



ClareOne Door Window Sensor with External Contact Installation Sheet



Last modified: 06/15/21

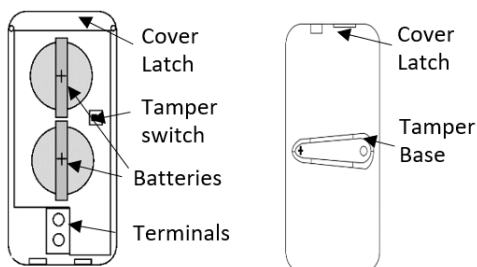
Model number: CLR-C1-DWCNT

Description

The Door/Window Sensor with Extended Contact is a supervised, wireless sensor that detects the opening and closing of doors/windows. The sensor and magnet are mounted using the included screws or double-sided adhesive tape.

When activated, the sensor transmits an open (trip) or close (restore) signal to the 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.

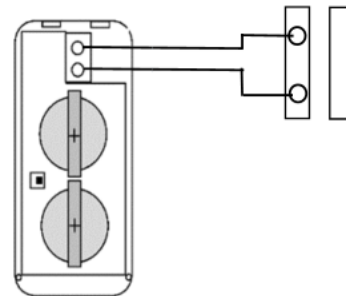
Figure 1: Sensor interior



External contact

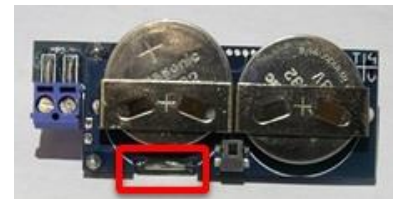
An external contact can be connected to the transmitter by feeding contact wiring through the housing.

Figure 2: External contact



Notes

- Do not exceed 50 ft when wiring to an external contact.
- Only one set of contacts can be used at one time: internal or external.
- For added security the internal reed switch can be cut.
- The **Takeover** setting, currently exposed on the ClareOne zone settings, must be enabled to use the external contact. It bypasses the reed magnet contact on the main sensor.
- The **Normally Open** setting is enabled when the external contact device is a normally open contact.



Installation

When installing the sensor abide by the following guidelines.

1. Remove the transmitter's cover by pressing in on the small rectangular latch on the end of the cover and lift up.
2. Mount the sensor base directly to the surface using the mounting tape provided. Make sure to align the mounting tape with the tamper pull put area on the bottom of the sensor to insure proper tamper operation.

3. Mount the magnet next to the sensor and align the magnet with the mark on the side of the sensor, using the mounting tape provided, or connect an external contact to the terminals.
4. Remove the battery isolator tabs from both batteries on the sensor.
5. Replace the cover on the transmitter.
6. Program the sensor, and then test it.

Programming

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

To add the sensor to the panel:

1. Put the ClareOne panel in “add mode” and follow the displayed instructions for adding the sensor.
2. Pull the magnet away from the sensor body.
– Or –
Open the sensor body case to tamper.
3. Exit “add mode”, and then adjust the sensors settings.

To configure the sensors to use external contact:

1. Access sensor’s settings in panel.
Settings > User/Installer Settings > Sensor Management
2. Scroll to view Takeover, and then set it to “**Yes**”.
3. Scroll to view Contact Normally, and then select the desired contact type (Closed/Open).

Modify the setting to reflect the proper configuration of the contact - If while the physical contact is in the normal (not faulted state) it shows faulted on the panel, toggle this setting to opposite of the current setting (If closed, toggle to open and vice versa).

Notes

- The Contact Normally setting can be adjusted either on the panel or in FusionPro.
- The sensor does not “learn” the faulted/not faulted condition of the contact and may need to be adjusted according to the condition reflected on the panel.

Testing the sensor

1. Set the panel to the sensor test mode. See the full ClareOne Panel manual.
2. Take the sensor and magnet to the desired mounting location, making sure to line up their alignment marks with each other. Trip the sensor by pulling the magnet away from the sensor, or by opening/closing the attached external contact.
3. Monitor the system after tripping the sensor.

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

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

Mounting the sensor

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

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

For additional tamper security

Punch out the tamper cover on the bottom of the sensor, and using the small screw secure it to the mounting location, when the sensor is removed “tampered” the tab remains providing a tamper condition.

Specifications

Compatible panel	ClareOne (CLR-C1-PNL1)
Transmitter frequency	433MHz
Encrypted	Yes
Operating gap	0.38 in (9.65 mm)
Transmitted indications	Tamper and low battery
Supervisory keep-alive	60 to 70 minutes
Switch type	Open loop (external contact)
Battery type	(2x) CR2032
Battery life	8 to 10 years
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	95% noncondensing
Sensor dimensions	2.75 × 1.00 × 0.50 in. (70 × 25.5 × 12.7 mm)
Magnet dimensions	1.5 × 0.5 × 0.44 in. (38.1 × 12.7 × 11.17 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"> • 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. <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-CMDWSX-433 IC: 11817A-CMDWSX433</p> <p>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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p> <p>This Class B digital apparatus complies with Canadian ICES-3B.</p>

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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Environmental class	UL: Indoor dry IEC: 3K5
EU compliance	
EN 54	EN 54-00:0000
European Union directives	1999/5/EC (R&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.
	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: www.recyclethis.info .
	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: www.recyclethis.info .

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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