

Stanza™

Installation Instructions

Occupant Copy

Please Read

SZ-IO Control Interface

PELV (Class 2: USA) Device

15 - 24 V $\overline{=}$ 300 mA

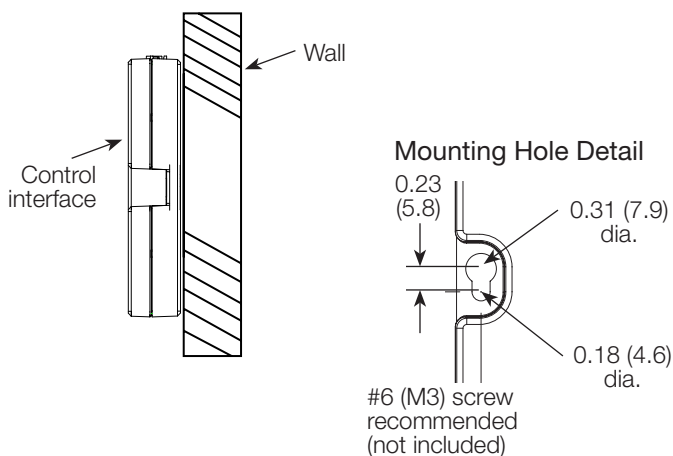
Features

- Integrates a *Stanza* lighting control system with equipment that has contact closure I/O, including:
 - Occupant and vacancy sensors
 - Motorized window treatments
 - AV equipment
 - Security systems
 - Thermostats
- Provides five inputs and five outputs.
- Provides both normally open (NO) and normally closed (NC) dry contacts.
- Using the inputs, contact closure outputs from other equipment can operate *Stanza* devices to:
 - Select scenes.
 - Turn lights on or off.
- Using the outputs, other *Stanza* devices can:
 - Trigger outputs to control other equipment.
 - Provide status feedback to other equipment.

Mounting

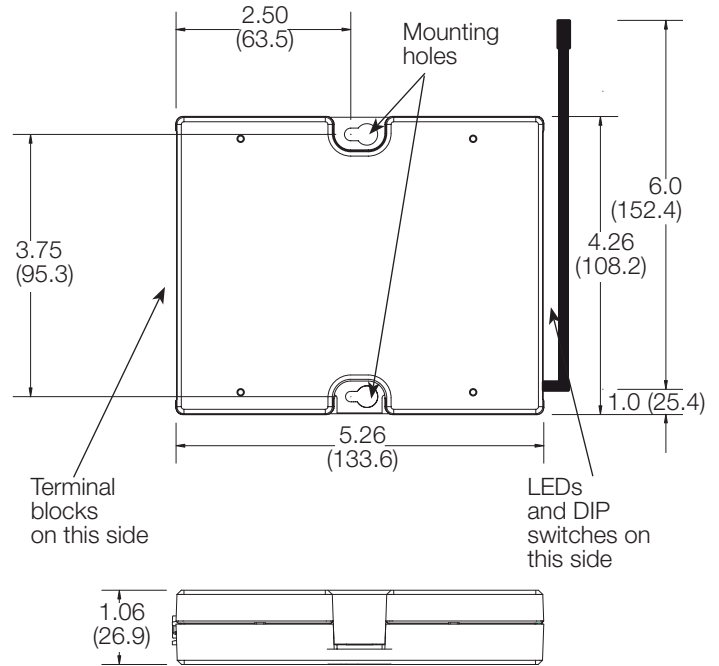
1. Mount the interface directly on a wall, as shown in the Mounting Diagram, using two #6 (M3) screws (not included). When mounting, provide sufficient space for the antenna and connecting cables. Mount in an accessible location for convenient access to DIP switches, LEDs, and terminal blocks. The unit cannot be mounted in a full metal enclosure. If mounting in a metal enclosure is necessary, antenna must protrude out of a knockout or other hole. The antenna may not be removed or mounted remotely.
2. Connect wiring as shown in the Wiring Diagram. Use wire sizes as specified in the Wiring Diagram.

Mounting Diagram



Dimensions

Dimensions are in inches (mm).

