



# ClareOne Door Window Sensor with Shock Installation Sheet



Last modified: 05/28/20

Model number: CLR-C1-DWSHK

## Description

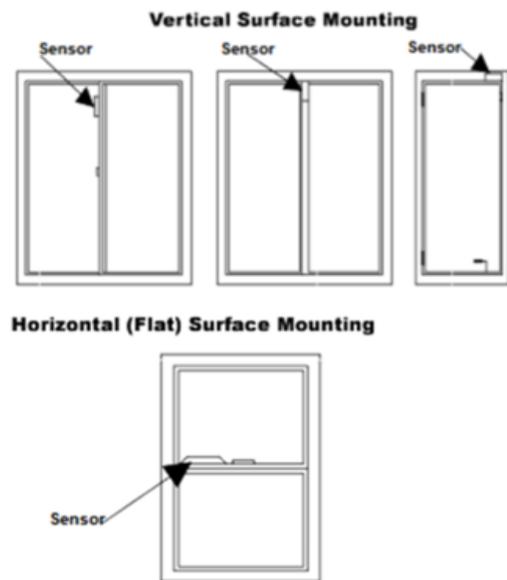
The CLR-C1-DWSHK is a wireless window sensor designed for dual protection; open/close and to detect vibrations made by an intruder attempting to break a window. The sensor contains a piezo detection device that detects vibrations when mounted on a window frame. The detection circuit can be adjusted for sensitivity during installation to ensure maximum coverage. The device also has a built-in reed switch to monitor the open and close of the door or window. When activated, the sensor transmits a signal to the control panel. These are the signals the unit provides: supervisory, tamper, and low battery (as needed). The sensor is powered by (2) replaceable 3-VDC, lithium coin-cell batteries.

## Installation

When installing the door window shock sensor, follow the below guidelines.

- Mounting the sensor on metal can affect the transmitting range performance. Therefore, test the sensor from the desired location using the installer sensor test, before permanently mounting it.
- Mount the sensor on the frame of the door or window.
- Mount to either wood or metallic surfaces.
- After mounting the sensor, test the sensor using the procedure in the section "Testing the Sensor".

Figure 1: Door window sensor placement



## Mounting the sensor

Mount the sensor using the supplied mounting screws for permanent mounting installations or using the supplied double-sided tape is optional.

**Note:** The gap between the sensor and magnet should not exceed .38 in (9.65 mm).

## Mounting screws

1. Remove the sensor base from the sensor.
2. Place the sensor base in desired location and mount the base with the supplied screws.
3. Reattach the base to the sensor.
4. Mount the magnet into the desired location using the supplied screws, making sure the alignment mark lines up with the sensor mark.

### Shock test mode

- Test mode is entered automatically when the cover is removed. The LED activates on shock activation and goes out upon shock restoral.
- LED is functional only in test mode.
- Test mode is active as long as the cover is removed.

### Shock sensor sensitivity setting

An LED test mode (see above) is included to aide in setting sensitivity to desired level

1. Mount sensor in intended location and tap mounting surface with desired level of activation impact
2. Adjust potentiometer until correct sensitivity is obtained

The potentiometer adjusts shock sensitivity from minimum "Low" (CCW) to maximum "Hi" (CW). These setting are marked on the PCB.



In maximum sensitivity mode, the least amount of shock is required to activate a shock alarm. If the potentiometer is set all the way Low (CCW) the shock portion of the device is turned off and only the internal reed switch is active

## Programming

To add the sensor to your panel and for detailed programming instructions, use the steps below and refer to the [ClareOne Wireless Security and Smart Home Panel User Manual \(DOC ID 1871\)](#).

**Note:** The Door Window Sensor with Shock has a 2-part addition process. You must add the door window sensor and the shock sensor to the ClareOne panel.

#### To add the door window sensor:

1. Put the ClareOne panel in "add mode" and follow the displayed instructions for adding the sensor.
2. Remove the battery tabs, and then trip the sensor using magnet or enter the ID number.
3. Enter sensor information.

**Note:** Loop locations:

**Shock** – Loop 1

**Reed Switch** – Loop 2

**Tamper** – Loop 4

4. Exit "add mode."

#### To add the shock sensor:

1. Open the sensor body, and then locate the tamper switch.
2. Put the ClareOne panel in "add mode," and then depress the tamper switch.

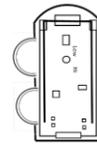
## Testing and adjusting the sensor

Take the sensor and magnet to the desired mounting location, making sure to line up the magnet alignment marks with each other. Trip the sensor by pulling the magnet away from the sensor. Monitor the system after tripping the sensor.

## Battery replacement

**Note:** If a low battery alarm occurs, replace the battery within 7 days.

- The low battery detected LED flashes until the battery is replaced. The sensor sends a low battery signal to the ClareOne panel.
  - The CLR-C1-DWSHK requires (2) 3-VDC, lithium coin-cell batteries (Varta or Panasonic, Model CR2032). Both batteries should be replaced at the same time.
1. Remove the sensor cover by pressing on the latch and pulling the cover off.
  2. Do not remove the circuit board, slide the old batteries out as shown.
  3. Slide the batteries out from under the circuit board and note the polarity.



4. Insert new batteries, noting the polarity.
5. Replace sensor cover.

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**CAUTION:** Battery may explode if mistreated. Do not recharge, disassemble, or dispose of in fire.

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## Specifications

Compatible panel	ClareOne (CLR-C1-PNL1)
Transmitted frequency	433MHz
Encrypted	Yes
Operating gap	0.38 in (9.96 mm)
Transmitted indications	Tamper and low battery
Supervisory keep-alive	60 to 70 minutes
Shock sensitivity adjust	Yes
Battery type	(2x) CR2032
Battery life	8 to 10 years
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	95% non-condensing
Dimensions (W x H x D)	2.25 x 1.0 x 0.50 in. (57.15 x 25.4 x 12.7 mm)
Water resistant	No
Certifications	FCC: 15.109 Class B 15.231, Industry Canada: ICES-003, RSS-210

## Regulatory information

Manufacturer	Clare Controls, LLC. 7519 Pennsylvania Ave, Suite 104 Sarasota, FL 34243
FCC compliance	<p>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.</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> <li>• Reorient or relocate the receiving antenna.</li> <li>• Increase the separation between the equipment and receiver.</li> <li>• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</li> <li>• Consult the dealer or an experienced radio/TV technician for help.</li> </ul> <p>This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.</p> <p>Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.</p> <p>In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.</p> <p>FCC: 2ABBZ-RF-SHK-433 IC: 11817A-RFSHK433</p> <p>This Class B digital apparatus complies with Canadian ICES-3B.</p> <p>Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.</p>

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Environmental class	UL: Indoor dry IEC: 3K5
EU compliance	
EN 54	EN 54-00:0000
European Union directives	<p>1999/5/EC (R&amp;TTE directive): Hereby, Clare Controls declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.</p> <p> 2002/96/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: <a href="http://www.recyclethis.info">www.recyclethis.info</a>.</p> <p> 2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: <a href="http://www.recyclethis.info">www.recyclethis.info</a>.</p>

## Warranty information

Clare Controls offers a two (2) year limited warranty on original Clare Controls components, from the date of shipment from Clare Controls.

## Contact information

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