

Mini Door Contact (MDC-8) User Manual

The Mini Door Contact monitors the opening/closing of specified devices (e.g. door or window). The Door Contact is fixed to the monitored door/window frame with an actuating magnet fixed to the door/window. When the door or window opens, the magnet moves away from the Door Contact, activating an internal magnetic switch causing the Door Contact to transmit alarm signal to the Control Panel.

The Mini Door Contact also has the capabilities of communicating signal problems along with low battery situations. The front and back tamper switches provide tamper protection against unauthorized cover opening and device removal.

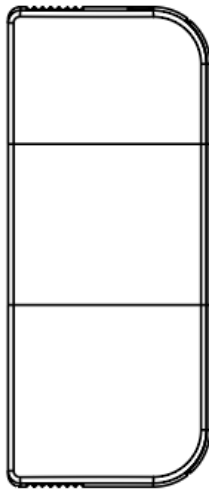
Parts Identification

Magnet



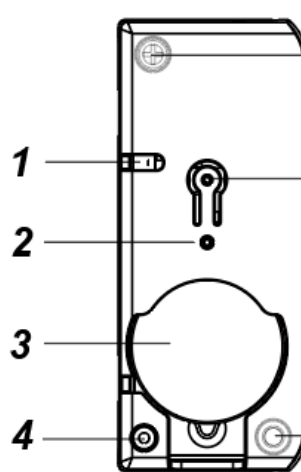
Door Contact

Front View

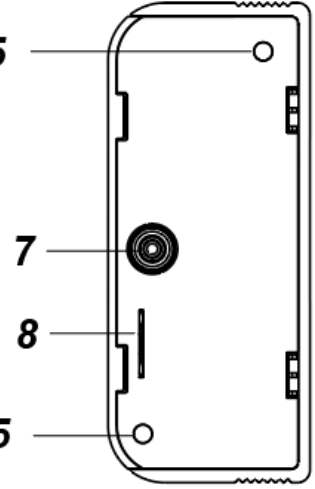


Internal View

(cover removed)



Back View



1 Front Tamper Switch

When the door contact's cover is removed, the front tamper switch will be activated.

2 Red LED Indicator

3 Battery Compartment

The device uses one **3V CR2450 Lithium battery** as its power source.

4 Optional Retaining Screw

The screw can be removed and then used for securing cover and the door contact. (See FIG. 1 below for details.)

5 Mounting Holes

6 Learn / Test Button

- Press and hold the Test button for 3 seconds to transmit a learn code.
- Press the Test button once to enter Test Mode for 3 minutes.

7 Back Tamper Switch

When the door contact is removed from the mounted surface, the back tamper switch will be activated.

8 Battery Insulator

● **Accessories Included**

- 1 Magnet
- 1 one-sided adhesive Magnet Spacer
- 2 Door Contact mounting screws
- 2 Magnet mounting screws
- 4 Wall Plugs
- 1 Retaining Screw (see **FIG. 1** below)

