



Description

The Crestron® INETS-IOEX-DOOR-BATT door sensor detects when a door is open or closed and transmits the state to the Crestron control system. The door sensor communicates with the control system via the infiNET EX® wireless network. The door sensor is comprised of two parts: a magnet and a sensor.

Parts that are included with the INETS-IOEX-DOOR-BATT:

ITEM	Qty
Sensor	1
Encapsulated magnet - 11/16 in. x 2-11/16 in.	1
Disc magnet - 1/2 in. Dia. x 1/16 in. L	1
Barrel magnet - 15/64 in. Dia. x 25/32 in. L	1
Double-sided tape - 1/2 in. Dia.	1
Nail - 1 in.	2
Mounting bracket	2
Dry contact connector	1
Paper Clip (Attached to Installation Guide)	1

Additional Resources

Visit the product page on the Crestron website (www.crestron.com) for additional information and the latest firmware updates. Click the QR code or use a QR reader application on your mobile device to scan the QR image.



Install the Door Sensor

The sensor can be recess mounted by placing it into a drilled hole in the top of the door or surface mounted by using double-sided tape to adhere it to the face of the door.

To ensure proper operation, the active end of the sensor must be in close proximity to the magnet. The active end of the sensor has a hole for the setup button and a notch for removing the bottom cover.

NOTES:

- The INETS-IOEX-DOOR-BATT must be installed within range of an infiNET EX wireless network.
- If installed in a hard-to-reach location, join the infiNET EX wireless network before installation. Refer to the "Operation" section on page 2 for details.

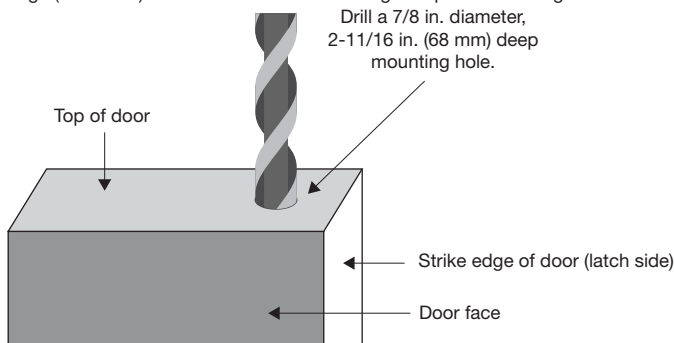
Recess Mount the Sensor

Install the sensor into the top of the door near the strike edge to keep the sensor hidden from view.

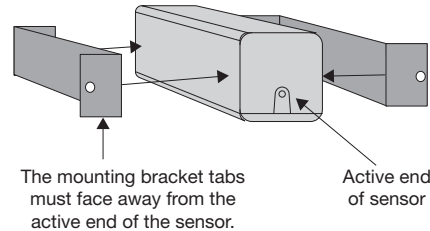
NOTE: If necessary, the sensor can be installed in the door frame jamb and the magnet may be secured to the door.

Install the Sensor

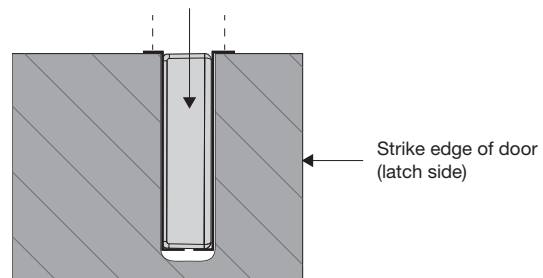
1. Use a drill and a 7/8 in. diameter drill bit to make a 2-11/16 in. (68 mm) deep hole in the top of the door. The hole should be centered in the top of the door near the strike edge (latch side). Ensure that the hole is straight to prevent binding.



2. Remove one side of the preinstalled double-sided tape from a mounting bracket and then secure the mounting bracket to the side of the sensor. When securing the bracket to the sensor, ensure that the tabs on the mounting bracket face away from the active end of the sensor. Repeat for the other mounting bracket.



