



2GIG-DW30E-900

# OUTDOOR WIRELESS CONTACT SENSOR MANUAL

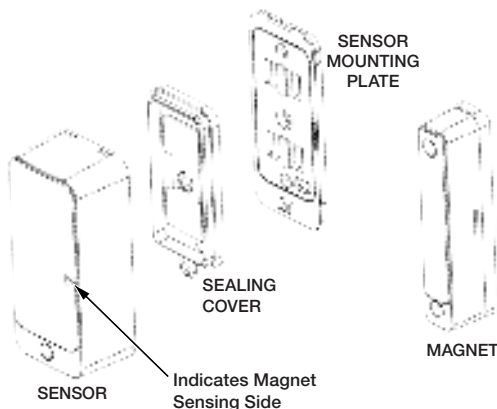
## Installation Instructions

The 2GIG® E+ Outdoor Wireless Contact (2GIG-DW30E-900) is designed for installation on gates. It is one of the E+ devices from Nice North America LLC providing enhanced functionality with extended wireless range to the control panel using the 900Mhz frequency.

When the magnet (which is mounted near the sensor) moves away from or closer to the door contact's sensor, signals are transmitted to the control panel. The sensor also has an external input that accepts connections from Normally Closed (NC) or Normally Open (NO) dry contact devices. For added protection, it is also equipped with a cover and wall tamper.

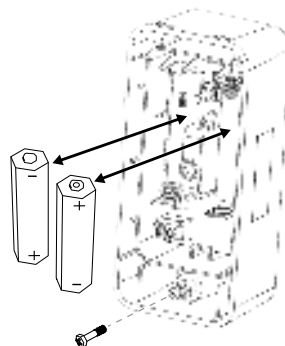
## Box Contents

- Outdoor Sensor
- Magnet
- Lithium AA Batteries (2x)
- Mounting screws



## Installing the Batteries

1. Loosen the cover screw.
2. Use a small screwdriver in the Pry point to remove the Sensor Mounting Plate.
3. Remove the Sealing Cover.
4. Install the two Lithium Ion batteries (note battery polarity).
5. Align the Sealing Cover to the screw hole in the sensor cover, then press to close.
6. Engage Sensor tabs into mating holes in Sensor Mounting Plate and swing closed. Secure with cover screw.



## Mounting Guidelines

Mount the Sensor within TBD ft of the control panel. Although the transmitter may have a range of 2625 ft (800 m) open air, the sensor location can have a significant effect on range. In open / unobstructed situations, the transmitter range may be greater.

## Programming

1. Put the panel in sensor Learn mode.
2. Pull battery tab from the Detector to start auto-learn.
3. If Detector is already powered up, remove it from the base plate then press and hold the Learn button for 3 seconds until red LED starts to flash.
4. Once pairing is successful, the Detector LED will long flash red one time, turn off and then exit pairing mode.

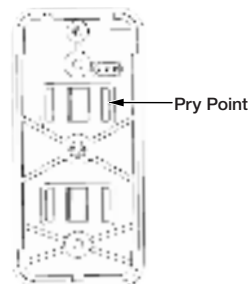
**NOTE:** Pairing mode expires automatically after 1 minute of entering the mode.

## RF Testing

To verify sensor RF coverage, follow these steps to place the sensor in signal test mode:

1. Remove the base plate
2. Press the learn button twice.
3. Observe LED flashing.  
 Good signal: One long flash  
 Poor signal: Two quick blinks

The Sensor automatically exists RF test mode after testing has completed.



## Testing the Outdoor Wireless Contact

Before mounting the Outdoor Wireless Contact at the desired location, perform a walk test to verify that it can establish good Radio Frequency (RF) communication with the control panel.