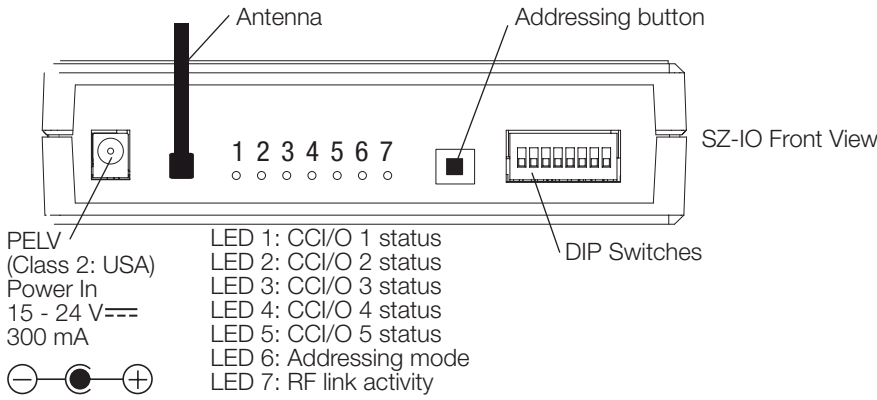


FCC Information

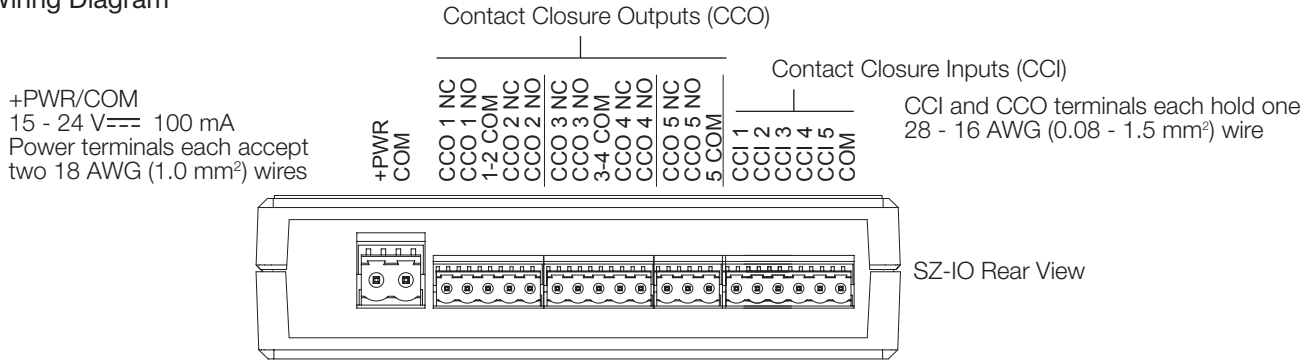
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. 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.
- Caution:** Changes or modifications not expressly approved by Lutron Electronics Co. could void the user's authority to operate this equipment. Operation is subject to the following: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Low-Voltage PELV (Class 2: USA) Wiring



Wiring Diagram



Contact Closure Ratings

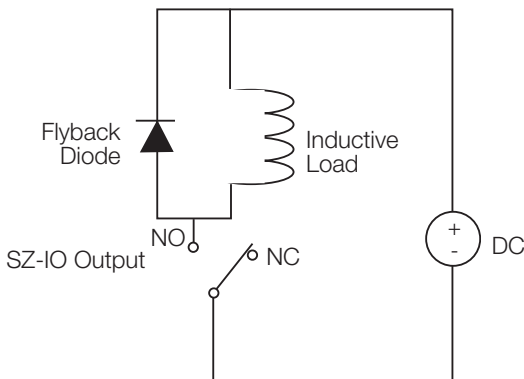
Five Input Terminals:

- Accept maintained inputs or momentary inputs with 40 msec minimum pulse times.
- Off-state leakage current must be less than 100 μ A.
- Open circuit voltage: 24 V \equiv maximum.
- Inputs must be dry contact closure, solid state, open collector, or active-low (NPN)/active high (PNP) output.
 - Open collector NPN or active-low on-state voltage must be less than 2 V \equiv and sink 3.0 mA.
 - Open collector PNP or active-high on-state voltage must be greater than 12 V \equiv and source 3.0 mA.
- 250 ft. (76 m) maximum from external device to interface

