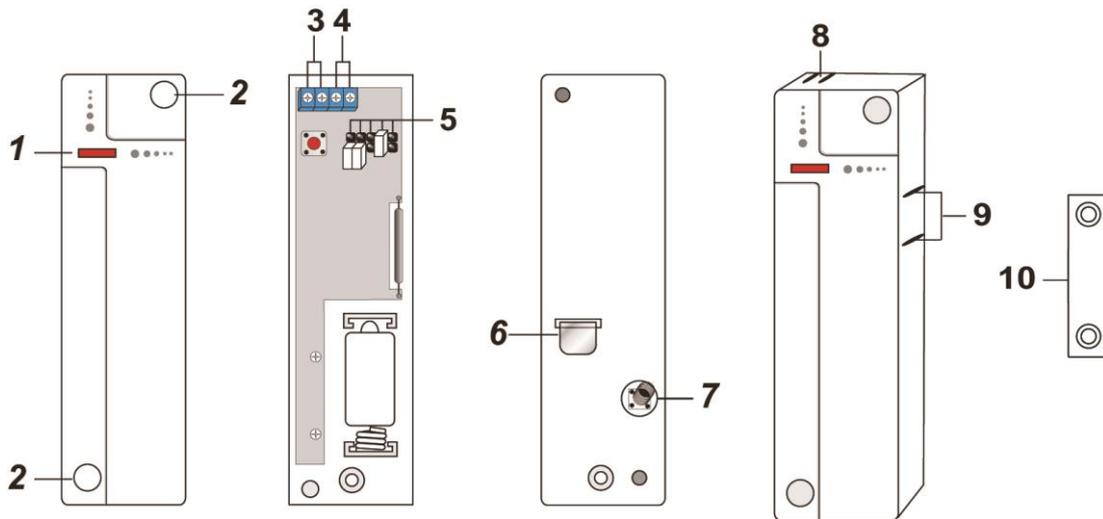# Door/Window and Shutter Detector with Wire Input (DC-S3)

Parts Description

1. LED indicator & Learn/Test Button

Press the button to transmit a learn/test code and enter Test mode for 3 minutes. The LED will light up whenever the Detector is activated under Test mode.

2. Mounting Holes (Covered by White Caps)

3. Wire Input Terminial 1

Connect the terminal to any Normal Close (N.C) device

4. Wire Input Terminial 2

Connect the terminal to Roller Shutter

5. Jumper Switches

For Jumper Switch functions, refer to later section "**Jumper Switch Setting**".

6. Battery Insulator

7. Tamper Switch

8. Knockout for Extension Terminals

9. Rib-Mark

10. Magnet

Package Content

1 x Door Contact

2 x wall plugs and screws

1 x adhesive pads

1 x 3V lithium battery (pre-installed)

Learning

Put the Control Panel into learning mode, then press the learn button to transmit learn code. Please refer to Control Panel manual to complete learn in process.

Installation

The Detector can be used either as a door/ window sensor or transmitter for shutter or wired device, or all at the same time. Choose the mounting location according to the Door Contact's usage.

- **As a Door/window sensor:** mount the main body on the door/window frame, and the magnet on the door/window. Mount as high as possible.
- **As a transmitter for shutter or wired device:** mount close to the device accordingly.

- Do not mount on metallic surface.
1. Remove the white caps covering the 2 mounting holes.
2. Drill holes into the mounting location using the holes as template.
3. Screw the sensor onto the wall or door/window frame with the screws and plugs provided.

As a Door/ Window Sensor

4. Align the magnet with the Rib Mark on main body; screw the magnet onto the door/window or apply with double-side adhesive tape. The gap between the body and the magnet should be **no more than 15 mm**.
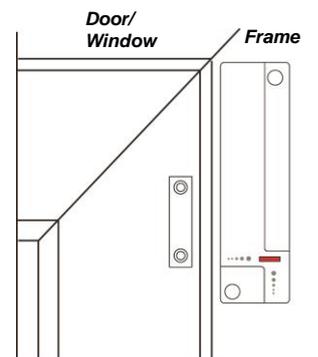
As a Transmitter

5. Break through the knockout at top of the cover
6. **For general wired device:** connect the wire from device to Wire Input Terminal **1**. Multiple wired devices can be connected to single Door Contact as long as the devices form a closed loop with the Detector (**Figure A**)
7. **For roller shutter:** connect the wire from roller shutter to Wire Input Terminal 2. (**Figure B**)

Figure A   *Figure B*
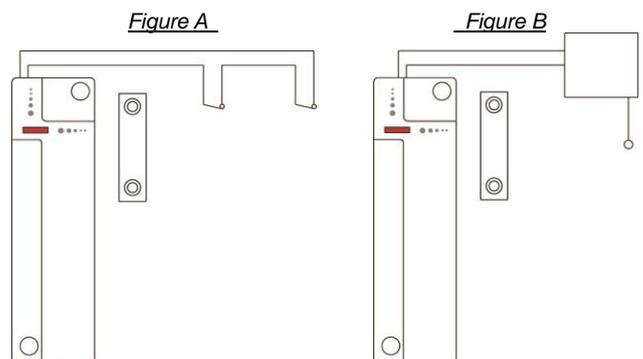
8. Replace the white caps.

