EcoSystem® with Shades Energi Savr Node™

Installation Instructions

QSN-2ECO-PS120
QSN-2ECO-PS120
120 V~ 60 Hz
5 A Max Input Current

Installation Instructions (Save these instructions)

Read and Follow all instructions.

Tools Required:
Wire Cutter/Stripper  Power Drill
Small Flat-Head Screwdriver  #2 Phillips Screwdriver

NOTE: Mounting hardware is not included due to the wide variety of wall materials. Customer should determine the appropriate mounting hardware for their specific needs.

Box Contents:
QSN-2ECO-PS120

Important Notes

1. All wiring must be in accordance with national and local electrical codes.
2. Note: Secondary wiring must be of type CL2, CL2P, CL2R, CL2X or other cable with equivalent or better electrical, mechanical, and flammability ratings in accordance with local and national electric code.
3. QSN-2ECO-PS120 must be installed by a qualified electrician.
4. Ambient operating temperature: 32 - 104 °F (0 - 40 °C), 0 - 90% humidity, non-condensing.
5. This product is intended for indoor use only. No maintenance required.
6. Separate over current protection is required to be provided in accordance with Canadian Electrical Code, Part 1.
7. For continued protection against fire, replace only with the same type and rating of fuse. (Littelfuse 5 X 20 mm fast-acting fuse 216 P series 2,5 A)
EcoSystem® with Shades Energi Savr Node™

System Overview

Power Input
120 V

- QS Shades/Draperies (up to 10)
- QS keypad
- Emergency Contact Closure Input
- Programmable Contact Closure Input
- Wired EcoSystem Daylight Sensors (up to 4)
- Wired EcoSystem Occupancy Sensors (up to 4)
- Wired EcoSystem Wallstations or EcoSystem IR receivers (up to 4)
- (2) EcoSystem Digital Links (up to 64 ballasts each)
QSN-2ECO-PS120 Shades Module Parts Identification

1. **Removable Line Voltage Shield**

2. **120 V~ input terminal blocks**

3. **Spare fuses 5x20 mm 2.5 A**

4. **4-pin connector power and communication to Lutron lighting and shading devices**

5. **LED – Output status (1 per output, 10 outputs)**

6. **3-pin connector communication to additional power supplies**

7. **Diagnostic LED - Communication Link Traffic Status LED**

8. **All Lights On**
9. **All Lights Off**
10. **All Shades Open**
11. **All Shades Close**
12. **All Shades Clear**
4 Mounting the EcoSystem with Shades Energi Savr Node

4.1 Mount QSN-2ECO-PS120 using the following method (Mounting Hardware is not provided) Mount as shown below.

a. **Surface Mount** - Use the keyholes located on the back of the enclosure to fasten the QSN-2ECO-PS120 to the wall. Use fasteners rated for a 50 lb. (23 kg) load. See illustration of QSN-2ECO-PS120.

**NOTICE**

The equipment is air-cooled. Mount in a location where the vented cover will not be blocked. A minimum of 1 ft. (300 mm) is necessary.

5 Power Wiring

5.1 Remove the high voltage barrier that covers the input power terminal block assembly (upper right corner).

**WARNING**

SHOCK HAZARD. Risk of serious injury or death. Disconnect input power before servicing.

5.2 Connect 120 V~ power wiring into the QSN-2ECO-PS120.

Remove one of the knockout tabs on the top right side of the enclosure near the input terminal blocks. Insert a strain relief into the knockout hole. Run the power wire through the strain relief (not included) to the input terminal blocks at the top right side of the panel. Tighten terminal blocks to 3.5 to 5 in-lbs. (0.4-0.6 N•m).

**WARNING**

SHOCK HAZARD. Risk of serious injury or death. Locate and lock the supply breaker in the OFF position before wiring to the terminal blocks.

