

# Climax Technology MDC-5 Mini Door Contact Access Control System Instruction Manual

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## MDC-5 Mini Door Contact Access Control System

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 and causing the Door Contact to transmit an alarm signal to the Control Panel.

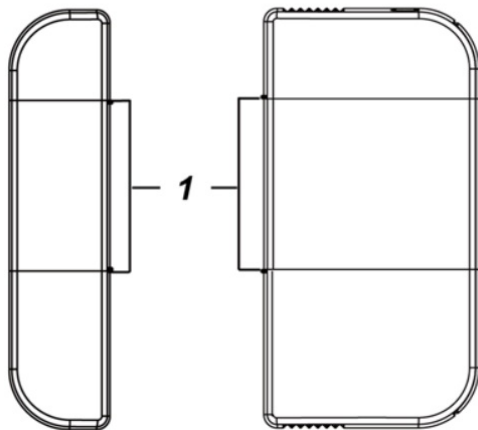
The Mini Door Contact also has the capability of communicating signal problems along with low battery situations. The front and back tamper switches provide tamper protection against unauthorized cover openings and device removal.

## Identifying the parts

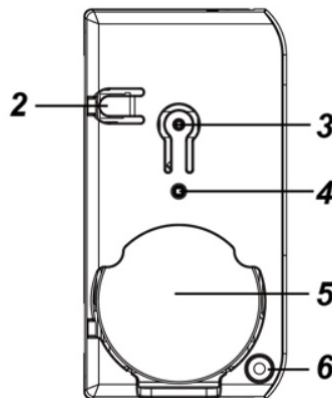
### Magnet

### Door Contact

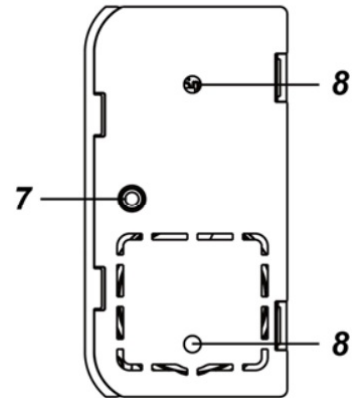
#### *Front View*



#### *Front View (cover removed)*



#### *Back View*



#### 1. **Rib Marks**

#### 2. **Front Tamper Switch**

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

#### 3. **Learn / Test Button**

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

#### 4. **Red LED Indicator**

#### 5. **Battery Compartment**

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

#### 6. **Optional Retaining Screw**

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

#### 7. **Back Tamper Switch**

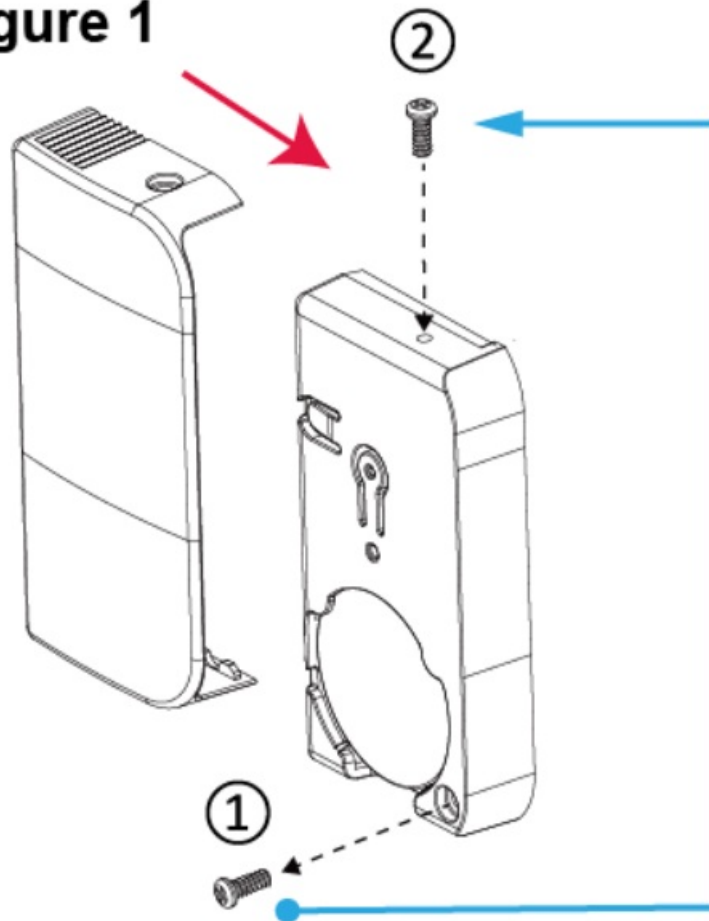
When the door contact is removed from the mounting surface, the back tamper switch will be activated.

