

Installation and Operation Manual
STI Universal Sensor

Model: STI-34401

Thank you for purchasing this fine product. Your satisfaction is very important to us. Please take the time to read this manual carefully to get the most from your new product.

How The Product Works

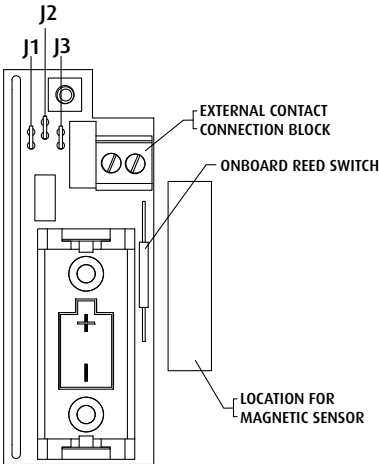
The STI Universal Sensor has a reed switch, tilt switch and terminals for an external switch input. Each sensor configuration sends its own unique signal to the STI receiver. Jumper wires must be configured for the appropriate sensor application (door sensor, mailbox alert, garage door sentry, etc).

Sensor Configurations (MAGNETIC, TILT, EXTERNAL):

The Magnetic Sensor, Tilt Sensor and External Terminals each have their own Sensor Configuration, and each STI Universal Sensor has its own ID number to ensure there is no duplication of wireless signals to an STI receiver. To allow multiple Universal Sensors with the same Sensor Configuration, STI receivers interpret each Sensor Configuration and ID number pair as a separate and unique input signal.

The Universal Sensor transmits only a single Sensor Configuration (MAGNETIC, TILT, or EXTERNAL) depending upon how the jumper wires are configured. The sensor will not react to other device changes if the jumper configuration is not set. For example, the magnetic sensor open and close changes will not be transmitted in the wireless message if the sensor is configured as a TILT SENSOR type.

Jumper Configurations:



Cut jumpers with "X", do not cut jumpers with "□".

	J1	J2	J3
Magnetic Sensor (supervised)	X	X	X
Tilt Sensor (supervised)	X	□	□
External Terminals (supervised)	X	□	X
Magnetic Sensor (not supervised)	□	X	□
Tilt Sensor (not supervised)	X	X	□
External Terminals (not supervised)	X	X	X

NOTE: To ensure jumpers do not reattach or short to other components, cut both jumper leads flush to PCB and remove jumper wire.

Universal Sensor Setup:

1. Open device using a flat head screwdriver in side case slot.
2. Configure the jumpers for the desired application (see Jumper Configurations).
3. Insert 3V lithium 123A size battery in the proper orientation.
4. Program the STI Universal Sensor into the STI receiver.

NOTE: Please refer to the STI receiver installation instructions.

5. Snap base into lid.

NOTE: Tamper switch spring automatically seats within the locator ring on the lid. Tamper alert is triggered when the spring releases identifying when case is opened/broken/ajar.

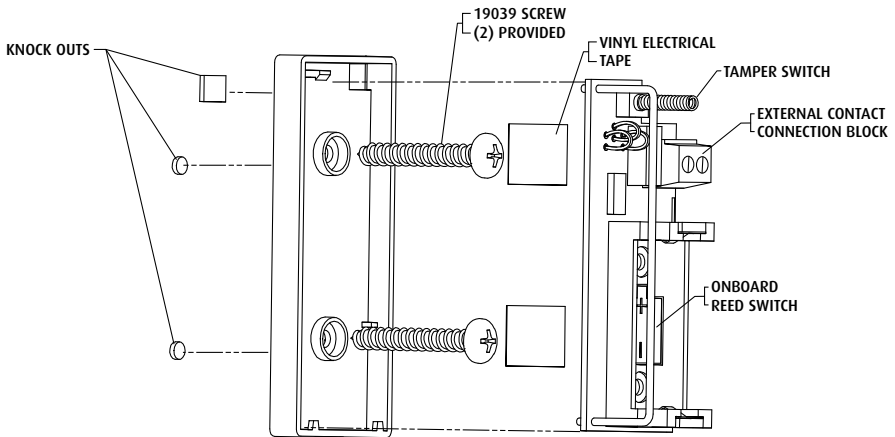
Testing:

Test the device for proper operation before permanently mounting.

Mounting:

OPTION 1: Mount with double sided tape (provided) to the back of the case.

OPTION 2: Remove the circuit board from the case bottom. Drill 1/8 inch holes through the case knock outs and in the mounting locations and apply the screws (provided). For added protection, cover metal screw heads on the inside of the case bottom with electrical tape to isolate the circuit board. Replace the circuit board in the case bottom.

