

## Tilt Sensor Installation Instructions

### Product Overview

- Z-Wave™ enabled device which transmits when a garage door is opened or closed
- Uses a tilt sensor to detect the angle of a door and transmits open/closed status
- Reports tamper condition if cover is removed

### Product Specifications

- For indoor use only
- Operating frequency: 908.42 MHz
- Operating range: Up to 100 feet (30.5 meters) line-of-sight
- Operating temperature: 0°C to 49°C, 32°F to 120°F (ambient temperature)
- Battery type: 3V Lithium CR123A
- Battery life: 5 to 8 years depending upon operating conditions



## Network Inclusion

The sensor must be added to a Z-Wave network prior to use. To include the sensor in a network both the sensor and the network controller must be in inclusion mode at the same time. *Refer to the instructions provided by the manufacturer of your specific controller for details on initiating the controller's inclusion mode.*

**STEP ONE** Start by placing the controller into inclusion mode.

**STEP TWO** Activate inclusion mode for the sensor by inserting the battery. When the inclusion process is complete the red LED will turn on for approximately 10 seconds and then it will go out. If the LED continues to flash, repeat the inclusion process.

**STEP THREE** Test the garage door sensor before mounting it. Hold the sensor in your hand. Flip the sensor upside-down and watch the LED while doing so. The LED will flash each time the position of the sensor is changed. If your Z-Wave network has a software interface you may verify that the messages from the sensor are being received each time the sensor is flipped.

Notes: If you need to repeat the inclusion process, repeat STEP ONE above, then for STEP TWO you will need to simply remove the cover of the sensor, remove the battery for 5 seconds, reinsert the battery, and replace the sensor cover. This will re-enter the sensor in inclusion mode.

### Network Inclusion: Key Points to Remember

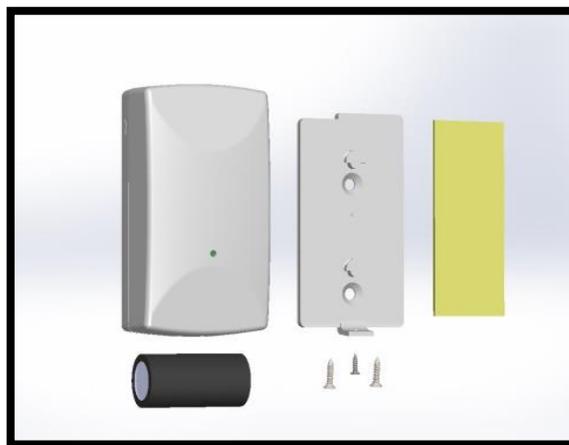
- Controller inclusion mode must be activated **BEFORE** starting sensor inclusion mode.
- The sensor can only be included in one network at a time. The sensor must be excluded from one network before inclusion in another.
- The sensor automatically enters inclusion mode at power-up.
- **Exclusion** mode on the sensor is initiated following the same exact procedure as inclusion.

## Installation

No tools required. Drill, screwdriver, pencil optional.

The package contains the following:

- 1- Sensor
- 1- Sensor mounting bracket
- 2- mounting bracket screws
- 1- sensor to bracket screw
- 1- battery
- 1- piece of adhesive tape



### STEP ONE

#### Identify Location for Tilt Sensor:

Choose a mounting method that is appropriate for your garage door. It is very important that the Tilt sensor be located on the top section of a multi-panel garage door. This will be the first section to tilt when the door is opened and the last to move to the vertical position when closing.

### STEP TWO

#### Mount the Tilt sensor to a clean dry surface **WITH THE ARROW ON THE SIDE OF THE SENSOR POINTING UP**

Before you mount the sensor, make certain that the arrow on the side of the Tilt sensor is pointing UP when assembled in the mounting bracket.

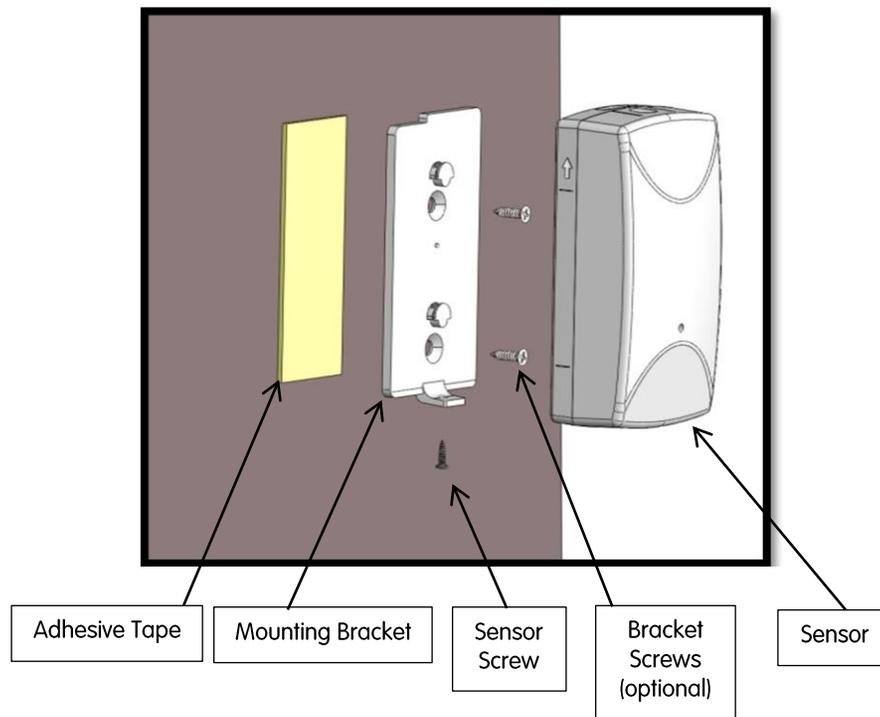
The sensor can be mounted using adhesive tape and/or screws. Caution: Use of the screws is only recommended for garage doors that are thicker than the screws are long. Use the adhesive tape for any garage door that is thinner than the length of the provided screws (including many modern metal garage doors).