3. Insert the sensor and bracket assembly into the hole.
4. Secure the sensor and bracket assembly using two nails (supplied). Insert the sensor into the door and secure with nails.



Install the Disc or Barrel Magnet

Place a disc or barrel magnet on the door frame opposite the active end of the sensor. The distance between the active end of the sensor and the magnet should be 1/8 in. or less.

NOTE: To ensure proper operation, a recess may need to be made in the door frame to maintain proper distance between the magnet and the door sensor.

Install the magnet:

1. Remove one side of the double-sided tape and place it onto a flat side of the magnet.
2. Remove the other side of the double-sided tape and secure the magnet to the door frame.

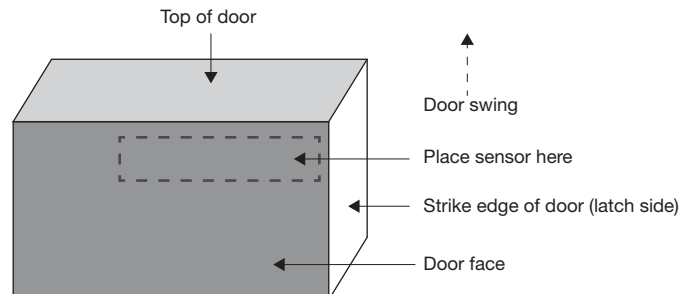
Surface Mount the Sensor

Secure the sensor to the face of the door. The sensor should be located at the top of the door so that it is near the door jamb and strike edge. The sensor can be installed vertically or horizontally on the face of the door.

NOTE: If necessary, the sensor can be secured to the door frame jamb and the magnet may be secured to the door.

Install the Sensor

1. Remove one side of the double sided tape from the sensor.
2. Secure the sensor to the face of the door.



Install the Encapsulated Magnet

The encapsulated magnet should be placed on the door frame with the marked "M" on the magnet adjacent to the active end of the sensor. The encapsulated magnet should be parallel to the sensor and placed 1/8 in. from the sensor when the door is closed.

NOTE: If necessary, the magnet end can be determined by moving the case of the encapsulated magnet near a ferrous metal object.

Install the encapsulated magnet:

1. Remove one side of the double sided tape from the encapsulated magnet.
2. Secure the encapsulated magnet to the door frame.

Operation

NOTE: Before using the INETS-IOEX-DOOR-BATT, ensure the device is using the latest firmware. Check for the latest firmware for the INETS-IOEX-DOOR-BATT at www.crestron.com/firmware. Load the firmware onto the device using Crestron Toolbox™ software.

During normal operation, the door sensor does not provide local feedback to indicate the state of the sensor. Door open/close status is provided directly to the control system.

During setup, the sensor emits audible beeps and short chirps to indicate status. The sensor beeps when the button is pressed.

NOTE: Use the supplied paper clip to press the button on the sensor. The button is located inside the small hole on the active end of the sensor. Refer to the illustration on page 1 for details.

Join an infiNET EX Network

The door sensor communicates with the Crestron control system using the infiNET EX wireless network. To communicate on the infiNET EX wireless network, the door sensor must be acquired by an infiNET EX gateway.

NOTES:

- The door sensor can be acquired by only one gateway.
- In an environment where multiple gateways are installed, place only one gateway in Acquire mode at any time.
- Ensure that the sensor is within range of the infiNET EX wireless network.

1. Press the **ACQUIRE** button on the infiNET EX gateway to enter Acquire mode.
2. Press the button on the sensor three times, and then press and hold it down (press-press-press+hold) for 12 seconds. Release the button. The sensor beeps once every 1.5 seconds while it attempts to join the infiNET EX wireless network.
 - The sensor chirps once when it has joined the infiNET EX wireless network.
 - The sensor chirps three times if it did not join the infiNET EX wireless network. Repeat step 2 to join the infiNET EX wireless network.
3. Press the **ACQUIRE** button on the infiNET EX gateway to exit Acquire mode.