**Note:** Maximum of 1 QSN-2ECO-PS120 per 15 A Breaker. Maximum of 2 QSN-2ECO-PS120 per 20 A Breaker. Maximum feed breaker size of 30 Amps. Use only High-Magnetic breakers.
The following Link rules must be observed for proper operation.

- Maximum of 100 devices (such as a GRAFIK Eye® QS, seeTouch® QS keypad, smart panel power supply [QSPS-P1-10-60], or Sivoia® QS shade / drapery drive unit).
- A QSN-2ECO-PS120 counts as two power draw units.
- Maximum of 100 zones - such as a Sivoia QS shade / drapery drive unit, or a lighting zone on a GRAFIK Eye QS.
- Maximum 2000 ft (600 m) of cable connecting all QSN-2ECO-PS120 panels.
- Maximum 2000 ft (600 m) of cable to devices wired to each QSN-2ECO-PS120.
- Only use cable with at least one twisted/shielded pair for communications (MUX and MUX).

**Note:** Secondary wiring must be of type CL2, CL2P, CL2R, CL2X or other cable with equivalent or better electrical, mechanical, and flammability ratings in accordance with local and national electric code.

### QSN-2ECO-PS120 Wiring Guidelines for Shade Module Outputs (x10)

<table>
<thead>
<tr>
<th>Shades + Controls</th>
<th>Maximum devices per output</th>
<th>Maximum distance per output based on wire gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>12 AWG 4 mm²</td>
</tr>
<tr>
<td>None</td>
<td>Up to 50 power draw units</td>
<td>1250 ft (375 m)</td>
</tr>
<tr>
<td>None</td>
<td>Up to 25 power draw units</td>
<td>2000 ft (600 m)</td>
</tr>
<tr>
<td>1 Sivoia QS shade or drapery</td>
<td></td>
<td>500 ft (150 m)</td>
</tr>
<tr>
<td>2 Sivoia QS roller 64, ≤ 30 sq ft (2.75 sq m) each</td>
<td>1 power draw unit</td>
<td>200 ft (60 m)</td>
</tr>
<tr>
<td>3 Sivoia QS roller 64, ≤ 20 sq ft (1.8 sq m) each</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Sivoia QS roller 100, ≤ 50 sq ft (4.6 sq m) each</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### QSN-2ECO-PS120 Wiring Guidelines for Light Module Output

<table>
<thead>
<tr>
<th>Controls</th>
<th>Maximum devices per one output</th>
<th>Maximum distance per one output based on wire gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to 30 power draw units</td>
<td>12 AWG 4 mm²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 ft (600 m)</td>
</tr>
</tbody>
</table>
QS Link Wiring Rules

* +24V should NEVER be connected between devices that supply PDUs.
6.1 Example: Multiple shades per output

Sivoia QS roller 64, 25 sq. ft. (2.25 sq. m)

Sivoia QS roller 64, 25 sq. ft. (2.25 sq. m)

Up to 50 ft (15 m) of #18 AWG (1 mm²)
4-conductor twisted/shielded wire

GRAFIK Eye® QS

seeTouch® QS

Up to 250 ft (75 m) of #18 AWG (1 mm²)
4-conductor twisted/shielded wire
6.2 Example: One shade per output

Sivoia QS roller 64, 25 sq. ft. (2.25 sq. m)

Up to 250 ft (75 m) of #18 AWG (1 mm²) 4-conductor twisted/shielded wire

Sivoia QS roller 64, 25 sq. ft. (2.25 sq. m)

Up to 100 ft (30 m) of #18 AWG (1 mm²) 4-conductor twisted/shielded wire

GRAFIK Eye® QS

Up to 250 ft (75 m) of #18 AWG (1 mm²) 4-conductor twisted/shielded wire

seeTouch® QS
7.1 Run low voltage wire into the QSN-2ECO-PS120 shades module

Remove as many knockout tabs as necessary from the left side of the enclosure and insert strain reliefs.

Run the low-voltage communication wiring from the Lutron QS shade and QS lighting devices through the strain reliefs to the terminal blocks.