To verify, follow these steps to place the sensor in signal test mode:

1. Press the learn button twice.
2. Observe LED flashing.

**Good signal:** One long flash

**Poor signal:** Two quick blinks

3. The sensor exits signal test mode automatically afterward.

**NOTE:** To fully test the Outdoor Wireless Contact, see the control panel's Installation and Programming Guide.

- Mount the device on a vertical surface (at a sufficient height) where water, snow and ice buildup won't interrupt operation.  
**NOTE:** Adding silicone caulk surrounding the rubber wire seal on the Sealing Cover will increase protection against water.
- Mount the Magnet on the magnet sensing side of the Sensor (as indicated by two horizontal lines). On wooden surfaces a gap of approximately 2" is possible. This will be decreased when mounting on metal surfaces.
- Mount the Sensor on the stationary surface, and mount the Magnet on the moving surface.
- Mount the Magnet and Sensor parallel with one another.
- Mount the sensor and magnet on the inside of the structure (if possible).  
**NOTE:** Use screws suitable for the mounting surface.
- If mounted on a curved surface, use zip ties and/or suitable screws to fasten the Sensor and Magnet.

## Tamper Protection

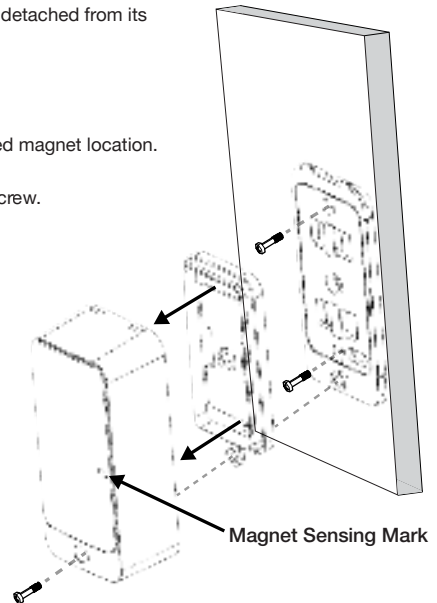
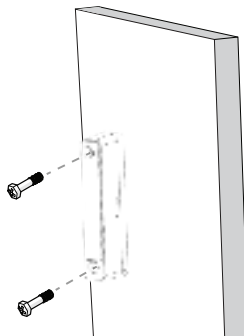
The tamper switch will activate if the cover is removed or if the sensor is detached from its mounting plate.

### Mounting the Sensor on a Flat Surface.

1. Loosen the cover screw and remove the Sensor Mounting Plate.
2. Ensure that the Magnet Sensing Marks are aligned toward the desired magnet location.
3. Screw the Mounting plate into the desired surface.
4. Replace the Sensor onto the Mounting plate and tighten the cover screw.

### Mounting the Magnet on a Flat Surface.

1. Ensure that the magnet marks are aligned to the desired magnet location.
2. Mount the magnet into the desired surface using the two screws.



### Sensor and Magnet Mounting Height

Ideally, the Sensor and Magnet should be mounted on surfaces of equal height.

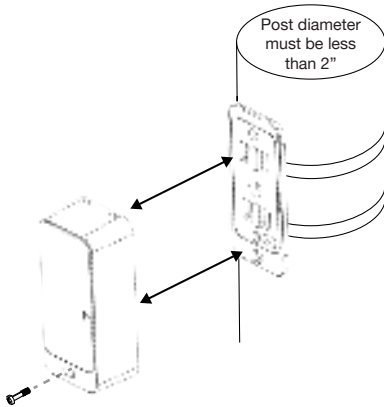
When mounted at a level height, the 1/4" preferred mounting height offset should be attained.

A height offset that exceeds 1/2" will decrease detection capabilities.



## Sensor and Magnet Mounting Distance

The preferred mounting distance between the Sensor and Magnet is 1/4 inch.



## Mounting on a Curved Surface

Strap ties and cable ties used for mounting are not supplied.

Recommended are:

- Self-locking stainless steel strap ties (recommended)
- Heavy duty Nylon 6/6 IN and Temperature Rated cable ties (0.5 inch wide)
- A combination of screws and ties.

**Figure 1:** Example: Self-Locking Stainless Steel Strap



EXTERNAL WIRING - May be used with external closed contact switches.