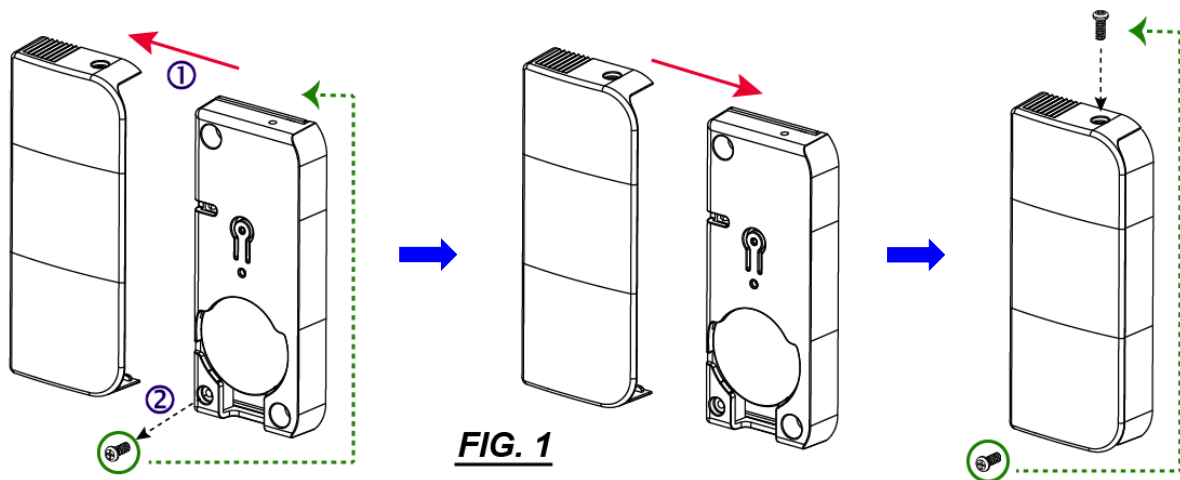


FIG. 1

Features

● **LED Indicator**

In Normal operation mode, the LED indicator remains off except in the following situations:

- When Door Contact's Tamper switch is triggered.
- When the Door Contact is activated with either Tamper or Low battery condition.
- When the Door Contact is activated and transmitting the signal under the Test mode.

If the LED flashes to indicate signal transmission, it will flash twice rapidly upon receiving acknowledgement from the Control Panel.

● **Supervision**

- The Door Contact will automatically transmit Supervisory signals periodically to the Control Panel at random intervals of 15 to 18 minutes in Normal Operation Mode.
- If the Control Panel has not received the signal from the Door Contact for a preset period of time, the Control Panel will indicate that particular Door Contact is experiencing an out-of-signal problem.

● **Tamper Switch**

- The Door Contact is protected against any attempt to open the device cover or to detach the device from its mounting surface.
- If the Door Contact detects a tamper condition of cover opening or device removal, a tamper signal will be sent to the Control Panel to remind the user of the condition.

● **Battery**

- MDC-8 uses one 3V CR2450 Lithium battery as its power source.
- The Door Contact's battery level will be reported to the Control Panel with regular Supervisory signals.
- When the battery is low, a low battery signal will be sent to the Control Panel to notify the user. The LED will light up when the Door Contact is activated under low battery status.

● **Changing the Battery**

Step 1. Remove the top retaining screw (**FIG. 2**). Slide the cover to the left to open it (**FIG. 3**).

Step 2. Once the cover is opened, remove the old battery and press the Learn / Test button 5-6 times to fully drain the residual energy.

Step 4. Insert a new battery with the positive side (+) facing up.

Step 5. Re-place the cover back by sliding it rightward (**FIG. 4**).

Step 6. Tighten the retaining screw to secure the cover and the door contact.

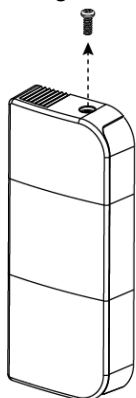


FIG. 2

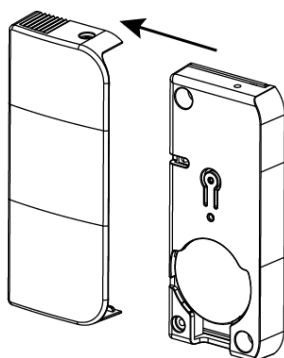


FIG. 3

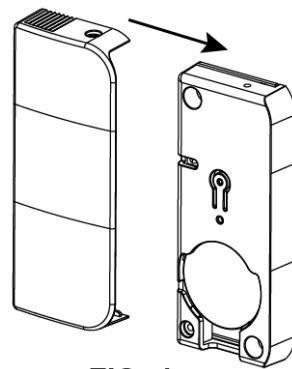


FIG. 4

● **Test Mode**

- The Door Contact can be put into Test mode for 3 minutes by pressing the Test Button once.
- Under Test Mode, the LED will light up whenever the Door Contact is activated.
- Each additional press of the Test Button will reset Test Mode time to another 3 minutes.

● **Getting Started**

Step 1: First, activate learning mode on the Control Panel.

Step 2: Remove the battery insulator located at the rear side of the Door Contact.

