Quick Start Guide

I/O Linc™ – INSTEON® Low Voltage/Contact Closure
Interface (1 In/1 Out)
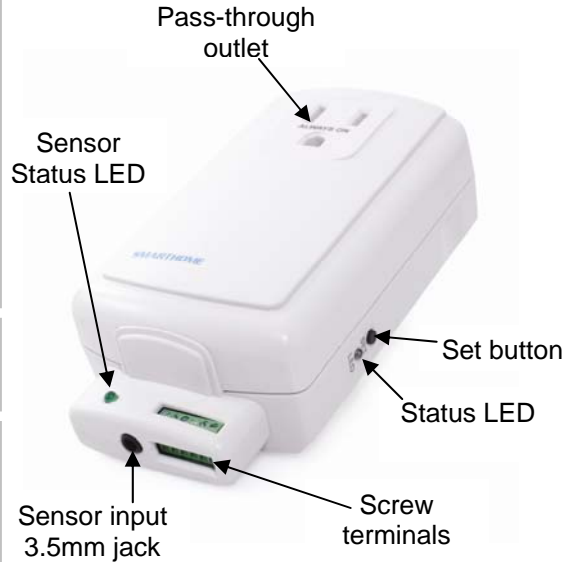
Model: 2450

Introduction

Monitor and control any low voltage devices such as contact closures, electric door strikes and alarm sensors as part of your INSTEON home automation network. Plus, use the built-in single-pole double-throw (SPDT) switch to connect any low-voltage powered device for continuous or momentary operation. Create your own remote-control door lock using a door strike and power supply or use a security sensor to trigger INSTEON controlled lights to turn on or off. I/O Linc acts as a repeater for all powerline INSTEON signals, is compatible with INSTEON and X10 products and has a pass-through outlet for other AC devices.

Items Required

- Sensor wire: 20-22 gauge recommended

I/O Linc Screw Terminals

5V	GND	Sense	N/C	N/O	Common
5 Volts, 10mA	Ground	Sensor input	Normally closed	Normally open	Switches between N/O and N/C

Pass-through outlet

Sensor Status LED

Set button

Status LED

Sensor input 3.5mm jack

Screw terminals

Using a Sensor as an INSTEON Controller

1) Plug I/O Linc into an unswitched outlet near your sensor.
   The I/O Linc Status LED should turn on.
2) Connect one sensor wire to the I/O Linc GND terminal (see Figure 1).
3) Connect the other sensor wire to the I/O Linc Sensor terminal.
4) Put your sensor in the state that will trigger an ON command from I/O Linc.
   The I/O Linc Sensor Status LED should turn on if the sensor is closed or turn off it the sensor is open.
5) Set I/O Linc to linking mode* by pressing and holding the Set button until it beeps (3 seconds).
   The white I/O Linc Status LED should begin blinking.
6) Press and hold the responder's Set button for 3 seconds.
   The white I/O Linc Status LED should stop blinking and turn on solid.
7) Confirm that linking was successful by tapping the Set button on I/O Linc.
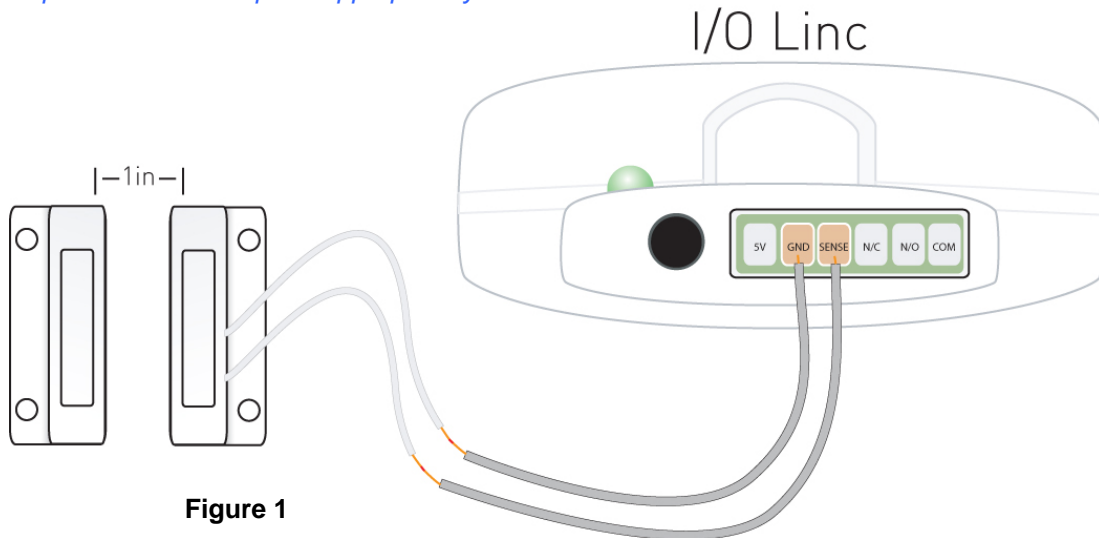   *The responder should respond appropriately.*

I/O Linc

|—1in—|

5V GND SENSE N/C N/O COM

Figure 1

*Setup modes will automatically time out after 4 minutes.