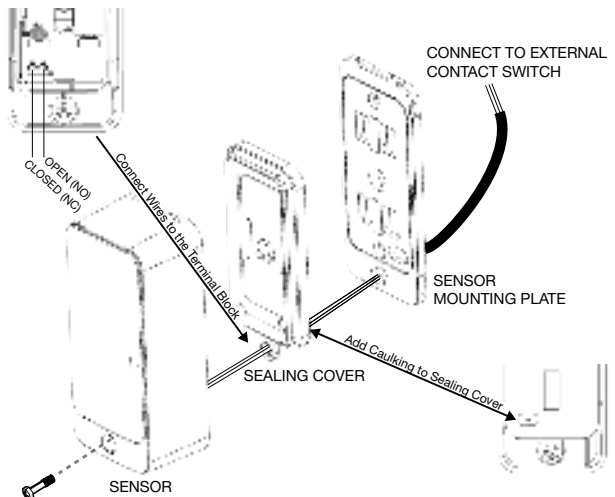
**NOTE:** Use minimum of 22AWG jacketed cable. The contact switch must be a Form C (SPDT) type.

**UL:** Maximum wire length cannot exceed 3 feet.

1. Strip the cable jacket back about four inches to provide adequate space for Sealing Cover removal while changing batteries.
2. Feed the cable through the access hole in Sensor Mounting Plate. Use the cable notch on mounting plate to pass through the jacketed portion of cable, then attach the Sensor Mounting Plate.
3. Route the cable to the external contact switch and fasten at intervals to secure the cable.
4. Remove the Sealing Cover and feed the wires through the rubber wire seal. If installed, remove the batteries.
5. Connect the wires to terminal block in the battery chamber, then install the batteries.
6. Replace the Sealing Cover.

**NOTE:** The cover screw hole should line up with the screw hole in the sensor cover. Press to close. Apply silicone caulking to the rubber wire seal.

7. Engage the tabs in the Sensor Mounting Plate to the slots in the sensor, and swing closed. Secure with cover screw.



## PAINTING THE SENSOR

The sensor and magnet may be painted to match the color of the mounting surface. Only paints made for plastic may be used. Follow the manufacturer's instructions for preparing the plastic, applying the paint and recommended drying times.

**NOTE:** DO NOT USE METALLIC PAINT COLORS.

## Specifications

Wireless Signal Range	TBD
Code Outputs	Open, Restore, Supervisory, Low Battery, External Open, External Restore, Tamper, Tamper Restore
Transmitter Frequency	902MHz~928MHz
Supervision Interval	70 minutes.
External Input	Accepts N/C or NO dry contact devices
Magnet Dimensions (L x W x H)	
Magnet Type	Rare Earth
Magnet Gap	Up to 1.25"
Sensor Dimensions (L x W x H)	
Housing Material	ASA
Color	Black
Operating Temperature	-40°F to 150 °F (-40°C to 66 °C)
Relative Humidity	0 ~ 100%
IP Rating	Tested to IP56
Battery (Included)	Two (2) Lithium AA
Certifications	FCC, IC
Panel Programming Sensor Loop	Loop 1: external contact. Loop 2: magnet/reed switch

## REGULATORY INFORMATION

We, Nice North America, LLC of 5919 Sea Otter Place STE 100, Carlsbad, CA 92010, declare under our sole responsibility that the device, 2GIG-DW30E-900 complies with Part 15 of the FCC rules.

### FCC & IC Notice

This device complies with Part 15 of the FCC Rules and Industry Canada license exempt standard(s). 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 received that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003

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

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 to help.

#### FCC:

**Federal Communication Commission (FCC) Radiation Exposure Statement:** When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

#### IC:

**Radiation Exposure Statement:** This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

**WARNING:** Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## LIMITED WARRANTY

This Nice North America LLC product is warranted against defects in material and workmanship for two (2) years. This warranty extends only to wholesale customers who buy direct from Nice North America LLC or through Nice North America normal distribution channels. Nice North America does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. There are no obligations or liabilities on the part of Nice North America for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties for functionality, are valid only until the warranty expires. This Nice North America Warranty is in lieu of all other warranties expressed or implied.

### Customer Service

(800) 421-1587  
M – F, 8am – 7pm EST

### Nice North America LLC

5919 Sea Otter Place, Suite 100  
Carlsbad, CA 92010

The logo for Nice North America, featuring the word "Nice" in white serif font on a black rectangular background.

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