Step 3: Press and hold the Learn/Test Button for 3 seconds to send a learn code to the Control Panel.

Step 4: If the Control Panel successfully receives the code, the Panel should emit beeps accordingly. Refer to the Control Panel's manual to complete the learning process.

Step 5: After the Door Contact is learnt-in, put the Control Panel into "**Walk Test**" mode, hold the Door Contact at the desired location, and press the Test button once to confirm if this location is within signal range of the Control Panel.

Step 6: When you are satisfied with the chosen location, proceed to **Installation**.

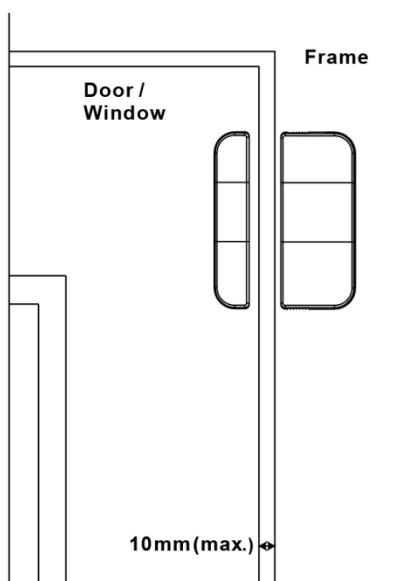
Installation

● **Installation Guideline**

- Mount the Door Contact on the fixed frame of door/window, and mount the magnet on the mobile object (door/window) using **Screw Mounting** or **Adhesive Mounting**.
- Align the magnet and the Door Contact.

<NOTE>

☞ The magnet should be no more than **10 mm** from the Door Contact when the door is closed.

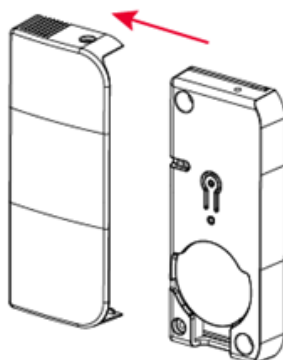


● **Mounting Methods**

Screw Mounting

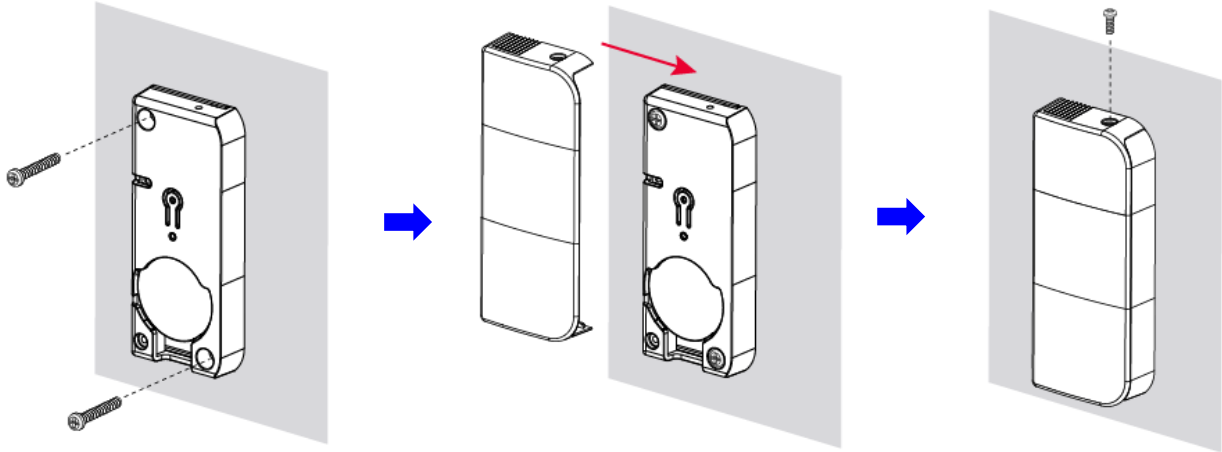
To mount the Door Contact:

- I. Slide the cover leftward to expose the mounting holes on the Door Contact.



- II. Use the mounting holes as a template and drill holes into the wall.