#### 8. **Mounting Holes**

### **Accessories Included**

- a) 1 Magnet
- b) 1 one-sided adhesive Magnet Spacer
- c) 2 Door Contact mounting screws
- d) 1 double-sided adhesive tape (for Door Contact)
- e) 1 double-sided adhesive tape (for Magnet)
- f) 2 Magnet mounting screws
- g) 4 Wall Plugs
- h) 1 Door Contact retaining screw (See Figure 1)

## Figure 1



1. The door contact retaining screw is installed on the bottom-right corner of the door contact by the factory.
2. You can remove it from the door contact, and use it as a top retaining screw to secure the cover and the door contact.

## 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 the 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**

The MDC-5 uses one 3V CR2450 Lithium battery as its power source. The Door Contact is also capable of detecting low battery. When the battery is low, a low battery signal will be sent to the Control Panel along with regular transmission. The LED will light up when the Door Contact is activated under low battery status.

### **Installing / Changing the Battery**

Step 1. Slide the cover to the left to open it.

Step 2. Once the cover is opened, you can proceed to install/change the battery.

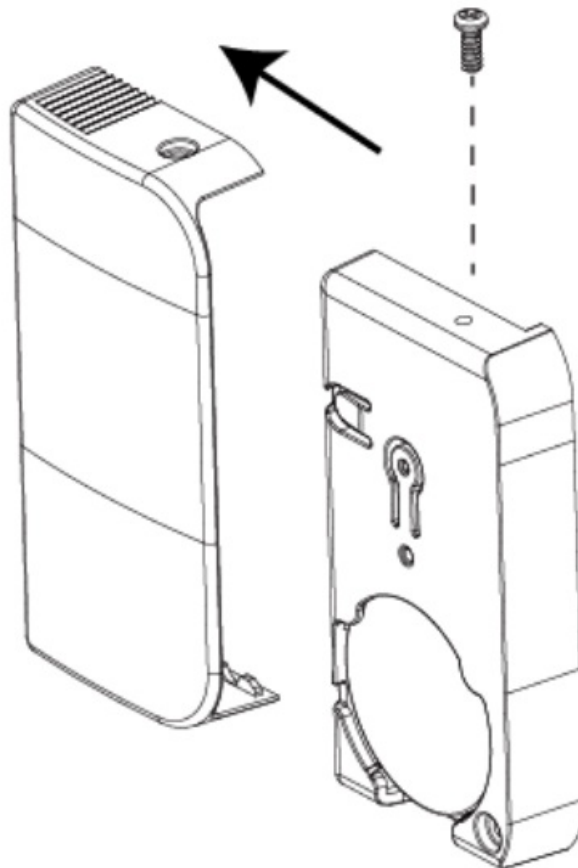
Step 3. For changing the battery, after the old battery has been removed, press the Learn / Test button 5-6 times to fully discharge

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

Step 5. Remove the door contact retaining screw that is installed on the bottom-right corner of the door contact (See Figure 1 above for details).

Step 6. Replace the cover:

Step 7. Use the retaining that was just removed to secure the cover and the door contact.



### **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 Test Button press will reset the Test Mode time to 3 minutes.

### **Getting Started**

Step 1: Open the cover and insert the battery.

Step 2: Put the Control Panel into learning mode, refer to the Control Panel manual for detail.

Step 3: Press the Learn/Test Button on Door Contact to send a signal to the Control Panel.

Step 4: If the Control Panel successfully receives the signal, the Control Panel should respond (e.g. emitting beeps). Refer to your Control Panel manual to complete the learning process.

