

# ELK-319DG All Weather Door & Gate Sensor



## Description

The ELK-319DG is a Supervised, Wireless Sensor uniquely designed for outdoor use on swing gates or doors. The sensor and magnet can be mounted using screws (included) or pipe strap style clamps or plastic wire ties.

When activated the sensor transmits an open (trip) or close (restore) signal to the panel. Additionally transmitted signals include: tamper, hourly supervisory, and low battery (as needed). The sensor is powered by two (2) replaceable 3VDC, lithium coin-cell batteries.

This sensor is compatible with ELK's 319MHz Receivers/Panels as well as many other panels that operate on the 319.5MHz Frequency and adhere to the ITI/Interlogix protocol.

## Specifications

RF frequency: 319.5 MHz

Compatibility: ELK-319 Receivers/Panels & other panels that operate on the 319.5MHz Freq. and adhere to the ITI/Interlogix protocol

Battery type: Two (2) 3VDC lithium coin-cell (Panasonic or Varta Model CR2032)

Operating Temp Range: -40 to 140°F (-40 to 60°C)

Storage Temp Range: -40 to 140°F (-40 to 60°C)

Relative Humidity: 95% non-condensing

Dimensions Sensor: 3.39" L x 1.34" W x 0.79" D  
Magnet: 3.0" L x 0.96" W x 0.8" D

## Programming (Enrollment)

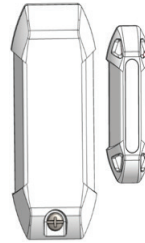
The following is a general guideline for programming (enrolling) a sensor into the receiver or panel. For more extensive instructions please refer to the receiver or panel instructions.

1. Place panel into the Program mode.
2. Proceed to the WIRELESS SETUP menu.
3. Select the appropriate zone/sensor location number.
4. When prompted by the panel to trip the sensor for learning:
  - Remove sensor cover and remove battery pull tabs to power up the sensor. Press and release the tamper plunger.
  - The panel should acknowledge the sensor has been learned by keypad display and/or audio alert (depending on the panel). If enrollment fails try pressing and releasing the tamper plunger a second time. In some cases it may be necessary to remove and reinstall the batteries.
5. Repeat the above process for any additional wireless sensors. Proceed to the zone programming to assign each sensor's zone definition.
6. Exit programming mode when finished.

## Installation Guidelines and Mounting

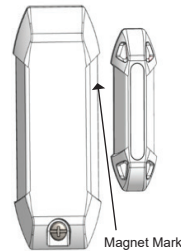
- Sensor should be temporarily attached at the desired location and successfully tested with the panel/receiver prior to drilling any holes or permanently mounting.
- Mounting this sensor on metal can negatively affect the transmitting range and magnet gap performance.
- Install the sensor within 100 ft. of the receiver or panel.

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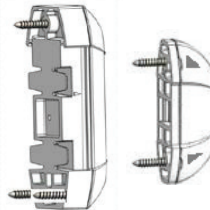
- Mount the sensor on the non-moving post or frame surface and the magnet on the actual moving gate or door. If one sensor is to be used for a double acting gate/door then mount the sensor on the least used gate/door.
- Mount at least 5 inches above the floor to avoid damage.
- Align the magnet directly across from the top right edge of the sensor.

**NOTE: The gap between the sensor and magnet should not exceed a maximum of 1".**



## Mounting with Screws

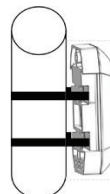
Remove the sensor cover. Use long screws (provided) to attach the sensor and the short screw (provided) to secure the cover.



Use long screws (provided) to attach the Magnet.

## Mounting with Pipe Straps or Plastic Ties

The Sensor and Magnet are also designed for mounting using adjustable straps or black plastic ties. (purchase separately)

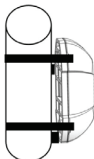


Use two (2) adjustable pipe straps or ties to mount the sensor as shown.

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

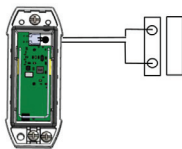
Use one (1) adjustable pipe strap or tie to mount the magnet.

**Note: Make sure strap is tight to prevent the magnet from sliding away from the sensor.**



### External Contact

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



**NOTE: Only one set of contacts can be used at a time; the internal or external. For added security the internal reed switch can be cut out.**

**Do not exceed 50' when wiring to an external contact.**

### Testing the Sensor

It is recommended that all wireless sensors be thoroughly walk tested after installation and programming.

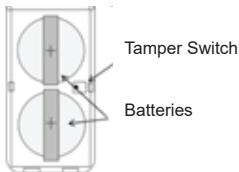
1. Place the panel into the Walk Test mode.
2. Monitor the keypad display as each sensor is tripped. Refer to the receiver or panel for complete instructions. In some cases there may be a signal strength indication.
3. Exit Walk Test mode when finished.

### Battery Replacement

Low Battery trouble will be transmitted when the sensor battery needs to be replaced.

**NOTE: Replace both (2) batteries within 7 days following a low battery trouble indication.**

- Remove the cover from the sensor.
- Carefully slide out the old batteries.



- Observe Polarity shown on the lithium coin-cell battery and slide two (2) new batteries into the holders with the positive "+" side facing UP away from the circuit board.

**CAUTION: Use only approved 3.0VDC Lithium Battery: Panasonic or Varta model CR2032**

- Replace the sensor cover and secure with the short screw (provided). Test activate the device at least five times.

### BATTERY WARNING:

**Risk of fire, explosion and burns. Do not attempt to recharge or disassemble. Do not incinerate or expose to heat above 212° F (100° C). Dispose of used batteries properly. Keep away from children.**

### FCC AND IC COMPLIANCE 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 ID: 2ABBZ-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.

### Limited Warranty

THIS WIRELESS SENSOR IS WARRANTED TO BE FREE FROM DEFECTS AND WORKMANSHIP FOR A PERIOD OF 2 YEARS FROM DATE OF MANUFACTURE EXCLUDING BATTERIES. BATTERIES USED WITH WIRELESS DEVICES ARE NOT WARRANTED.

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**NOTE: Elk Products is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.**