Five Output Terminals:

- Provide maintained or momentary (programmable 0.25- to 10-second) outputs.
- The SZ-IO is not rated to control unclamped, inductive loads. Inductive loads include, but are not limited to, relays, solenoids, and motors. To control these types of equipment, a flyback diode must be used (DC voltages only). See Inductive Load Wiring Diagram.
- Relays are non-latching and de-energize if power is lost.
- 250 ft. (76 m) maximum from interface to external device.
- Output current on CCO terminals is rated as follows:

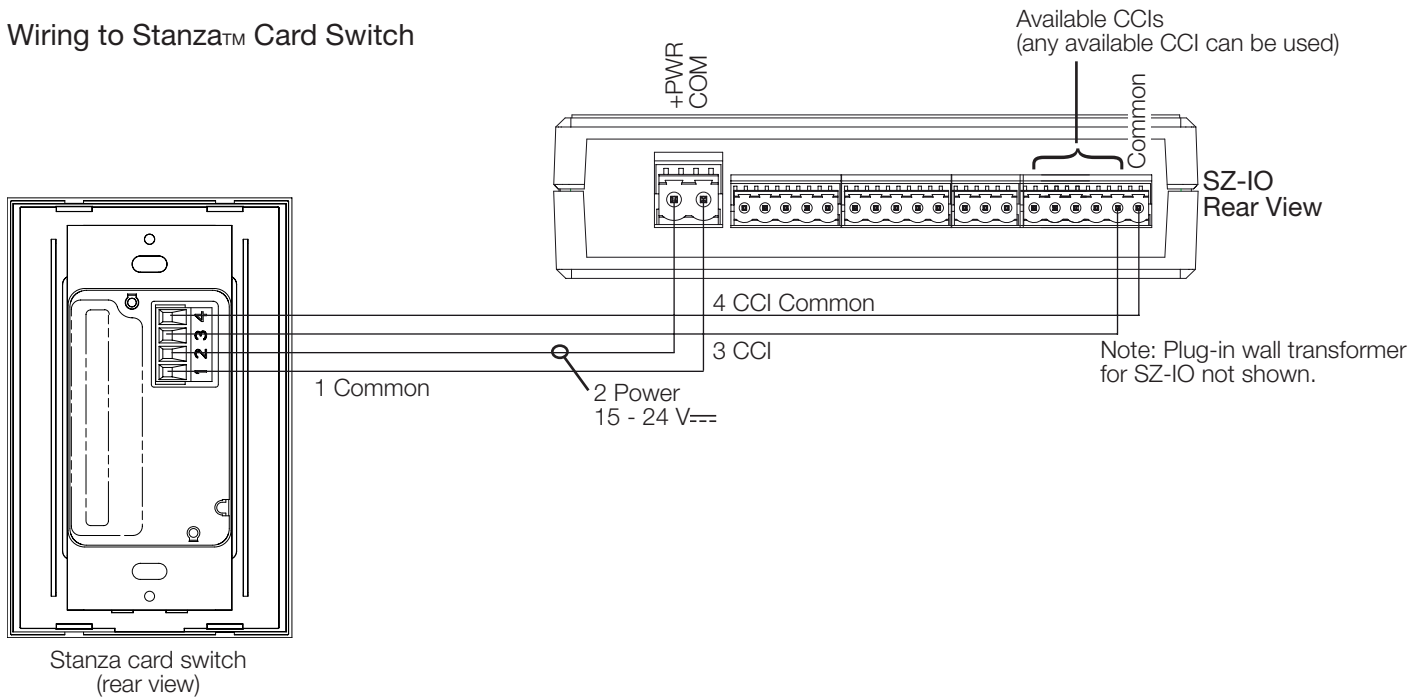
Inductive Load Wiring Diagram



