

# THIN DOOR/WINDOW CONTACT

## INSTALL INSTRUCTIONS

The 2GIG-DW10-345 is a Thin Door/Window Contact that can be installed on doors, windows, and many other objects that open and close. The sensor transmits signals to the Control Panel when a magnet mounted near the sensor is moved away from or closer to the sensor. The sensor has an external input that accepts N/C dry contact devices. The sensor is also equipped with a cover tamper for additional security.

### Box Contents

- D/W Sensor
- Magnet
- 2 Screws
- 3M Tape
- 12" Wire Lead

### Programming

The following steps are for programming (learning) the sensor(2GIG-DW10-345) into the 2GIG Control Panel. Scroll between options using the ← and → arrows. Move to the previous or next prompt by pressing the ↑ and ↓ arrows.

- 1 Select RF sensor # (01 to 48). Assign the DW10 to a new zone.
- 2 Select RF sensor type.
  - (01) Entry/Exit 1
  - (02) Entry/Exit 2
  - (03) Perimeter
  - (23) no response type
- 3 Select RF equipment type.
  - (1) contact
- 4 Select RF sensor equipment code. Enter **0862** for the DW10-345 2GIG Thin Door/Window Contact.
- 5 Enter RF sensor serial number (7 digits).
 

**Manual Entry:** Type in the last 7 digits of the TX ID that is found outside of the box or on the back of the device.  
**Auto Entry:** With the panel in Learn-in mode (press **Shift** then **Learn**) pull the Battery Pull Tab out. The correct TX ID should appear. Accept the correct TX ID by pressing **ok**.  
*Remember to press the ↓ arrow to continue going through the 2GIG system configuration prompts.*
- 6 Select RF sensor equipment age (0 to 1).
  - (0) new (product is new)
  - (1) existing (product already exists)
- 7 Select RF sensor 1 loop number (1 to 3).
  - (1) Uses Loop 1
  - (2) Uses Wire lead Loop 2
  - (3) Uses Exterior Switch (magnet only)
- 8 Select RF sensor 1 dialer delay.
  - (0) disabled
- 9 Construct RF sensor voice descriptor. Press **Insert** then press any number between 002 and 255 to add a word. For example, if you wanted to name this DW10 as "master window," press **Insert** then press **140** for **MASTER**. Press **Insert** then press **251** for **WINDOW**.
- 10 Select RF sensor reports (0 to 1).
  - (0) disabled
  - (1) enabled
- 11 Select RF sensor supervised (0 to 1).
  - (0) disabled (sensor does not report loss of supervision or low battery)
  - (1) enabled (sensor reports loss of supervision)
- 12 Select RF sensor chime (0 to 13).
  - (0) disabled (panel will NOT chime when sensor is activated)
  - (1-13) enabled (selects a voice and/or chime to sound when sensor is activated)
- 13 To program another sensor click **next**.
- 14 To exit programming, click **skip** then **end** and **exit**. Upon exit, the panel takes a several seconds to reboot.

### Testing

- Open the Door/Window Contact (separate the magnet from the sensor). This action causes the Control Panel to display the open zone with the assigned descriptor on top of the screen. The Security Button becomes yellow (showing that a zone is open).

### Walk Test

- 1 From the **Installer Toolbox**, select **walk test**.
- 2 Open and close the DW10. This action causes the Control Panel to display the signal strength of the DW10.
- 3 Exit the **Installer Toolbox**.

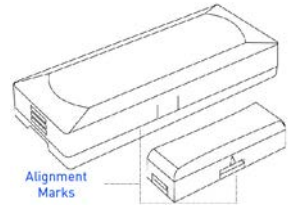
### Installing and Mounting

For internal switch usage, do the following:

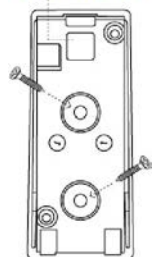
- 1 Mount the sensor on the door frame and the magnet on the door. If the sensor is used on double doors, mount the sensor on the least-used door and the magnet on the most-used door.

**TIP:** If possible, locate sensors within 100 ft. (30 m) of the Control Panel. While a transmitter may have a range of 350 ft. (106 m) or more out in the open, the environment at the installation site can have a significant effect on transmitter range. Sometimes a change in sensor orientation can help overcome adverse wireless conditions.

- 2 Make sure the alignment arrow on the magnet points to the alignment mark on the sensor (see the figure above).
- 3 Place sensors at least 4.7 in. (12 cm) above the floor to avoid damaging them.
- 4 Avoid mounting sensors in areas where they will be exposed to moisture or where the sensor operating temperature range of 32 to 120°F (0 to 49°C) will be exceeded.
- 5 Use spacers (not included) to keep sensors and magnets away from metal or metallic surfaces such as foil wallpaper.



Access hole for external input wire



**NOTE:** Avoid mounting sensors in areas with a large quantity of metal or electrical wiring, such as a furnace or utility room.