Strip insulation wire so that .25 in. (7 mm) of bare wire is exposed. Make sure to tighten the screws and that no insulation is inside of the terminal block.
7.2 Connecting multiple QSN-2ECO-PS120 shade modules

Use the two 3-pin terminal blocks when connecting multiple QSN-2ECO-PS120 panels.

A Device Link
4 - conductor power and communications to devices
Max 2,000 ft. (600 m) per QSN-2ECO-PS120

B Panel Link
3 - conductor communications
Max 2,000 ft. (600 m) connecting all QSN-2ECO-PS120 panels
8 Shade Module Diagnostics

The QSN-2ECO-PS120 shade module provides built-in diagnostics to help troubleshoot and verify your installation.

8.1 Output status LEDs

Each output has a status LED to indicate if the output is properly powered. If an output becomes overloaded, its status LED will blink to indicate the fault condition. Press the “Power Supply Clear” button after the fault condition has been cleared and the LED will stop blinking.

A Output status LEDs

If an output status LED has turned off, the fuse will need to be replaced. The QSN-2ECO-PS120 comes with two spare 5x20 mm 2.5A fuses.
### Shade Module Diagnostics (continued)

The QSN-2ECO-PS120 shade module provides built-in diagnostics to help troubleshoot and verify your installation.

#### 8.2 Communications Link LEDs

The QSN-2ECO-PS120 has two diagnostic LEDs for the communications link.

#### Diagnostic LEDs

- **Link Traffic**
  - This LED will blink green to indicate that devices are communicating.

- **Status LED**
  - This LED indicates that the panel is operating properly. If this LED is off, check your wiring.
8 Shade Module Diagnostics (continued)
The QSN-2ECO-PS120 shade module provides built-in diagnostics
to help troubleshoot and verify your installation.

8.3 Verify communications from QSN-2ECO-PS120
to QS devices

To verify the communications of your system, tap, hold (5 seconds), tap, hold (5 seconds) the “All Shades Open” button. The QSN-2ECO-PS120 shade module is now trying to communicate with all other Electronic Drive Units (EDUs). All EDUs communicating on the link will wiggle and flash their green LED quickly. If you discover any EDUs that are not wiggling, verify that the EDU is powered and wired properly. Link Diagnostics Mode will automatically time out after 10 minutes.

To exit Link Diagnostics Mode, press and hold the “All Shades Open” button for 5 seconds.
9 EcoSystem® Energi Savr Node™

9.1 QSN-2ECO-PS120 Light Module Link Wiring

EcoSystem link wiring can be wired as NEC® Class 1 or Class 2. See Application Note #142 “EcoSystem Bus Class 1 and Class 2 Lighting” at www.lutron.com for more details. Consult applicable national and local codes for compliance. Lutron recommends using two different colors for E1 and E2. This will prevent wiring mistakes where several link wires are co-located. Use the following instructions for wiring the EcoSystem link.

**WARNING! Danger of Shock. May result in serious injury or death.**
DO NOT WIRE WHEN LIVE! Switch off power to all power feeds via circuit breaker or isolator before wiring or servicing the EcoSystem Energi Savr Node unit. **Buttons and LEDs in the unit are used for troubleshooting. If wiring is exposed when accessing buttons and LEDs, the unit must be accessed by a certified electrician, following local codes.**

1. Turn power off.
2. Remove metal outer panel cover.
3. Remove internal plastic line voltage shield.
4. Wire the EcoSystem link from the EcoSystem terminals to all ballasts.
5. Reinstall internal plastic line voltage shield.
6. Turn on the circuit breaker or isolator to power up. The POWER LED lights green when powered up.
7. The ECO1 and ECO2 LEDs should flash green. See LED Behavior tables on page 11 for more details.
8. The EcoSystem Energi Savr Node unit outputs EcoSystem - compliant voltage levels (18 V). Use a voltage meter to confirm this voltage.
9. To verify functionality and wiring of EcoSystem digital link(s), press and hold the “Test” button until the “Test” LED flashes green*. You can press the ECO1 and ECO2 buttons to cycle each link through low-end, high-end, flashing, and off, respectively. Upon completion, press and hold the Test button until the “Test” LED turns off.
10. Turn power off.

