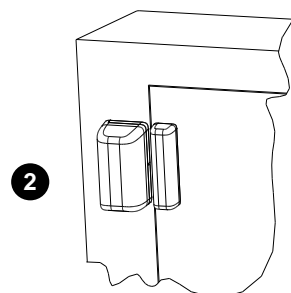


Fig. 3b – Mounting on Fixed Surface

1. Peel away the release liners from the two strips of double-sided adhesive tape and attach to the device and magnet (see Figure 3a).

OR

- Secure the device using the screws provided.
 - a. Remove the cover by inserting a screw driver in the opening and pulling up. (see Figure 2).
 - b. Attach the mounting plate to the sensor with the two screws provided.
 - c. Place the cover onto the unit with the mounting plate installed. Make sure the tabs clear the cover, and then slide the cover onto the mounting plate.
2. Align the device with the magnet according to the location marks and fasten the device and magnet to the mounting surface. The sensor should be mounted on the fixed surface and magnet on the moving surface (see Figure 3b).

4.2 Magnet Mounting

The magnet can be mounted with adhesive tape or screws. To mount the magnet with adhesive tape, it is optional to use one or two spacers (see Figure 4).

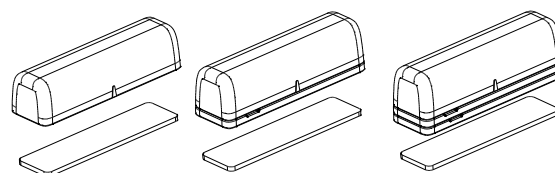


Fig. 4 – Magnet Mounting with Spacers

To mount the magnet with screws, always use one spacer (see Figure 5).

1. Fasten the spacer to the mounting surface with two screws.
2. Locate the magnet on the spacer at the correct direction and push it upward.

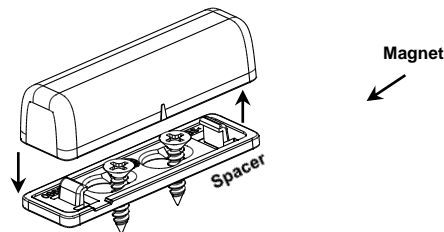


Fig. 5 – Magnet Mounting

4.2 Sensor Testing

1. Open and close the door or window and confirm the status is properly updated on the security panel.
2. Perform the signal strength testing procedure to make sure the device has a good signal. This procedure is described in the security panel installation manual.

5. BATTERY REPLACEMENT

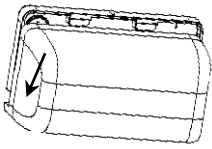


Fig. 4a – Opening Battery Cover

1. Press down on the battery cover and slide in the direction shown to open it

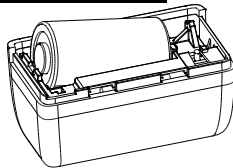


Fig. 4b – Replacing Battery

6. DEFAULTING THE SENSOR

CAUTION! The defaulting process removes the device from the network and enables re-pairing.

Open the battery cover and pull back the clip to remove the battery (see Figure 4).

7. TROUBLESHOOTING

If you encounter one of the following problems with the MCT-370, do the suggested remedy:

Problem	Remedy
Attempt to pair the sensor is unsuccessful.	Make sure that the sensor has been defaulted and is set to pairing mode (see section 7). Make sure the security panel supports the MCT-370.
The sensor and the panel do not communicate.	Perform the signal strength testing procedure described in the security panel installation manual. Make sure that the signal is sufficient. If necessary, replace the sensor's battery.

8. COMPLIANCE WITH STANDARDS

USA/CANADA

FCC USA: CFR 47 part 15, Canada: RSS 247.

This device complies with Part 15 of the FCC Rules and RSS-247 of Industry and Science Canada. 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 undesired operation.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC ID: WP3MCT370SMA5
IC: 1467C-MCT370SMA

Reed Switch Positions

Note: Dimensions in the following table are typical.

Wood		Supports	Iron	
Opening	Closing	Direction	Opening	Closing
15 mm	14 mm	X	13 mm	12 mm
29 mm	24 mm	Y	11 mm	8 mm
37 mm	31 mm	Z	11 mm	8 mm

9. PRODUCT LIMITATIONS

Visonic Ltd. wireless systems are very reliable and are tested to high standards. However, due to low transmitting power and limited range (required by FCC and other regulatory authorities), there are some limitations to be considered:

A. Receivers may be blocked by radio signals occurring on or near their operating frequencies, regardless of the digital code used.



W.E.E. Product Recycling Declaration

For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.
Directive 2002/96/EC Waste Electrical and Electronic Equipment.

This device complies with the essential requirements and provisions of Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio and telecommunications terminal equipment.



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RF Exposure Information

This equipment complies with FCC and Industry Canada radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC and IC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

Please refer to the separate Warranty statement

(see Figure 4a).

2. Lift the battery from the compartment.

3. Insert the new battery into the sensor while observing battery polarity (see Figure 4b).

4. Close the battery cover.

Note: The required battery is CR2 Lithium 3V, manufactured by Panasonic.

Caution! There is risk of explosion if battery is replaced by an incorrect type. Dispose of used battery according to the manufacturer's instructions.

1. Press and hold down the sensor's tamper switch (see Figure 4b).

2. Insert the battery into the sensor while observing battery polarity (see Figure 4b).

3. Release the tamper switch within 4 seconds. The LED will blink 3 times every 5 seconds to indicate successful default.

4. To re-pair the sensor, follow the instructions in section 3.

Problem	Remedy
The sensor sends a Low Battery indication.	To ensure continuous proper operation, replace the battery within two weeks of the first Low Battery indication (see section 5).
Panel does not arm because of an unrecognized sensor malfunction	Consult with your installer or system provider before you disable a zone. Disable the detector zone (see the security panel user manual). Note that disabling a sensor zone lowers the overall security level of your system.

USA/CANADA

Complies with:
ANSI/UL 634, ULC/ORD – C634

FCC Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

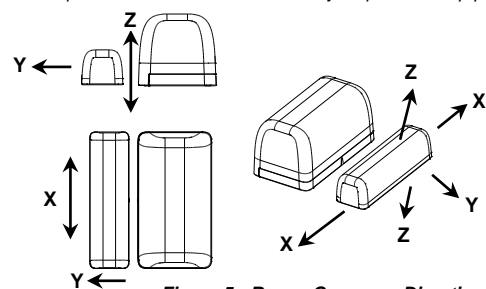


Figure 5 - Range Coverage Directions

B. A receiver responds only to one transmitted signal at a time.

C. Wireless devices should be tested regularly to determine whether there are sources of interference and to protect against faults.

The user is cautioned that changes or modifications to the unit, not expressly approved by Visonic Ltd., could void the user's FCC or other authority to operate the equipment.