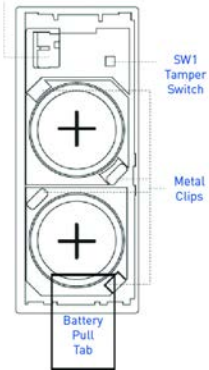
### To mount the sensor, do the following:

- 1 Place the base of the sensor in the desired location and secure with the included screws (as shown in the previous figure).
- 2 When mounting the magnet, line up the arrow on the magnet with the middle line on one side of the sensor (see figure on first page). Mount the magnet no more than 0.4 in. (1 cm) away from the sensor. Be sure to secure the magnet with adhesive.

### For use with external input, do the following:

- 1 Repeat above instructions for mounting. Drill hole through access hole, if needed (as shown in the figure on the previous page).
- 2 Plug two-pin connector into J1 (see figure).
- 3 Connect wire to N/C dry contact device.

J1 External Input Wire



## Inserting and Replacing Batteries

If a supervised sensor battery is low, a low battery notification is indicated on the Control Panel. When the 2GIG system indicates that the sensor has a low battery, replace the battery immediately. Use only the recommended replacement batteries (See Specifications). To install or replace the battery, do the following:

- 1 To remove the sensor cover, use your finger to press the tab on the end of the case. This disengages the clip holding the cover to the base.
- 2 Place a small flathead screwdriver in the slot between the metal clip and battery and twist the screwdriver slightly while holding back one of the black plastic edges holding the battery.
- 3 Insert the replacement battery with the + sign facing out.
- 4 Verify programming and RF communication with the Control Panel (see Testing).

**WARNING:** The polarity of the battery must be observed, as shown. Improper handling of lithium batteries may result in heat generation, explosion or fire, resulting in personal injuries. Replace only with the same or equivalent type of battery as recommended by the manufacturer (see Specifications). Batteries must not be recharged, disassembled or disposed of in fire. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area. Keep Away From Small Children. If batteries are swallowed, promptly seek medical attention.

**California Only:** This Perchlorate warning applies only to Manganese Dioxide Lithium cells sold or distributed ONLY in /California, U.S.A. Perchlorate Material-special handling may apply. See [dtsc.ca.gov/hazardouswaste/perchlorate](http://dtsc.ca.gov/hazardouswaste/perchlorate).

## Specifications

Wireless Signal Range	350 ft, open air, with 2GIG Wireless Control Panel
Code Outputs	Alarm; Alarm Restore; Supervisory; Low Battery; External Alarm; External Restore; Tamper; Tamper Restore
Transmitter Frequency	345,000 MHz (crystal controlled)
Transmitter Frequency Tolerance	±15kHz
Transmitter Bandwidth	24kHz
Modulation Type	Amplitude Shift Keying-On/Off Keying (ASK-OOK)
Unique ID Codes	Over one million different code combinations
Supervisory Interval	70 minutes
Peak Field Strength	Typical 36,000 uV/m at 3m
External Input Sampling Current	20 uA
External Input	Accepts N/C dry contact devices
Reed Switch Magnetic Sensitivity	10 to 20 amp turns
Reed Sensitivity	0.625 in. (1.59 cm) minimum gap, 0.85 in. (2.16 cm) typical
Magnet Dimensions (LxWxH)	1.3 x 0.435 x 0.312 in. (3.3 x 1.1 x 0.79 cm) typical
Magnet Type	Rare earth
Sensor Dimensions (HxD)	2.59 x 1.03 x 0.49 in. (6.58 x 2.62 x 1.24 cm)
Weight (including battery and magnet)	1.1 oz. (31.2 g)
Housing Material	ABS plastic
Color	White
Operating Temperature Limits	32° to 120° F (0° to 49° C)
Relative Humidity	5-95% Non-Condensing
Battery (installed with pull tab)	Two Panasonic CR2032 or equivalent Lithium batteries
Included Accessories	Two Phillip's flat-head screws, one 2-pin connector with a 12" flying wire lead, adhesive strip

## FCC and Industry Canada Regulatory information

This device complies with Part 15 of the FCC's 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.

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 product complies with FCC radiation exposure limits for an uncontrolled environment. Avoid operating this product at a distance less than 20 cm from the user.

**Caution:** Any changed or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## LIMITED WARRANTY

This 2GIG Technologies product is warranted against defects in material and workmanship for 2 years. This warranty extends only to wholesale customers who buy direct from 2GIG Technologies or through 2GIG Technologies' normal distribution channels. 2GIG Technologies 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 2GIG Technologies 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 2GIG Technologies Warranty is in lieu of all other warranties expressed or implied.

**For technical support in the USA and Canada:**

855-2GIG-TECH (855-244-4832)

**For technical support outside of the USA and Canada:**

Contact your regional distributor

Visit dealer.2gig.com for a list of distributors in your region.

PN: 187-0678 Rev C

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