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 or Duracell Ultra only.
Nominal Battery Capacity: 850 mAh
Battery Life Expectancy: 5.5 years (for typical use, not yet verified by ETL).

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

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.

4. INSTALLATION AND SENSOR TESTING

CAUTION: This equipment shall be installed by Service Persons 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 13 mm (0.5 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).

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 #4 screws provided.

a. Remove the mounting plate by inserting a screw driver in the opening and pulling up. (see Figure 2).

b. Secure the mounting plate to the door or window frame with the screws provided. Ensure proper orientation of the magnet location mark.

c. Make sure the tabs clear the cover, and then slide the sensor 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).

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.
2. Lift the battery from the compartment.

6. DEFAULTING THE SENSOR

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

Open the battery cover to remove the battery (see Figure 6a).

7. TROUBLESHOOTING

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

<table>
<thead>
<tr>
<th>Problem</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attempt to pair the sensor is unsuccessful.</td>
<td>Make sure that the sensor has been defaulted and is set to pairing mode (see section 6). Make sure the security panel supports the MCT-370.</td>
</tr>
<tr>
<td>The sensor and the panel do not communicate.</td>
<td>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.</td>
</tr>
</tbody>
</table>

8. COMPLIANCE WITH STANDARDS

USA/CANADA


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.

IC: 1467C-MCT370SMA

FCC ID: WP3MCT370SMA

IC: 1467C-MCT370SMA

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.

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.

USA/Canada

Certified to CAN/CSA Std. UL634

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