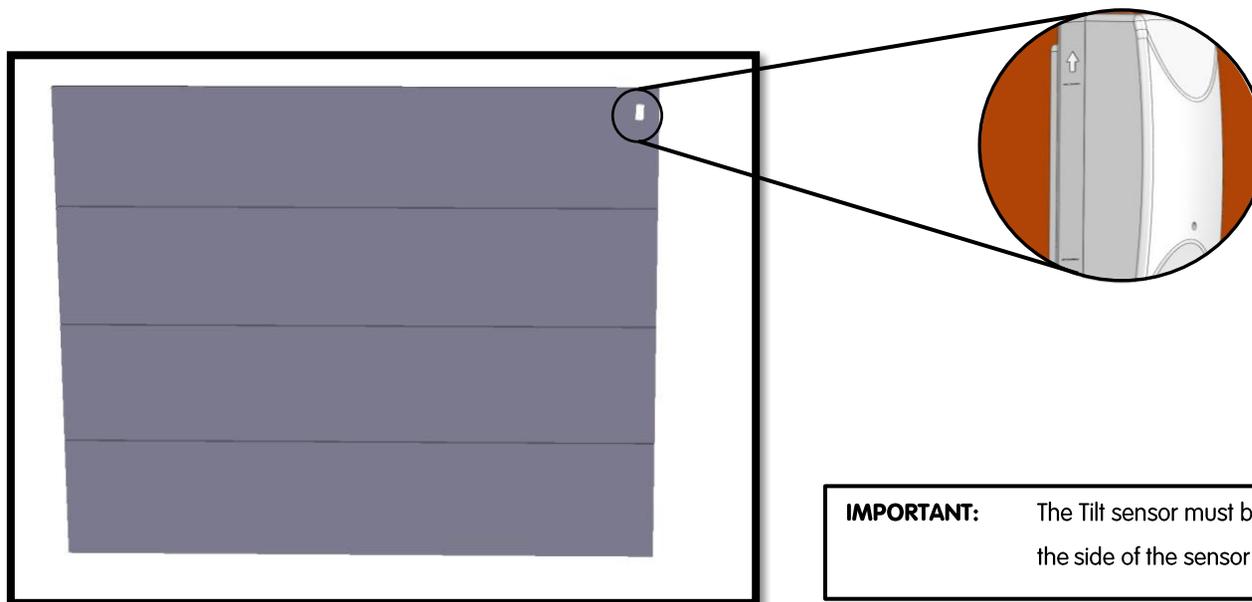
**Adhesive Tape:**

Make sure that the desired mounting location on the door is clean and dry. The adhesive tape can withstand the temperature and humidity conditions of a typical garage. However, it is recommended that the sensor be mounted when air or surface temperatures are not extreme. Installing the adhesive tape when the conditions are right promotes a good long-lasting adhesive bond between the bracket and the surface of the door. Peel back the outer layer of one side of the adhesive tape, stick the tape to the garage door and press firmly. Peel back the outer layer on the other side of the tape and press the mounting bracket firmly onto the adhesive tape.

**Screws:**

Place the mounting bracket in the desired position on the garage door. Use the mounting bracket as a template to mark the location of the screw holes with a pencil. Drill a small hole through each of the marked locations. Use a screwdriver to fasten the mounting bracket to the door.





**IMPORTANT:** The Tilt sensor must be located on the top panel AND have the arrow on the side of the sensor pointing UP in order to operate properly.

#### FCC Compliance Statement

This equipment has been tested and found to comply with the limits for Class B digital devices, 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 instruction manual, 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:

- Re-orient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from the receiver
- Consult the dealer or an experienced radio/TV contractor for help.

Warning: Changes or modifications not expressly approved by Ecolink Intelligent Technology Inc. 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 la norme d'Industrie Canada exempts de licence RSS. Son fonctionnement est soumis aux deux conditions suivantes: (1) c'et appareil ne peut pas provoquer d'interférences, et (2) c'et appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de la dispositif.

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## Warranty

Ecolink Intelligent Technology Inc. warrants that for a period of 3 years from the date of purchase that this product is free from defects in material and workmanship. 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.

If there is a defect in materials and workmanship under normal use within the warranty period Ecolink Intelligent Technology Inc. shall, at its option, repair or replace the defective equipment upon return of the equipment to the original point of purchase.

The foregoing warranty shall apply only to the original buyer, and 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 Intelligent Technology Inc. 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. The maximum liability for Ecolink Intelligent Technology Inc. under all circumstances for any warranty issue shall be limited to a replacement of the defective product. It is recommended that the customer check their equipment on a regular basis for proper operation.



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