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


Step 6: When you are satisfied with the Door Contact at the chosen location, proceed to installation.

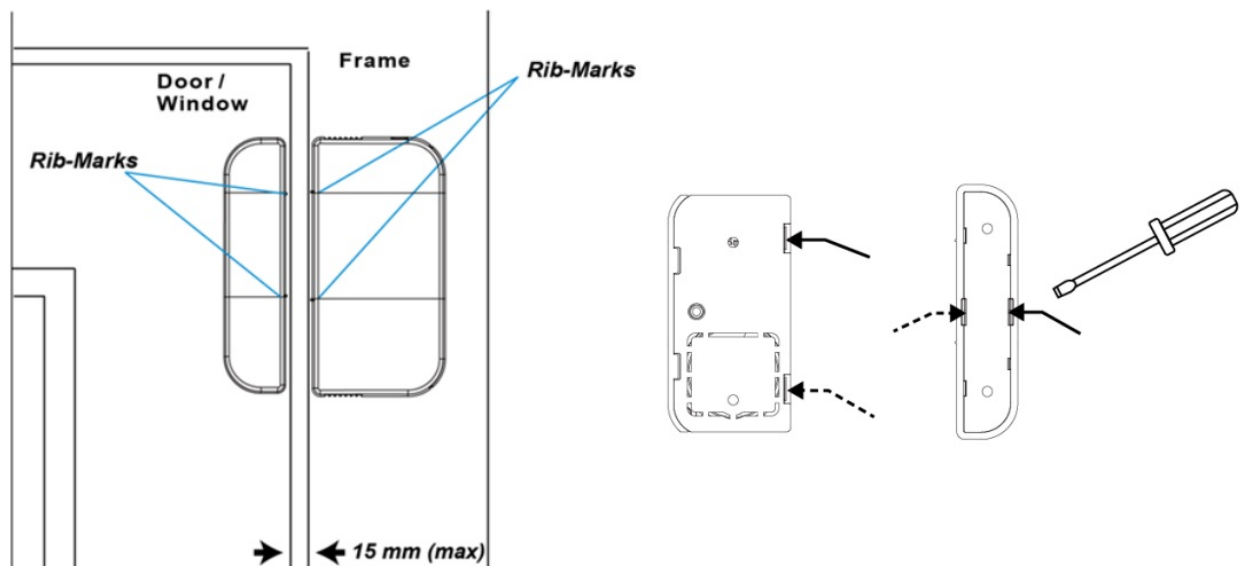
## Installation

### Installation Guideline

- Mount the Door Contact on the fixed frame of the door/window using Screw Mounting or Adhesive Mounting.
- Mount the magnet on the mobile object (door/window) using Screw Mounting or Adhesive Mounting.
- The rib marks on the Door Contact and the magnet must align. When required, use the Magnet Spacer to better align the magnet to the rib marks.

### < NOTE >

 The magnet should be no more than 15mm from the Door Contact when the door is closed.