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Operation

Activation

After installation, the Detector will be activated under the following conditions:

1. When the door is opened and magnet moves away from the main body, the Reed Switch within the Detector will be activated.

2. When the Normal Close (N.C.) device connected to Wire Input Terminal **1** is activated (opened).

3. When the pull cord of the roller shutter connected to Wire Input Terminal **2** is pulled down or retracted for set distance.

   Please refer to Jumper Switch Setting section below for setting roller shutter cord activation distance.

Tamper Switch

The Tamper Switch will be compressed against the mounting surface when the Detector is properly installed. The tamper switch will be activated when the Detector is removed from the mounting location, or when its cover is removed. When the tamper switch is triggered, the Detector will send a signal to the Control Panel to notify the situation.

Test Mode

Press the Test Button to enter Test mode for 3 minutes. Under Test mode, the LED indicator will light up every time the Detector is activated.

LED Indicator

Off	Normal Operation
On (2 seconds)	- When Tamper Switch is triggered
	- The Detector is activated (door opened / wired device triggered / roller shutter activated) under low battery, tamper triggered, or Test mode.

Battery

The Detector uses one 3.6V 1/2AA lithium battery as its power source. It also features low battery detection function to notify the Control Panel when battery voltage is low.

When the Detector is on low battery, follow the procedure below to change the batteries.

1. Remove the Detector from mounting location, open the cover.

2. Remove the old battery.

3. Press the learn button several times to fully discharge.

4. Insert the new batteries observing correct polarity.

5. Replace the cover and re-install the Detector at mounting location.

Jumper Switch Setting

The jumper switches provides setting option for Door Contact functions. Each jumper switch has 2 pins; the jumper setting is determined by how the jumper is installed on the pins.

Jumper On The jumper link is inserted connecting the two pins	**Jumper Off** if the jumper link is removed or parked on one pin.

The Door Contact has 5 jumper switches, marked JP1, JP3, JP5, JP6, JP8 on the PCB board from left to right.
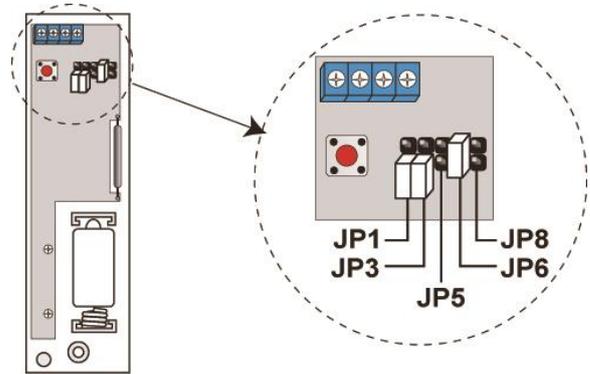
JP1 – Test Mode

This jumper is used to put the Door Contact into permanent Test Mode.

ON: The Door Contact is set to Test Mode permanently. You do not need to press the Learn/Test button to enter Test Mode

OFF: The Door Contact is set to Normal Mode. You can still press the Learn/Test button to enter Test Mode temporarily for 3 minutes. **(Factory Default)**

JP3 – Reed Switch

This jumper is used to enable or disabled the Door Contact's Reed Switch.

ON: The Reed Switch is Disabled. The Door Contact can only be activated by the Wire Input Terminals

OFF: The Reed Switch is Enabled. The Door Contact can be activated by both Reed Switch and Wire Input Terminals. **(Factory Default)**

JP5, JP6, JP8 – Roller Shutter Pull Cord Activation Distance

This jumper is used to set the distance the pull cord on the roller shutter needs to travel before the Door Contact is activated. The distance is measured by the number of pulse signal sent to Wire Input Terminal 2 when the pull cord is pulled or retracted. *Only one* of the 3 jumpers can be turned on at a time.

JP5 ON: The Door Contact will be activated after detecting 5 pulses from roller shutter within 10 seconds.

JP6 ON: The Door Contact will be activated after detecting 6 pulses from roller shutter within 10 seconds. **(Factory Default)**

JP8 ON: The Door Contact will be activated after detecting 8 pulses from roller shutter within 10 seconds.

Specification

Environmental Condition

-10°C to 40°C, relative humidity 85% non-condensing.

Radio

868 MHz FM

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