Leave an infiNET EX Network:

1. Verify that the door sensor is not within range of a gateway that is in Acquire mode.
2. Press the button on the sensor three times, and then press and hold it down (press-press-press+hold) for 12 seconds. Release the button. The sensor beeps once every 1.5 seconds.
3. When the sensor chirps three times, it has left the infiNET EX wireless network.

Verify Communications Status

To check the communications status of the door sensor, send the VER command using the Crestron Toolbox console and then open or close the door (or press the setup button). The Crestron Toolbox console will provide the communications status.

Test Sensor Operation

Verify that the magnet is activating the sensor when the door is closed. To test the sensor, enter Setup mode:

1. Press the setup button 8 times. The sensor beeps to indicate that Setup mode has been entered.
2. Open and close the door. The sensor beeps when the magnet activates and deactivates the sensor. Setup mode exits after 4 minutes.

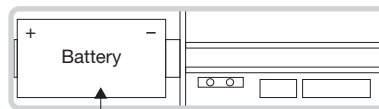
Low Battery / Change the Battery

If the sensor beeps three times when the door is opened or closed, the battery in the sensor is low and needs to be replaced. The battery is located under the bottom cover of the sensor. To replace the battery:

1. Insert a small, flat-blade screwdriver into the notch on the active end of the sensor and twist to remove the bottom cover. The bottom cover is held securely by four clips. Reasonable pressure must be applied to remove the bottom cover.

CAUTION: Take care while replacing the battery, the internal components of the sensor are fragile and can be easily damaged.

2. Replace the battery with a 1/2-AA 3.6 VDC battery (not supplied). Note the polarity on the bottom cover.



Remove and replace the battery.

3. The sensor powers on when the battery is inserted. The sensor beeps to indicate that it is fully started.
4. Replace the bottom cover.

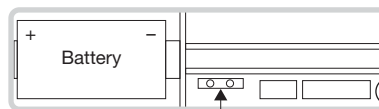
Install an External Dry Contact (Optional)

The door sensor can be operated using an external dry contact (not included) instead of a magnet. To use an external dry contact, attach the dry contact leads to the sensor and then to the external dry contact. The dry contact lead has a male plug on one end and flying leads on the other. To attach the external dry contact:

1. Insert a small, flat-blade screwdriver into the active end of the sensor and twist to remove the bottom cover. The bottom cover is held securely by four clips, reasonable pressure must be applied to remove the bottom cover.

CAUTION: Do not remove the PCB from the case. If the PCB is removed, be very careful with reinsertion. The small glass vial in the sensor can easily be broken. If the PCB is removed from the case, contact Crestron Customer Support for assistance.

2. Insert the male plug on the dry contact lead into the female connector inside the door sensor. The male plug and the female connector are keyed to ensure correct orientation. Firmly press the male plug into place. Use fine-point tweezers to make the connection.
3. Cut the breakout area on the edge of the sensor using cutting pliers. Route the dry contact leads out of the notch.



Attach the dry contact leads.

Route the dry contact leads through notch.

4. Replace the bottom cover.

Specifications

SPECIFICATION	DETAILS
Power	
Battery	1/2-AA, 3.6 VDC lithium battery (supplied, preinstalled)
Battery Life	4 Years (typical)
Environmental	
Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)
Dimensions	
Height	11/16 in. (17 mm)
Width	11/16 in. (17 mm)
Length	2-11/16 in. (17 mm)

Original Instructions: The U.S. English version of this document is the original instructions. All other languages are a translation of the original instructions.

Regulatory Model: M201904006

As of the date of manufacture, the product has been tested and found to comply with specifications for CE marking.



Federal Communications Commission (FCC) Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following 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.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

Industry Canada (IC) Compliance Statement

CAN ICES-3 (B)/NMB-3(B)

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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Specifications subject to
change without notice.