* If “Test” LED flashes red, check all wiring.

<table>
<thead>
<tr>
<th>Wire gauge</th>
<th>Maximum EcoSystem-compliant link wire length</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 AWG (4.0 mm²)</td>
<td>2200 ft (671 m)</td>
</tr>
<tr>
<td>14 AWG (2.5 mm²)</td>
<td>1400 ft (427 m)</td>
</tr>
<tr>
<td>16 AWG (1.5 mm²)</td>
<td>900 ft (275 m)</td>
</tr>
<tr>
<td>18 AWG (1.0 mm²)</td>
<td>570 ft (175 m)</td>
</tr>
</tbody>
</table>
9 EcoSystem® Energi Savr Node™ (continued)

9.2 Input Group Wiring

Input group wiring
To connect a daylight sensor, occupant sensor, or infrared (IR) receiver, refer to the instruction sheets provided with the devices. The diagram for the input terminals is shown below.

WARNING! Danger of Shock. May result in serious injury or death. DO NOT WIRE WHEN LIVE! Switch off power to all power feeds via circuit breaker or isolator before wiring or servicing the EcoSystem Energi Savr Node unit.

Buttons and LEDs in the unit are used for troubleshooting. If wiring is exposed when accessing buttons and LEDs, the unit must be accessed by a certified electrician, following local codes.

Note: The EcoSystem Energi Savr Node unit accepts only one IR input (either daylight/IR sensor, IR receiver, or EcoSystem wallstation) per group.

Wiring: NEC® Class 2/PELV Inputs

![Diagram of input group wiring]

- **Input Group Wiring:**
  - 20 AWG to 12 AWG (0.5 mm² to 4.0 mm²)
  - Strip length: 1/4 in (6 mm)
  - Torque: 5 in-lbs (0.5 N·m)

* Note: Only one EcoSystem IR device may be connected per input. If the IR signal from a daylight sensor is connected, a wall control may not be connected to the same input, and vice-versa.

** Connect the gray wire on -R model occupancy sensors.

- **Group 1 shown:**
  - Com: Common
  - IR: IR Receiver*
  - Photo: Daylight Sensor
  - Occ: Occupancy Sensor

- **Group 2 shown:**
  - Com: Common
  - IR: IR Receiver*
  - Photo: Daylight Sensor
  - Occ: Occupancy Sensor

**NOTE:** There are four input groups. Each group has the same inputs as shown in the diagram below.
WARNING! Danger of Shock. May result in serious injury or death. DO NOT WIRE WHEN LIVE! Switch off power to all power feeds via circuit breaker or isolator before wiring or servicing the QSN-2ECO-PS120 unit.

- Contact Closure (Emergency and CCI) wiring is NEC® Class 2/PELV. Follow all applicable national and local codes for proper circuit separation and protection.
- CCI input must be used with dry contact closure devices.
- Emergency input is normally closed (NC). The QSN-2ECO-PS120 unit is shipped with a jumper pre-installed.
- If the Emergency input is open, the QSN-2ECO-PS120 unit will enter Emergency Mode, which will force all ballasts and/or drivers to their emergency level (100% by default) and disable control from inputs and QS devices. When the closure is restored, ballasts and/or drivers will return to their previous level.

**Note:** The QSN-2ECO-PS120 unit will default to Emergency Mode if the Emergency input is left open. If no Emergency contact input is required, please leave the wire jumper in the Emergency input terminals.