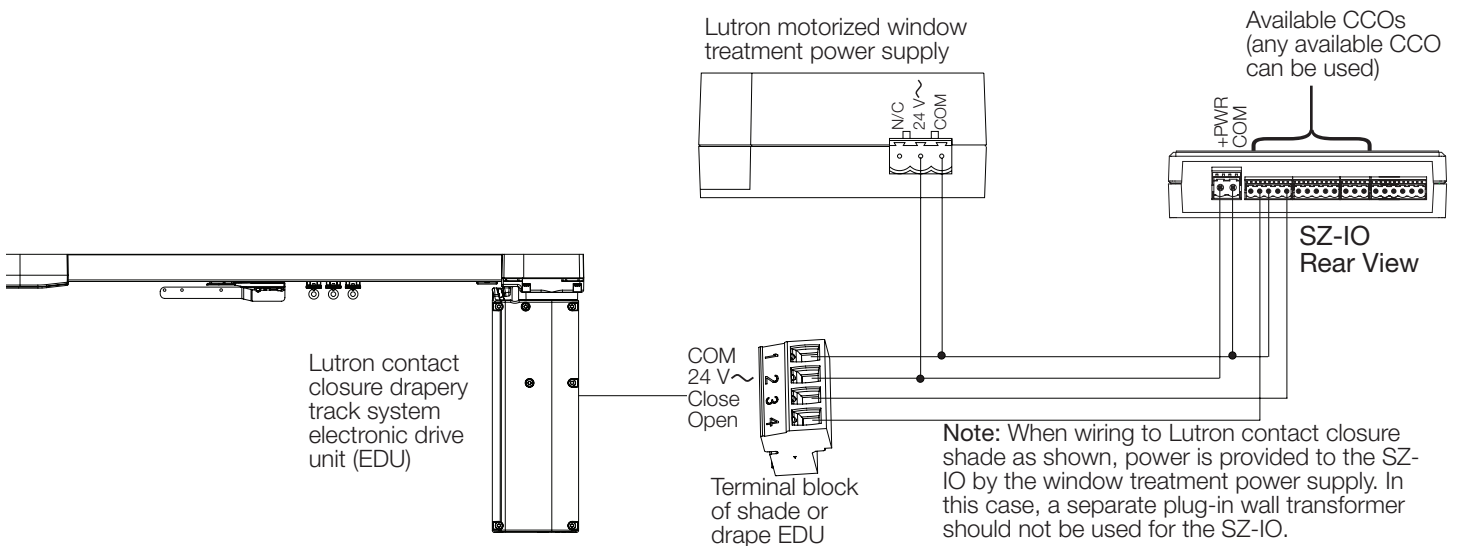
| Voltage across CCO | Max. CCO Resistive Load |
|--------------------|-------------------------|
| 0 - 24 V \equiv | 1.0 A each |
| 0 - 24 V \sim | 0.5 A each |

Wiring Examples

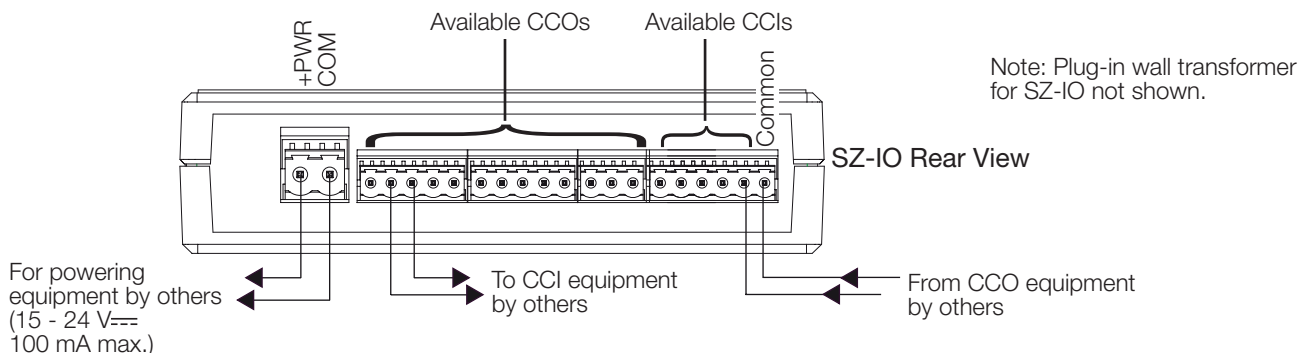
Wiring to Stanza™ Card Switch



Wiring to Stanza™ Contact Closure Shade



Wiring to/from Equipment by Others



Addressing

Up to 3 SZ-IO control interfaces may be used per system (additional interfaces may be used if an SZ-CI-PRG is present in the system). The SZ-IO is addressed and programmed using the Stanza™ PC software tool. Each SZ-IO must be assigned an address in the system.