### Mounting Methods

#### Screw Mounting

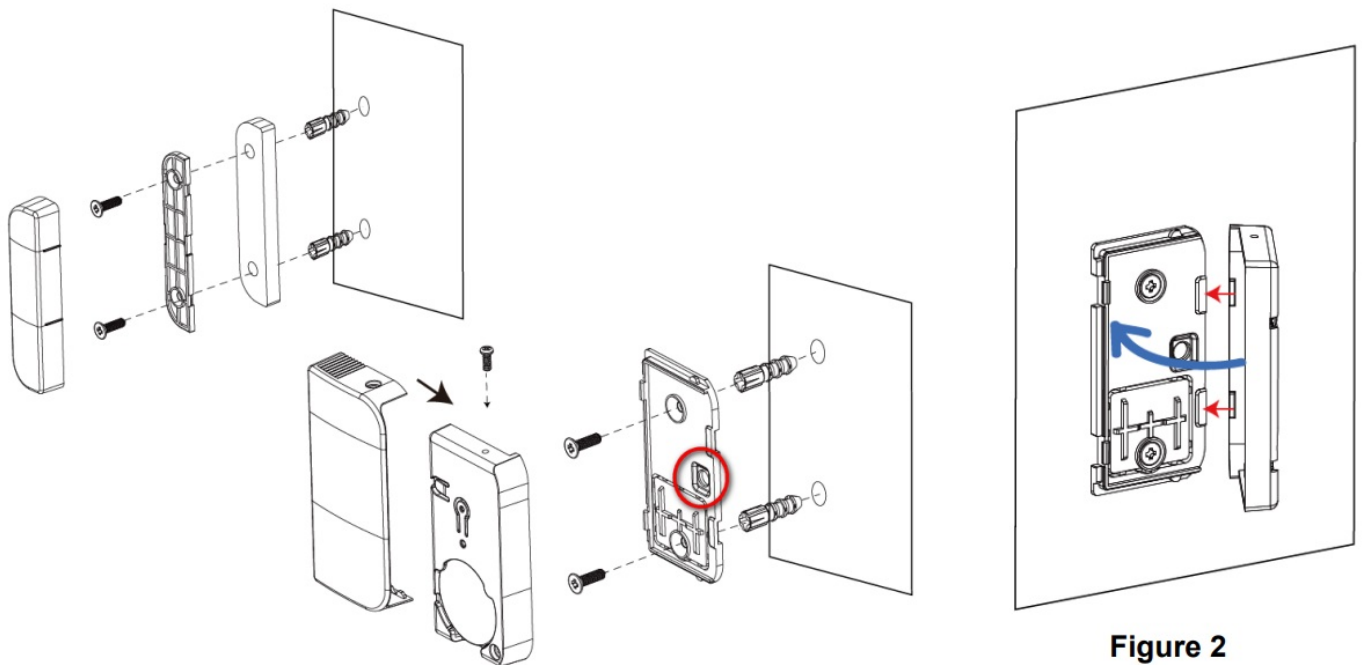
The back cover of the door contact and the back cover of the magnet each have two mounting holes.

To mount the Door Contact:

- I. Open the top cover, and use a flat-head screwdriver to remove the back cover of the door contact.
- II. Using the mounting holes as a template, drill holes in the wall for plugs.
- III. Insert wall plugs and screws the back cover into the wall plug using a Phillips screwdriver.
- IV. Attach the body of the door contact onto the back cover by fitting the right hooks of the body into the right latches of the back cover, then close it until you hear a clipping sound. Make sure the tamper switch is properly depressed against the tamper switch location. (See Figure 2 below).
- V. Replace the top cover by sliding it to the right. Tighten the retaining screw (See Figure 1 above for details).

To mount the Magnet:

- I. Use a flat-head screwdriver to remove the back cover of the Magnet.
- II. Using the mounting holes as a template, drill holes in the wall for plugs.
- III. Insert wall plugs and screws the back cover into the wall plug using a Phillips screwdriver. Where required, use the Magnet Spacer to better align the magnet to the rib marks.
- IV. Attach the magnet to the back cover with a click sound.



**Figure 2**

### **Adhesive Mounting**

The door contact and the magnet can also be mounted using the double-sided adhesive tape pad.

