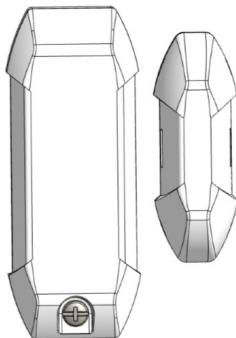


# RF-CMDWS-OD-319-NN Installation Instructions

## Description

The Outdoor Sensor is a supervised, wireless sensor that detects openings and closings. The unique design allows mounting the device outdoors. The sensor and magnet are mounted using screws (included) or straps to secure to a post.



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.

## Installation Guidelines

- Mounting the sensor on metal can affect the transmitting range and magnet gap performance. Therefore, test the sensor from the desired location using the installer sensor test, before permanently mounting it.
- Mount the sensor on a non-moving frame or post, allowing the magnet to move activating the sensor.
- Mount sensors at least 5 inches above the ground to avoid damaging them.
- The sensors can be mounted to either wood or metallic surfaces.
- The magnet should be mounted within 7/8" for wood or 1/2" for metal installations. Based on the magnet mounting spacing, direction of operation and material of the mounting surface, the gap for opening will vary between 1/8" and 1 3/4". Desired

operation should be checked before permanent installation.

- After mounting the sensor, re-test the sensor using the procedure in the section "Testing the Sensor."

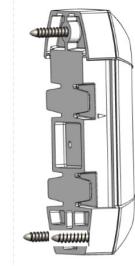
## Mounting the Sensor

Mount the sensor using the supplied mounting screws for permanent mounting installations.

**Note:** The gap between the sensor and magnet should not exceed a maximum of 3/8".

## Mounting Screws

1. Remove the cover screw from the sensor.

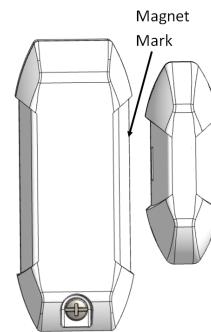


Mount the sensor with 3 mounting screws



Mount the magnet with 2 mounting screws

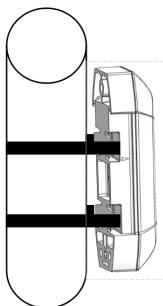
2. Mount the magnet into the desired location using the supplied, making sure the alignment mark lines up with the sensor mark.



## Using Mounting Straps

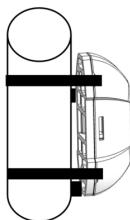
1. The sensor case is designed for strap mounting. Using a plastic tie strap wrap the strap around the mounting post and through the sensor.

# RF-CMDWS-OD-319-NN Installation Instructions



**Note:** Make sure straps are tight to prevent the sensor from sliding away from the magnet.

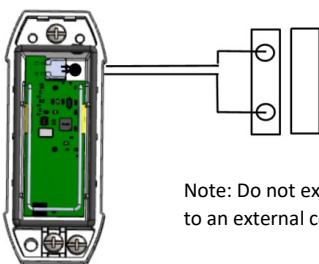
2. The magnet can also be strap mounted by running a strap through the slot in the magnet housing



**Note:** Make sure straps are tight to prevent the sensor from sliding away from the magnet.

## External Contact

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



**Note:** Do not exceed 50ft when wiring to an external contact

**Note:** Only one set of contacts can be used at one time the internal or external, for added security the internal reed switch can be cut.

## Programming

The following steps describe the general guidelines for programming the sensor into panel memory. Refer to the specific panel's documentation for complete programming details.

1. Set the panel to the program mode.
2. Proceed to the SENSORS menu.
3. Select the appropriate sensor group and sensor number assignments.
4. When prompted by the panel to trip the sensor for learning, remove the sensor cover and if present pull the battery pull tabs. The system should acknowledge learning the sensor by touchpad display and/or audio (depending on the panel).
5. Exit program mode.

## Testing the Sensor

1. Set the panel to the sensor test mode.
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.
3. Monitor the system after tripping the sensor. Refer to the specific panel documentation for interpretation of the results to ensure desired signal strength is achieved.

**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.

# RF-CMDWS-OD-319-NN Installation Instructions

## Specifications

Model no.	RF-CMDWS-OD-319-NN
RF frequency	319 MHz
Compatibility	UTC®, Interlogix®, GE®, ITI® and Qolsys® control panels
Battery type	(2) 3-VDC, lithium coin-cell battery (Varta or Panasonic, Model CR2032)
Battery	Varta CR2032 Panasonic CR2032
Operating temperature range	32 to 120°F (0 to 49°C)
Storage temperature range	-30 to 140°F (-34 to 60°C)
Relative humidity	95% non-condensing
Dimensions (L x W x D)	2.25 x 1.0 x 0.50 in.

## FCC / IC 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.

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.

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.

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.

**FCC: 2ABZ-RF-CMDWS-319**

**IC: 11817A-RFCMDWS319**

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.

This Class B digital apparatus complies with Canadian ICES-3B.

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

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