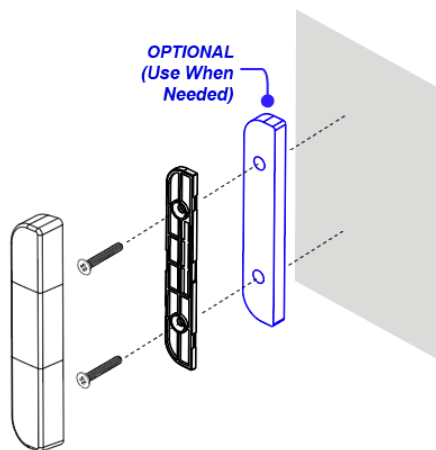
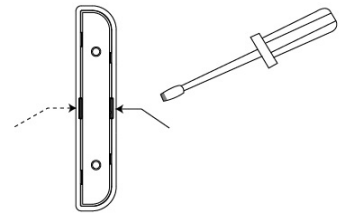
- III. Insert the wall plugs (optional) and screw the Door Contact onto the wall plug.
- IV. Re-place the cover back by sliding it rightward.
- V. Screw the retaining screw from the top of the device to firmly fix the cover to the Door Contact.



To mount the Magnet:

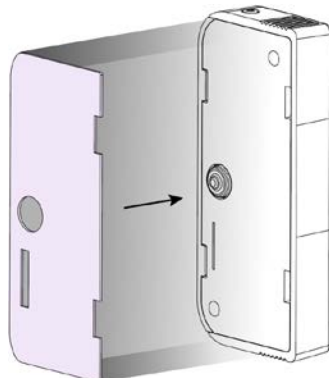
The back cover of the magnet has two mounting holes.

- I. Use a flat-head screwdriver to remove the back cover from the Magnet.
- II. Using the mounting holes as a template and drill holes into the wall.
- III. Insert the wall plugs and screw the back cover onto the wall plug. Where required, use the Magnet Spacer to align the magnet and Door Contact at the same height during installation.
- IV. Fit and push the magnet onto the back cover until you hear a click sound.



Double-sided Adhesive Tape Mounting

- I. **Cleaning the surface:** Clean the surface where the adhesive tape will be applied.
- II. **Applying Tape to Door Contact:**
 - ♦ Remove the yellow liner from the tape and apply the tape to the Door Contact.
 - ♦ Press the tape firmly against the Door Contact for 30 seconds to ensure good adhesion.



III. **Mounting the Door Contact:**

- ♦ Remove the red liner from the tape and apply the Door Contact to the door frame.
- ♦ Press the Door Contact firmly against the door frame for 30 seconds to ensure good adhesion.

IV. **Applying Tape to Magnet:** Repeat Steps I. to III. for the magnet.

V. **Completing Installation:** The installation is now complete.

Precautions for Applying Double-Sided Tape

Using double-sided tape involves certain risks, such as potential false alarms. If installation with double-sided tape is necessary, it is recommended to thoroughly understand its limitations and precautions or reconsider the installation site for alternative devices that can be mounted using screws.

- **Temperature Range:** *The ideal application temperature for the tape is between 21°C and 38°C. Initial tape application to surfaces at temperatures below 10°C is not recommended, as the adhesive may become too firm to adhere properly. Once correctly applied, the tape generally holds well at low temperatures.*
- **Surface Preparation:** *Ensure surfaces are clean, dry, and free of condensed moisture to achieve good adhesion.*
- **Shelf Life:** *The shelf life of the tape is 24 months from the date of production when stored at 16°C – 25°C and 40%-65% relative humidity. Use the tape before the end of its shelf life whenever possible.*
- **Magnetic Door Contact:** *For magnetic door contact installations, it is preferable to mount the main door contact on the non-movable door or window frame if possible.*

Declaration of Conformity

Complies with the requirements of the Radio Equipment Directive 2014/53/EU

Electromagnetic Compatibility Directive 2014/30/EU, Low Voltage Directive 2014/35/EU

Federal Communication Commission Interference Statement

This equipment 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 a residential installation.

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 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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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 undesired operation.