Sivoia QS Smart Panel Installation Guide - Please read before installing

Important Notes
1. Please follow instructions or embedded WIZ-PS-250W Installation Guide (PN 14005) when installing a device.
2. Wiring work and installation must comply with national and local electrical codes. Some installations may require a readily accessible disconnect device for incorporated safety purposes.
3. Measure final circuit breaker size at 15 A (a fusing device may be appropriate).
4. The product must be installed in a suitable location.
5. Ambient operating temperature: 32°F to 104°F (0°C to 40°C). Do not operate outside this range.

Prepare the Smart Panel
a. Remove the front cover: Loosen the 4 front cover screws, then slide the cover upward and lift it off.

Mount the Smart Panel
a. Mount the Smart Panel in a location that will remain accessible using one of the following methods (mounting hardware is not provided).

Surface-mount: Use the 3 keyholes in this side of the enclosure to install the Smart Panel on the wall. See illustrations for more information.

Mounting hardware provided.

Connect the Line Voltage

WARNING: NEVER USE ELECTRO-SHOCK. Cut the supply circuit breaker in the OFF position before wiring the terminal block. Failure to do so could result in death or serious injury.

a. Cable entry:
  - Remove the terminal block leads from the terminal block.
  - Install a strain relief device (not included) in the knockout hole.
  - Run the power cable through the strain relief to the input terminal blocks at the top left side of the enclosure.

b. Connection:
  - Strip 1/4 in (6 mm) of insulation from each conductor.
  - Tighten each terminal screw securely to 5 in-lb (0.5 N•m), and ensure there is no insulation inside the terminal block.

c. Reinforce the line voltage shield:
  - Install the shield in the bottom panel opening in the “L” using the original screws.

WARNING: NEVER USE ELECTRO-SHOCK. Do not energize or operate the device without the line voltage shield in place. Ensure all line voltage wiring and connections are enclosed behind the circuit board. Failure to follow these instructions could result in death or serious injury.

Connect Lutron Sivoia QS window treatments or lighting devices
NOTE: It is recommended that the first connection between a device and the central power module of the device after panel installation is complete. Brake limits and free operation should be validated immediately after power-up to ensure safe operation and proper commissioning.

a. Cable entry:
  - Remove knockout tabs from the left side of the enclosure as needed.
  - Install a strain relief device (not included) in each knockout hole as it is used.
  - Run the power cable through a Sivoia QS device through each strain relief.

b. Connection:

WARNING: NEVER USE ELECTRO-SHOCK AND FIRE. Do not interrupt power to a device before following these instructions to install power limit in death or serious injury.

- Strip 1/16 in (3 mm) of insulation from each conductor.
- Install the COM and L wires in the corresponding terminals (refer to the terminal labels at the power input receptacle on the circuit board), of each 4-pin terminal block (1 are provided, packaged separately) as shown.
- Tighten each terminal screw securely to 5 in-lb (0.5 N•m), and ensure there is no insulation inside the terminal block.
- Set the 4-pin terminal block to the right side of the enclosure.
- Plug the 4-pin terminal block into a power output receptacle.
- Install a strain relief to secure the cable where it enters the enclosure.

Rules for QS Link Wiring
- QS wiring is NEC Class 2/PELV. Follow all applicable local and national codes for proper wiring and installation.
- Power (+) and COM: 12-20 AWG (4.0–1.3 mm).
- Communication (+) and MUX: 24-26 AWG (0.5–0.7 mm)
- Each terminal must NEVER be connected between outputs.
- Maximum QS interconnection length: 200 ft (61 m).
- Maximum number of devices per QS panel (including lights & QS link communication) is limited to 2048 (256 x 8). More than 2048 devices may result in communication loss.
- Maximum number of devices powered per output: 50.
- Maximum total length of link wiring based on wire gauge:

<table>
<thead>
<tr>
<th>Maximum Number of Devices</th>
<th>Maximum Total Length of Link Wiring Based On Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>&lt;= 24 sq ft (1.80 sq m)</td>
</tr>
<tr>
<td>2</td>
<td>&lt;= 32 sq ft (3.0 sq m)</td>
</tr>
<tr>
<td>8</td>
<td>&lt;= 75 sq ft (0.69 sq m)</td>
</tr>
<tr>
<td>16</td>
<td>&lt;= 100 sq ft (0.92 sq m)</td>
</tr>
<tr>
<td>32</td>
<td>&lt;= 140 sq ft (1.3 sq m)</td>
</tr>
<tr>
<td>64</td>
<td>&lt;= 220 sq ft (2.2 sq m)</td>
</tr>
<tr>
<td>128</td>
<td>&lt;= 310 sq ft (2.2 sq m)</td>
</tr>
<tr>
<td>256</td>
<td>&lt;= 450 sq ft (2.8 sq m)</td>
</tr>
<tr>
<td>None</td>
<td>All outputs combined, must not exceed 200 ft (61 m)</td>
</tr>
</tbody>
</table>
- QS wiring is NEC Class 2/PELV. Follow all applicable local and national codes for proper wiring and installation.

Connect Multiple Smart Panels and other QS Devices

a. Cable entry:
  - Remove the required number of knockout tabs adjacent to the communication pass through receptacles (black Link) on the circuit board.
  - Install a strain relief (not included) in each knockout hole as it is used.
  - Run the power cable from a Sivoia QS device through each strain relief.
  - Install a strain relief (not included) in each knockout hole to be used.
  - Remove the required number of knockout tabs adjacent to the communication pass through receptacles (black Link) on the circuit board.
  - Insert the COM, MUX, and MUX wires into the corresponding terminals (refer to the terminal labels at the Link receptacle on the circuit board), of each 3-pin terminal block (2 are provided, packaged separately) as shown.
  - Tighten each terminal screw securely to 5 in-lb (0.5 N•m), and ensure there is no insulation inside the terminal block.
  - Set the 3-pin terminal block to the bottom of the enclosure.
  - Plug the 3-pin terminal block into the Link receptacles.
  - If the device will use wired communication, insert the MUX and MUX wires into the corresponding terminals (refer to the terminal labels at the power input receptacle on the circuit board), of the 4-pin terminal block as shown.
  - Tighten each terminal screw securely to 5 in-lb (0.5 N•m), and ensure there is no insulation inside the terminal block.
  - Set the 4-pin terminal block to the right side of the enclosure.
  - Plug the 4-pin terminal block into a power output receptacle.
  - Install a strain relief to secure the cable where it enters the enclosure.

Monitor, Verify, Diagnose Operation (with Power Modules Installed)

LEDs: The QS device LED indicator lights (A, B, C, D) are illuminating

- **Diagnostic LED** on: Indicates a device is ready to receive a data signal.
- **Diagnostic LED** off: Indicates a device is not ready to receive a data signal.

- **Link Diagnostic Mode** (system devices) is used when troubleshooting a device. There are 3 diagnostic modes. Each diagnostic mode is used when troubleshooting a device. All diagnostic modes are used simultaneously.
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