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Controlling a Door Strike from an INSTEON Device

This mode is used for controlling a normally open momentary switch or button, such as using an INSTEON controller to trigger a door strike.

NOTE: These instructions assume your output relay set is set to latching mode (default).*

1) Plug I/O Linc into a convenient unswitched outlet.
     The I/O Linc Status LED should turn on.
2) Using the Set button, ensure the relay is closed.
     The I/O Linc Status LED should be bright when the relay is closed and dim when open.

Link your INSTEON Controller(s) to I/O Linc

3) Set the controller to Linking Mode.** (For most controllers, press and hold an On or Scene button for 10 seconds or the Set button for 3 seconds.)
4) Press and hold the Set button on I/O Linc until it beeps (3 seconds).
5) Repeat steps 3 and 4 for each controller you want to use to control I/O Linc.

Set the Output Relay to Momentary Mode A

6) Set I/O Linc to linking mode by pressing and holding the Set button until it beeps (3 seconds).
     The I/O Linc Status LED should begin blinking.
7) Set I/O Linc to unlinking mode by pressing and holding the Set button until it beeps again (3 seconds).
     The I/O Linc Status LED should continue blinking.
8) Set I/O Linc to output relay programming mode by pressing and holding the Set button until it beeps a third time (3 seconds).
     The I/O Linc Status LED should stop blinking and turn on solid.
9) Connect the door strike and power supply to I/O Linc (see Figure 2).
10) Test by either tapping the I/O Linc Set button or the button you linked to on the controller.
     The I/O Linc relay should close and then reopen after a few seconds.
11) For instructions on how to set up the following features, consult the Owner's Manual.
     a) Increase the amount of time the momentary relay is closed (from 2 seconds up to 25 seconds).
     b) Trigger your momentary closure with an OFF command only.
     c) Trigger your momentary closure with both ON and OFF commands.
     d) Use the I/O Linc sensor input to determine whether the I/O Linc output will respond.

To be sure I/O Linc is in latching mode, tap the Set button and wait a few seconds. If you only hear one click, I/O Linc is in latching mode. If you hear two clicks, I/O Linc is in a momentary mode; return I/O Linc to latching mode or perform a factory reset (see Owner's Manual).
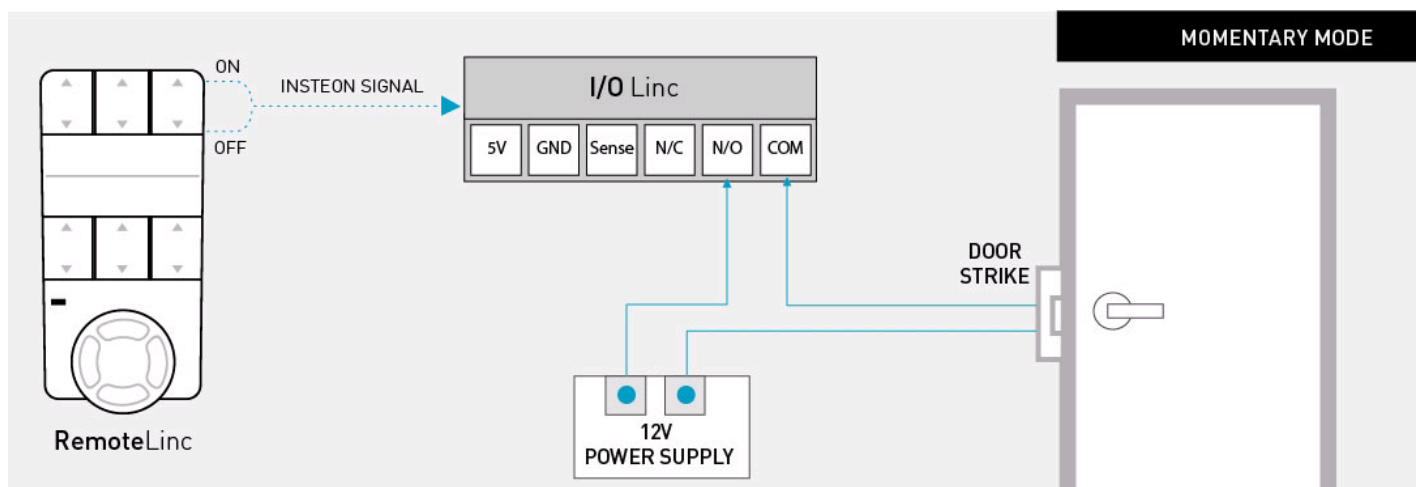

Figure 2

Complete Instructions, Troubleshooting and Tech Support

Owner's Manual: www.smarthome.com/manuals/2450.pdf
Call: INSTEON Support Line at 800-762-7845

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