Operation

The SZ-IO receives its operating settings during system startup. A device database containing settings is transferred to the SZ-IO after it has been addressed. This database includes settings for:

- CCO behavior (maintained vs. momentary)
- Momentary pulse time
- CCI programming action
- System presets


LED Feedback

The SZ-IO provides 7 LEDs for user feedback:

Status LEDs

LEDs 1 through 5 provide feedback for the CCOs and CCIs. The display mode (CCO vs. CCI status) depends on the position of DIP switch 7: The LED lights when the CCO is active or when the CCI is closed.

 Switch up (on): CCI status displayed

 Switch down (off): CCO status displayed

Addressing Mode LED

LED 6 will blink during addressing. A slow blink (on for 3 seconds every 4 seconds) indicates an unaddressed device. A fast blink (once per second) indicates an addressed device. When not in addressing mode, this LED is off.

RF Link Activity LED

LED 7 will blink when the SZ-IO receives or transmits an RF packet.

Returning the SZ-IO to Factory Settings

1. Triple-tap the addressing (ADDR) button quickly (within 1 second).
2. Press and hold the addressing button for 5 seconds (until all device LEDs flash).
3. Triple-tap the addressing button quickly again. All LEDs will flash rapidly for 3 seconds.





Notes

- Returning the SZ-IO to factory settings will clear all programming from the SZ-IO, and will prevent it from being controlled over RF from a keypad or other control interface.
- After being returned to factory defaults, the SZ-IO will need to be readdressed as part of a system.

Diagnostic Mode and DIP Switch Settings

Diagnostic mode allows the user to override the contact closure outputs (CCOs) of the device.

DIP Switch Settings

| Switch # | Mode | LED Display Shows |
|---|------------|-------------------|
| 6 7 | | |
|  | Normal | Outputs |
|  | Normal | Inputs |
|  | Diagnostic | Outputs |
|  | Diagnostic | Inputs |

 Switch up (On)

 Switch down (Off)

Note: In diagnostic mode, DIP switches 1-5 set the override state of the outputs.

Diagnostic Mode Operation

1. **Enter diagnostic mode.** Move DIP switch 6 to the on (up) position. LEDs 6 and 7 will flash together (once per second) while the unit is in diagnostic mode.
2. **Select CCOs to override.** Use DIP switches 1 through 5 to select which CCOs to close when the addressing (ADDR) button is pressed. (The DIP switch number corresponds to the CCO it controls.)
3. **Activate the CCOs.** Press the addressing button to activate the CCOs you set using the DIP switches in the previous step. The CCOs will remain active as long as the button is pressed.
4. **Exit diagnostic mode.** Move DIP switch 6 to the off (down) position. LEDs 6 and 7 will stop flashing together.

Note: Diagnostic mode will exit automatically after 5 minutes of inactivity. Pressing the addressing button will reset the inactivity time and the unit will remain in diagnostic mode.

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Central/South America: +1.610.282.6701

Warranty: 1-year limited warranty standard. 2-year parts and labor warranty, with 8-year pro-rated parts replacement on systems that include factory startup.

For complete warranty details, see the Start-Up/Warranty document provided with your Stanza system specification submittal information.

These products may be covered under one or more of the following U.S. patents: 5,838,226; 5,848,054; 5,905,442; 6,687,487; 6,803,728; and corresponding foreign patents. U.S. and foreign patents pending. Lutron and the sunburst logo are registered trademarks and Stanza is a trademark of Lutron Electronics Co., Inc. © 2008 Lutron Electronics Co., Inc.

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