Installation and Operation Manual

STI Universal Sensor

Model: STI-34401

Thank you for purchasing this fine product. We want you to know that your satisfaction is very important to us. We suggest you take the time to read this manual carefully to get the most from your new product.

HOW THE PRODUCT WORKS

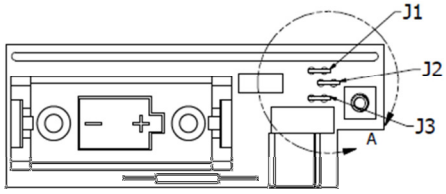
The STI Universal Sensor has a reed switch, tilt switch and terminals for an external switch input read by STI receivers as the 3 different “Sensor Configuration" transmissions. Jumper wires must be configured for the appropriate sensor application (door sensor, mailbox alert, garage door sentry, etc).

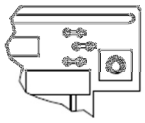
Sensor Configurations (MAGNETIC, TILT, EXTERNAL):

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.

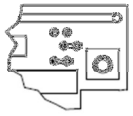
The U-Sensor transmits only a single Sensor Configuration (MAGNETIC, TILT, or EXTERNAL) depending upon how the jumper wires are configured. The sensor will not react to other device changes if the jumper configuration is not set. For example, the magnetic sensor open and close changes will not be transmitted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

Jumper Configurations:

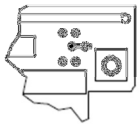




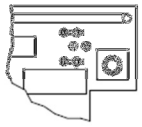
MAGNETIC SENSOR with supervision signal (J1, J2, J3)



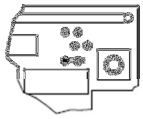
TILT SENSOR with supervision signal (J2, J3)



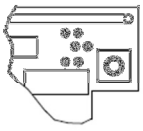
EXTERNAL SENSOR INPUT with supervision signal (J2)



MAGNETIC SENSOR without supervison signal (J1, J3)



TILT SENSOR without supervision signal (J3)



EXTERNAL SENSOR INPUT without supervision signal (NONE)

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U-Sensor Setup:

1. Open device using a flat head screwdriver in the slot under the case.
2. Configure the jumpers for the desired application. (See Jumper Configuration)
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 for this.
5. Place the Tamper Switch Spring onto tamper switch after jumpers have been configured and battery has been inserted. Tamper alert is triggered when spring releases. Intended to identify when case is opened/broken/ajar.
6. Snap base into lid. Ensure that Tamper Switch Spring is within the Spring Locator circle on the lid and compresses when the lid is snapped shut.

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" 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.

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.

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

When using the External Terminals, remove the case knock out in the corner of the case bottom to insert sensor wires.
(Note: Do not use outdoors when using External Terminals)

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Operation:

Magnetic Sensor:

- Alert Signal – Magnet is over 1-1/2" from the "►" shape. (typically)
- Restore Signal – Magnet is brought within 1-1/4" from the "►" shape. (typically)

Tilt Sensor:

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

Ext. Sensor Input:

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

NOTE: An Alert or Restore signal must be triggered for an STI receiver to acknowledge any one of the 3 Sensor Configurations.

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 there is a Loss of Communication with the receiver, the receiver also will indicate a trouble condition with that device.

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.

Model: 34401
FCC ID: TXL34401
IC: 6550A-34401

This product meets the applicable Industry Canada technical specifications.
Le présent materiel est conforme aux specifications techniques applicables d'Industrie Canada.