

TX+DWS Door/Window Sensor Installation Instructions

PLEASE SEE REVERSE SIDE FOR IMPORTANT PRODUCT WARNINGS AND DISCLAIMER INFORMATION.

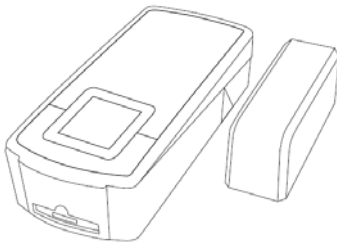
Description

The TX+DWS Door/Window Sensor is intended for installation on doors, windows, and 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 TX+DWS features the TX+ Encryption protocol which provides encrypted wireless communication to select Interlogix control panels. Please refer to your panel's installation instructions to see if it is TX+ Encrypted capable.

The TX+DWS also utilizes the standard ITI-319 protocol which is compatible with all Interlogix control panels and receivers.

Figure 1: TX+DWS



Enrollment Into TX+ Encryption Supported Panels

To enroll the TX+DWS as an encrypted sensor into a panel that supports the TX+ Encryption protocol, follow these steps:

- 1) Place the panel into program mode, then go to Learn Sensors menu. Refer to your specific alarm panel manual for details on these menus.
- 2) Once the Learn Sensors mode has been activated, remove the battery pull tab to auto-enroll the device. Then select the appropriate sensor group and number. Refer to your specific alarm panel manual for details on the different sensor groups.
- 3) If the panel does not respond upon removing the battery pull tab, exit the Learn Sensors mode and then remove the front sensor housing and transmitter from the back housing by inserting a small flat head screwdriver into the slot at the top of the sensor and pressing on the tab. Remove the batteries from the sensor.
- 4) With the batteries removed, return back to the panel and activate the Learn Sensors mode again. With Learn Sensors mode activated, re-insert the batteries (paying close attention to the battery polarity indicators) to auto-enroll the device.

Note: Utilization of the TX+ Encrypted protocol is only compatible with select Interlogix control panels. When enrolled into a panel that is TX+ Encrypted capable, the enrollment menu screen may indicate "TX+ Encrypted" to verify that the sensor is communicating to the panel via the encrypted protocol. Please refer to your panel's installation instructions to verify that the panel supports TX+ Encrypted capability.

Enrollment into Non TX+ Encryption Supported Panels (ITI-319 Protocol)

To enroll the TX+DWS into a panel utilizing the standard ITI-319 protocol, follow these steps:

- 1) First remove the battery pull tabs from the device.
- 2) After the pull tabs have been removed, place the panel into program mode, then go to Learn Sensors menu. Refer to your specific alarm panel manual for details on these menus.
- 3) Once the Learn Sensors mode has been activated, remove the front sensor housing and transmitter from the back housing by inserting a small flat head screwdriver into the slot at the top of the sensor and pressing on the tab. This will activate the tamper switch which will auto-enroll the device. Then select the appropriate sensor group and number. Refer to your specific alarm panel manual for details on the different sensor groups.
- 4) If the panel does not respond upon tampering the device, replace and then remove the cover again to tamper the sensor another time. Repeat until the panel responds, and then continue to selecting the appropriate sensor group and number.

Mounting

Included with this device is double sided tape for the transmitter and magnet, as well as screws if a more secure method of mounting is preferred. Choose a suitable location for the sensor by following the procedure in the section "Sensor Testing" ensuring desired signal strength is achieved. Note that it is recommended the transmitter be installed on the stationary or non-moving part of the installation (frame) and the magnet installed on the moving object (door).

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.

For reliable bonding with the provided double sided tape, ensure the surface is clean and dry. Apply the tape to the backside of the sensor, and then to the desired location. Apply firm pressure for several seconds. 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.

Sensor Testing

The sensor test verifies proper communication between the sensor and the panel/receiver. The sensor should be tested prior to permanent installation, as well as weekly. 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 installed on – the sensor will then transmit a signal
- 3) Listen for the siren beeps to determine the appropriate response.

Note: When enrolled into a TX+ Encryption supported panel and communicating via the TX+ Encryption protocol, the panel will beep up to 8 times for each transmission, indicating the total number of packets received. It is recommended that at least 6 out of 8 packets are received in the desired sensor location to ensure reliable communication to the panel.

When enrolled into a panel and communicating via the standard ITI-319 protocol, the panel will beep up to 4 times for each transmission during the sensor test mode, indicating the total number of packets received. It is recommended that at least 3 out of 4 packets are received in the desired sensor location to ensure reliable communication to the panel.

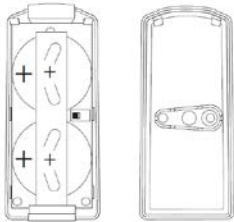
- 4) Exit sensor test mode when proper communication between the sensor and panel/receiver has been verified.

Replacing the Batteries

The TX+DWS comes pre-installed with two Energizer CR-2032 Lithium coin-cell batteries that provide up to 8 years of battery life under normal usage conditions. When the batteries are low, a signal will be sent to the control panel. To replace the batteries, do the following:

- 1) With the sensor mounted, remove the case cover from the back housing by inserting a small flat head screwdriver into the slot at the top of the sensor and pressing on the tab.
- 2) Remove the existing batteries and re-install new Energizer CR-2032 batteries. When inserting the batteries, pay close attention to the battery polarity indicators to ensure proper placement.
- 3) Replace the case cover and perform a sensor test to ensure proper communication to the panel/receiver.

Figure 2: Circuit Board Layout



TX+DWS

RF Frequency	319.5 MHz – (Crystal Based)
Compatibility (TX+ Encrypted)	Only Select Interlogix 319.5 MHz control panels/receivers (refer to panel's installation instructions to verify compatibility)
Compatibility (Standard ITI-319)	All Interlogix 319.5 MHz control panels/receivers
Battery Type	2x CR-2032 (Panasonic)
Typical Battery Life	Up to 8 years at 68°F (20°C)
Operating Temperature Range	32° to 120°F (0° to 49°C)
Relative Humidity	0-95% non-condensing
Supervisory Interval	64 Minutes
Storage Temperature Range	-30° to 140°F (-34 to 60°C)
Dimensions	2" x 1" x 0.5"

FCC Compliance Statement

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. 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 UTC Fire and Security could void the user's authority to operate the equipment.

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 radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

Conformément aux exigences d'Industrie Canada en matière d'exposition humaine aux champs de radiofréquences, l'élément rayonnant doit être installé de telle sorte qu'une distance minimale de 20 cm soit maintenue par rapport à la population générale.

FCC: 2ABBZ-RF-CMDWS-UTC
IC: 11817A-RFCMDWSUTC

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 contact information, visit us online at www.interlogix.com.
For technical support, see www.interlogix.com/support

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Product Warnings and Disclaimers

 **WARNING: CHOKING HAZARD - Small parts. Keep away from children.**
ATTENTION: RISQUE D'ÉTOUFFEMENT – Petite pice. Garder éloigner des enfants.

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