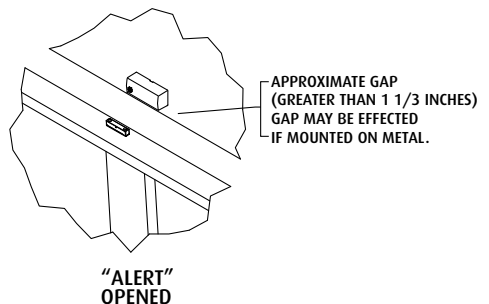
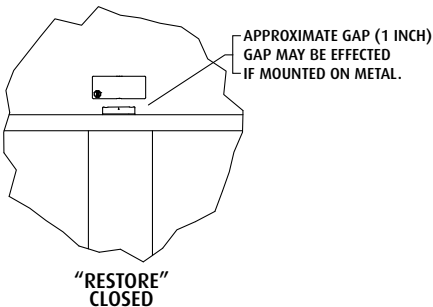


Operation:

Magnetic Sensor:

- Alert Signal – Magnet is over approximately 1 1/3 inches from the device.
- Restore Signal – Magnet is brought within approximately 1 inch from the device.

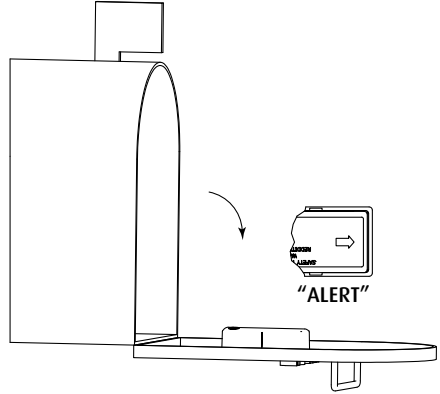
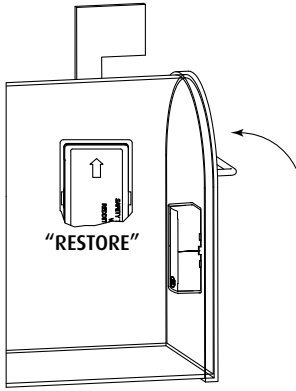
When using the Magnetic Sensor, the bottom case may be inserted into the top case in reverse depending on which direction the Magnetic Sensor should face.



Tilt Sensor:

- Alert Signal – Sensor is tilted more than 45° from vertical.
- Restore Signal – Sensor is tilted less than 45° from vertical.

When using the Tilt Sensor, the arrow on the bottom should point straight up in the non-triggered state.

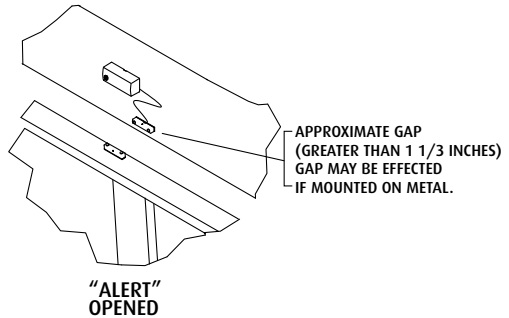
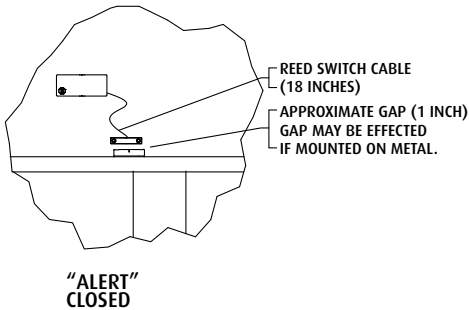


External Contacts:

- Alert Signal – Terminals must first have a **closed** circuit then an **open** circuit any time afterward will trigger an Alert signal.
- Restore Signal – Terminals have a **closed** circuit.

When using the External Terminals, remove the case knock out in the corner of the case bottom to insert sensor wires. Connect to external contact block.

NOTE: If mounted outdoors, use silicone sealant on the wire and screw hole knock outs.



NOTE: In any configuration, an Alert or Restore signal must be triggered for any STI receiver to acknowledge the device.

Sensor Trouble Detection:

If the STI Universal Sensor has a Low Battery or triggered Tamper Switch, the sensor will send a trouble signal to the receiver.

If the signal is out of range or there is a loss of communication with the receiver, the receiver will indicate a trouble condition between 12 and 24 hours from the time the signal was lost.

Important Notice:

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

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.
- 2) This device must accept any interference that may be received, including interference that may cause undesired operation.

Limited Warranty:

STI, Inc. warrants to the original consumer/purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for a period of one (1) year from the date of original purchase for use.

Model: 34401

FCC ID: TXL34401

IC: 6335A-34401

This product meets the applicable Industry Canada technical specifications.

Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada.



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