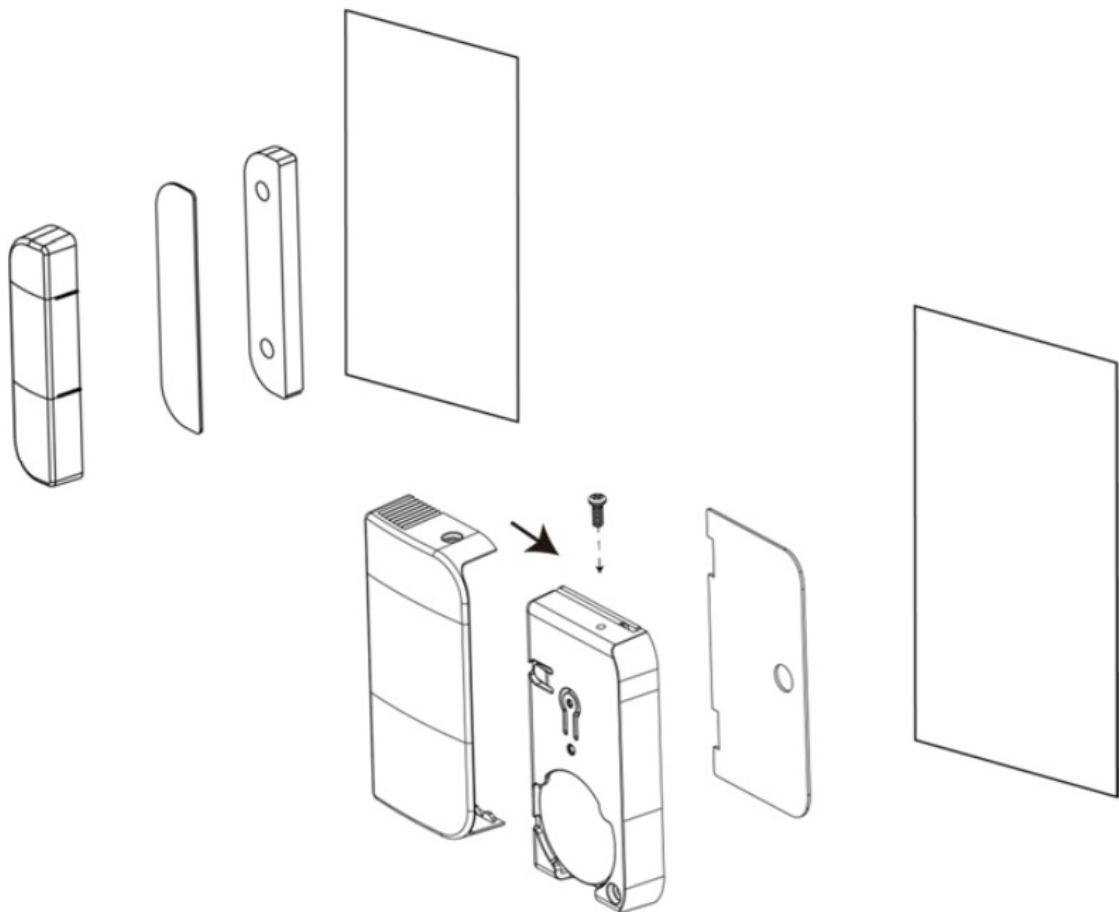
To mount the Door Contact:

- I. Open the top cover.
- II. Clean the mounting location and back of the Door Contact with a suitable degreaser.
- III. Remove the protective covering (Yellow side) of the double-sided adhesive pad. Apply to the back of the Door Contact and press firmly for 30 seconds to ensure good contact.
- IV. Remove the other protective covering (Red side) and firmly press the Door Contact onto the desired location for 30 seconds.
- V. Replace the top cover by sliding it to the right. Tighten the retaining screw. (See Figure 1 above for details)

### **To mount the Magnet:**

- I. Clean the mounting location and back of the Magnet with a suitable degreaser.
- II. Remove the protective covering (Yellow side) of the double-sided adhesive pad. Apply to the back of the Magnet and press firmly for 30 seconds to ensure good contact.
- III. Remove the other protective covering (Red side) and firmly press the Magnet onto the desired location for 30 seconds.

If using the Magnet Spacer, attach the magnet to the spacer, tear off the protective covering from the other side of the spacer, and then firmly press onto the desired location for 30 seconds



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.

#### **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 the receiver.
- Connect the equipment to 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.

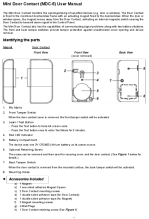
**FCC Caution:** To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example – use only shielded interface cables when connecting to computer or peripheral devices).

#### **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 0.5 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 0.5 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Documents / Resources

	<p><a href="#">Climax Technology MDC-5 Mini Door Contact Access Control System</a> [pdf] Instruction Manual</p> <p>MDC5F1919, GX9MDC5F1919, MDC-5 Mini Door Contact Access Control System, MDC-5, Mini Door Contact Access Control System, Mini Door Access Control, Door Access Control, Access Control System, Door Access Control System</p>
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