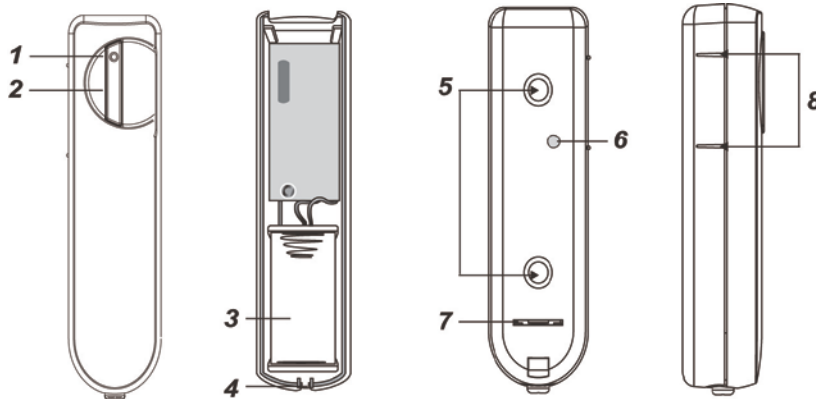


Door Contact (DC-16SL) User Manual

The Door Contact monitors the opening/closing of specified devices (e.g. door or window). The Door Contact is fixed to the monitored device frame with an actuating magnet fixed to the device. 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 device also has the capabilities of communicating signal problems along with low battery situations.

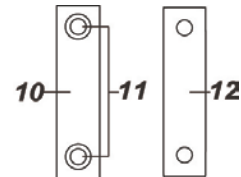
The Door Contact design is consisted of a cover and base. The cover contains all electronics and the base provides a means for fixing the device. An enclosed PCB tamper switch provides tamper protection against unauthorized device opening and/or removal.

● **Identifying the parts**



1. **LED Indicator**
2. **Learn / Test Button**
 - Press the Test button to transmit a learn code.
 - Press the Test button once to enter Test Mode for 3 minutes.
3. **Battery**
4. **Cover Securing Screw Hole**
5. **Knockouts**
6. **Tamper Switch**
7. **Battery Insulator hole**
8. **Rib Marks**
9. **Magnet**

- Mount the magnet on the side of the Door Contact where it has 2 rib-marks to indicate the position of the internal magnet switch.
10. **Magnet Screw hole**
 11. **Magnet Spacer**



● **Accessories Included**

- a) 1 Magnet
- b) 2 Screws
- c) 2 Wall Plugs
- d) 1 Magnet double-sided adhesive tape pad
- e) 2 Magnet mounting screws
- f) 2 Magnet spacers

● **LED Indicator**

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

- When the Door Contact's tamper switch is triggered.
- When the Door Contact is activated under Tamper or Low battery condition.
- When the Door Contact is activated under Test mode.

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

● **Supervision**

- If enabled, the Door Contact will automatically transmit Supervisory signals 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 time, the Control Panel will indicate that particular Door Contact is experiencing an out-of-signal problem.

● **Tamper Switch**

- It is designed to protect against unauthorized removal from mounted location, cover opening or unsteady installation. When the tamper is triggered, Door Contact will transmit a signal to the Control Panel to report tamper condition, and the LED will also light up.

● **Battery**

The Door Contact uses one **3V CR2 Lithium battery** as its power source. It 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. When battery is exhausted, the Door Contact will stop all function and the LED will flash every 4 seconds.

● **Changing Battery:**

After the battery has been removed, press the Learn / Test button 5-6 times to fully discharge before inserting the new battery.

<NOTE>



Due to the battery characteristic, after inserting a new battery in the Door Contact, it will self-check whether this battery is working properly or not within 16 minutes after the insertion.

● **Test Mode**

The Door Contact can be put into Test mode for 3 minutes by pressing the Test Button on the front cover once. During Test mode, the LED indicator will turn on upon triggering. Upon each press on the Test Button, the Door Contact will transmit a test signal to the Control Panel for radio range test and resets the test mode back to the 3-minute duration. It will exit Test Mode automatically after the 3 minutes and returns to Normal Operation mode.

● **Getting Started**

Step 1: Pull out the battery Insulator steadily

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

Step 3: Press the Test Button on the Door Contact to send 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 learnt-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 with installation.

● **Installation**

1. Mount the magnet on the mobile object (such as door) using either the smaller double-sided adhesive pad or the screws provided.
2. Align the magnet according the rib mark on Door Contact.
3. If required, use the Magnet Spacer to better align the magnet to the rib marks.

<NOTE>



The magnet should not be more than 15mm from the detector when the door is closed.

● **Mounting Methods**

There are two ways to mount the Door Contact: Self-adhesive mounting or Screw mounting.

● **Self-adhesive Mounting**

- I. Clean the surface with a suitable degreaser.
- II. Depending on the mounting side, remove the protective covering from one side of the double-sided adhesive pad and firmly apply to the back of the device.
- III. Remove the other cover and firmly press the Door Contact onto the desired location.

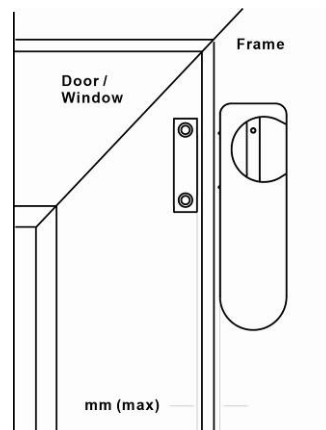
<NOTE>



Do not use the adhesive pad method of installation on a surface with peeling or cracked paint, or on a rough surface.



Please install the Door Contact on the stationary object (such as door frame or window frame) and mount the magnet on the mobile object (such as door or window).

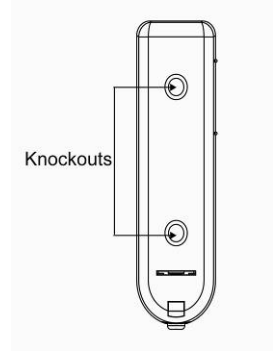


- **Screw Mounting**

The Base has two knockouts, where the plastic is thinner, for mounting purpose.

To mount the Door Contact:

- I. Remove the cover by unscrewing the Cover Securing Screw using a Philips screwdriver.
- II. Break through the knockouts on the base.
- III. Using the holes as a template. Drill both holes.
- IV. Insert wall plugs if fixing into plaster or brick.
- V. Screw the base into the wall plug using a Philips screwdriver.
- VI. Attach the cover to the base and tighten the Cover Securing Screw.



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.