

TX-E231 Door/Window Sensor with External Contact Input

Installation Sheet

Overview

The TX-E231 door window contact is designed for compatibility with Interlogix and Qolsys control panels that receive 319.5 MHz RF protocol.

Enrolling

To enroll the sensor, set your panel into program mode. Then go to the Learn Sensors menu. Refer to your specific alarm panel manual for details on these menus. When prompted by the panel:

Touch the magnet to the side of the sensor that has three white lines. This will send a signal to the control panel using the serial number printed on the back of the sensor. OR connect the provided external wire, and short the wires together. Select the appropriate sensor group and number

Note: You cannot use both the external wire input and the magnet/reed switch at the same time. When using the magnet, the external wires must be disconnected.

Mounting

One side of the sensor is marked with 3 lines; this indicates the location of the reed switch. The magnet should be mounted facing this side of the sensor and be no further than 5/8" (15.875mm) from the sensor.

Included with this device is double sided tape for the contact and the magnet. Choose a suitable location for the sensor by following the procedure in the section "Testing the Sensor" ensuring desired signal strength is achieved. For reliable bonding, ensure the surface is clean and dry. Apply the tape to the sensor and then to the desired location. Apply firm pressure for several seconds.

Note: When mounting with double sided tape, ensure temperatures are above 50°F and will remain above 50°F for at least 24 hours to ensure proper bond. After 24 hours, the bond will hold at lower temperatures.

In addition, a mounting back plate with screws is provided. Simply screw the back plate onto the mounting surface and snap the sensor onto the mounting plate.

To remove the sensor from the mounting plate, first remove the cover. At the bottom of the sensor (closest to the battery) a small tab will be visible. Use a small flat head screwdriver to press the plastic tab towards the wall, and then slide the sensor up.

Note: Do not use tape to secure the mounting plate to the wall.

Where possible, install sensors within 100 ft. (30 m) of the panel. While a transmitter may have an open-air range of 500 ft. (150 m) or more, the environment at the installation site may have a significant effect on operational range. Changing a sensor location may improve wireless communication.

Interchangeable Covers

The contact comes from the factory assembled with a white cover but included are optional brown covers. To open or change the cover, loosen the screws by turning them counterclockwise, and then to remove the top cover, grasp it from the sides of the cover near the screws and lift. Replace with the brown cover ensuring the Top (as marked on the inside of the cover) points away from the battery. You should hear a click when the cover engages and disengages from the sensor. You do not need to replace the back plastic. Follow instructions in the Replacing the Battery section to replace the cover. To replace the magnet cover, you will need to gently pry the white cover off with a flat head screwdriver and snap the brown cover in place.

Installing / Replacing the Battery

When the battery is low a signal will be sent to the control panel. To install/replace the battery:

1. To open or change the cover, loosen the screws by turning them counterclockwise, and then to remove the top cover, grasp it from the sides of the cover near the screws and lift to reveal the battery. (Removing the cover will trigger a zone tamper signal to the control panel.)
2. Install/replace with a CR2032 battery ensuring the + side of the battery faces towards you.
3. Re-attach the cover, ensure the Top (as marked on the inside of the cover) points away from the battery. Insert bottom case into top cover at an angle to engage the notch at the top end. Then, lower the screws into place in the bottom case. Turn the screws clockwise to firmly secure cover.

Testing the Sensor (Test Weekly)

The sensor test verifies proper communication between the sensor and the panel/receiver. To test the sensor, refer to the specific panel/receiver documentation and do the following:

1. Put the panel/receiver into sensor test mode.
2. Open the door/window the sensor is protecting. The sensor transmits a signal.
3. Listen for siren beeps to determine the appropriate response.
4. Exit sensor test mode.

Specifications TX-E231

Frequency	319.5MHz
Battery	3V lithium CR2032 (225 mAh)
Battery Life	5-8 years
Operating Temperature	32°-120°F (0°-49°C)
Operating Humidity	5-95% RH non condensing
Magnet Gap	5/8" (15.875mm) max
Supervisory Signal Interval	60 min (approximately)
External Contact Input	Normally Closed
Compatibility	Interlogix Learn Mode Panels and Receivers

Battery Safety

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

FCC 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.

Changes or modifications not expressly approved by Ecolink could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-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 radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

FCC ID: XQC-WST231

IC: 9863B-WST231

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.

Contact information

For sales support, visit www.discoverecolink.com or email sales@discoverecolink.com

To provide feedback or to speak to Ecolink customer care directly, email sales@discoverecolink.com or call 855-632-6546 option 3 then option 1 for sales.

For a technical support representative call 855-632-6546 Option 2 for security product support. Option 1 for ZWAVE or Zigbee product support. Hours of operation are Monday – Friday 8a to 8p eastern standard time.

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Intended Use

USE THIS PRODUCT ONLY FOR THE PURPOSE IT WAS DESIGNED FOR; REFER TO THE DATA SHEET AND USER DOCUMENTATION. FOR THE LATEST PRODUCT INFORMATION, CONTACT YOUR LOCAL SUPPLIER OR VISIT US ONLINE AT WWW.DISCOVERECOLINK.COM THE SYSTEM SHOULD BE CHECKED BY A QUALIFIED TECHNICIAN AT LEAST EVERY 3 YEARS AND THE BACKUP BATTERY REPLACED AS REQUIRED.

Limited Warranty

This limited warranty is provided by Ecolink Intelligent Technology ("Ecolink") to you as the original purchaser of the product. Ecolink warrants this product to be free from defects in material and workmanship for a period of one (1) year from the date of original purchase. The determination of whether the product is defective shall be made by Ecolink in its sole discretion with consideration given to the overall performance of the product. If Ecolink determines that any product is defective, Ecolink's sole obligation and your sole and exclusive remedy shall be that Ecolink will replace the product.

This warranty does not apply to damage caused by shipping or handling, or damage caused by accident, abuse, misuse, misapplication, ordinary wear, improper maintenance, failure to follow instructions or as a result of any unauthorized modifications. The foregoing limited warranty is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Ecolink. Ecolink neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. It is recommended that the customer check their equipment on a regular basis for proper operation.

Return Policy

Please visit us at www.discoverecolink.com/return to view our return policy.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as 2 hours.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

