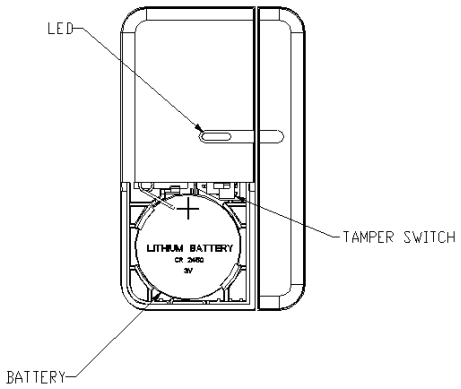
Mini Door/Window Contact Detector (HSM01)

Installation and Operating Instructions

These instructions should be read in conjunction with your System Installation and Operating Manual and be retained for future reference.

The Door/Window contact detector is compatible with a series of Everspring control panels – SC801, SC811, SC821, or IP Gateway HSC04….,operating at 868 MHz or 923 MHz only.



The Door/Window contact detector consists of two parts; a Detector and a Magnet. They are designed to be fitted to doors or windows with the Magnet mounted on the opening part and the Detector mounted on the fixed frame. Opening the protected door/window will remove the magnetic field, trigger the Detector and generate an alarm condition, (if the system is armed).

The Detector is powered by 1 pieces of 3V CR2450 battery which under normal conditions will have typical life in excess of 3 years. Under normal battery conditions with tamper switch being pressed, the LED on the Detector will not illuminate when the Detector is triggered. However, under low battery conditions this LED will be illuminated when the detector is triggered. When this occurs the battery should be replaced as soon as possible.

CHOOSING A MOUNTING LOCATION

The Door/Window Contact is suitable for mounting in dry interior locations only.

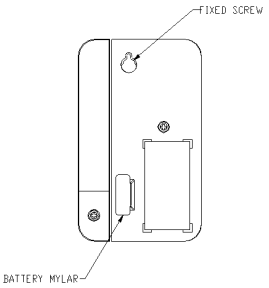
Decide which doors/windows are to be protected by Door/Window Contact, (usually the front and back doors as a minimum will have Door/Window Contact fitted). Additional detectors may also be fitted where required to other vulnerable doors or windows, (e.g. garage, patio/conservatory doors etc).

Note: Take care when fixing the Detector to a metal frame, or mounting within 1m of metalwork (i.e. radiators, water pipes, etc) as this could affect the radio range of the device. If required, it may be necessary to space the magnet and detector away from the metal surface using a plastic or wooden spacer to achieve the necessary radio range.

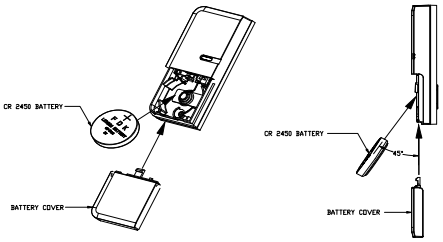
INSTALLING THE DOOR/WINDOW CONTACTS

Ensure that the system properly powered.

Factory default built in a CR2450 battery inside the detector and uses a Mylar film to isolate battery from electric circuit of the detector. Remove the battery Mylar film when ready to let the detector work.



If there is no battery inside the detector or need to replace a new battery please insert the battery in 45° angle as below figure



FIX AND TEST THE DOOR/WINDOW CONTACTS

1. Using the adhesive tape to fit detector on the door or window.
2. Fit the Magnet to the moving part of the door/window opposite the Detector using the adhesive tape.
3. Ensure that the parallel gap between the Magnet and Detector is less than 20mm and that the matching line on the Magnet is pointing towards and aligned with the line on the Detector. An alarm

condition will be occurred if the gap is greater than 35mm.

4. Remove the battery cover with the tamper switch not being pressed on the Detector (test mode), detach or close the magnet from the Detector, the LED on the Detector will illuminate.
5. After proper installation and test, put the battery cover back to the detector and the Detector enters the normal mode.

Learning ID code

In order to communicate with the control panel, the Detector and control panel need to be learned its ID code with each other. By pressing the tamper switch, located on the PCB of the Detector, more than 3 seconds will emit the ID code to the control panel instantly, subject to the control panel being set at the ID code learning mode.

To emit the ID code to the control panel, proceed with the following steps in sequence:

a. Press the learning key located on the PCB more than 3 seconds until the LED of the Detector flashes. It implies that the Detector enters ID code learning mode.
b. A 30-second countdown will start. If the ID code has been learned within 30 seconds by the control panel successfully, the LED of the Detector will be on shortly. If failure, the LED of the Detector will flash three times rapidly.
c. If next ID code needs to be learned, start from step a accordingly.

Clearing ID code

a. Press the tamper switch located on the PCB more than 3 seconds until the LED of the Detector flashes. It implies that the Detector enters ID code learning mode.
b. Press the learning key again more than 6 seconds and release before 10 seconds. The LED of the Detector will be on. The ID code learned from the Control Panel has been cleared.

TESTING THE DOOR/WINDOW CONTACTS

Ensure the system is in test mode.

1. With the tamper switch not being pressed, the Detector enters the test mode.
2. Open the door/window to detach the magnet from the Detector. As the magnet is parted from the detector, the LED will illuminate for approx. 1 second to indicate that the Detector has been triggered.
3. If connected, operate the wired Magnetic Contact. As the contact is opened the LED on the Detector should illuminate for 1 second to indicate that it has been triggered.
4. When the tamper switch is pressed, the Detector enters the normal mode.
5. It is recommended that the operation of the detector is also tested with the alarm in normal operating mode to ensure that the Detector will successfully trigger a Full Alarm condition.

Refer to your System Installation and Operating Manual for further details on operating and testing the system.

SPECIFICATIONS

RF	Frequency Distance	923(Taiwan USA)/868 (EU) MHz 150M @condition 1
Mechanical	weight Dimension (W x H x D)	23.6 g (without battery) 31x70x11.5 mm
Battery	CR2450 Battery life	620mAh 3 years @condition 2
Environment	Operation Temperature Humidity	-10 ~ 40° C 85%RH max
Hardware	Magnetic gap(Open→Close) Magnetic gap(Close→Open)	20 mm 35 mm

Condition 1. Send trigger signal to U-Net Controller like HSE01 or HSC04 in any direction at open space

Condition 2 . At normal connect situation and trigger 10 times per day

specifications are subject to change without prior notice.

FCCID: ZGXHSM01

Warning:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Class B:

FEDERAL COMMUNICATIONS 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 or more 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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.