**Wiring: Contact Closure Inputs**

*EcoSystem with shades Energi Savr Node unit*

- Accepts 22 AWG–12 AWG (0.5 mm2–4.0 mm2) solid or stranded wires.
- Maximum wire run distance: 250 ft (76 m).
9.4 System Programming Connection

**WARNING! Danger of Shock. May result in serious injury or death.** DO NOT WIRE WHEN LIVE! Switch off power to all power feeds via circuit breaker or isolator before wiring or servicing the QSN-2ECO-PS120 unit.

Buttons and LEDs in the unit are used for troubleshooting. If wiring is exposed when accessing buttons and LEDs, the unit must be accessed by a certified electrician, following local codes.

- Wireless router only required for programming with an Apple iPod touch or iPhone.
- Wireless router may be removed for normal operation.
- Lutron recommends that an QSN-2ECO-PS120 unit be wired to an Ethernet jack in the space for ease of access and proximity to power for the wireless router.
- Works with any standard wireless router that supports multicast packets.
- Apple iPod touch or iPhone can program other Energi Savr Node units connected to an QSN-2ECO-PS120 unit via the QS Link (except when part of a Quantum® system).
- Energi Savr Node app is required to program QSN-2ECO-PS120 units (except when part of a Quantum system) and is available from the iTunes Store online marketplace.

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## Using LEDs to Troubleshoot

### WARNING! Danger of Shock. May result in serious injury or death. DO NOT WIRE WHEN LIVE!

Switch off power to all power feeds via circuit breaker or isolator before wiring or servicing the QSN-2ECO-PS120 unit.

Buttons and LEDs in the unit are used for troubleshooting. If wiring is exposed when accessing buttons and LEDs, the unit must be accessed by a certified electrician, following local codes.

### LED Behavior

<table>
<thead>
<tr>
<th>LED</th>
<th>Normal operation</th>
<th>Problem indicator</th>
<th>Probable cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR (Power)</td>
<td>Green: Continuous On</td>
<td>Green: 5 flashes per second</td>
<td>General system failure</td>
</tr>
<tr>
<td>ECO1</td>
<td>Green: 1 flash per second</td>
<td>Red: Continuous on</td>
<td>EcoSystem link externally shorted, miswired or link error</td>
</tr>
<tr>
<td>ECO2</td>
<td>Green: 1 flash per second</td>
<td>Red/Green: alternating 1 flash per second</td>
<td>Link slowed because of over-temperature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red: 1 flash per second</td>
<td>Link stopped because of over-temperature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red: 5 flashes per second</td>
<td>Emergency Mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red: 1 flash per 7 seconds</td>
<td>More than one supply powering link</td>
</tr>
<tr>
<td>QS (QS Link)</td>
<td>Green: 1 flash per second</td>
<td>Green: 1 flash per 7 seconds</td>
<td>Link disconnected, communication lost</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green: 5 flashes per second</td>
<td>Incorrect data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Off</td>
<td>No connection ever made</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Green: Flashing</td>
<td>Off</td>
<td>Ethernet not connected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yellow: Continuous On</td>
<td>Ethernet not connected</td>
</tr>
<tr>
<td>Test</td>
<td>Off</td>
<td>Red: 5 flashes per second</td>
<td>Test failed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green: 5 flashes per second</td>
<td>Test mode activated</td>
</tr>
<tr>
<td>Temp</td>
<td>Off</td>
<td>Red: 5 flashes per second</td>
<td>Over-temperature</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red: continuous On</td>
<td>Over-temperature, unit disabled</td>
</tr>
</tbody>
</table>

### Input LED Behavior

<table>
<thead>
<tr>
<th>LED</th>
<th>LED Behavior</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCC (Occupancy Sensor)</td>
<td>Continuous On</td>
<td>Sensor detects Vacancy</td>
</tr>
<tr>
<td></td>
<td>1 flash per second</td>
<td>Sensor detects Occupancy</td>
</tr>
<tr>
<td>PHOTO (Daylight Sensor)</td>
<td>Off</td>
<td>Sensor never detected</td>
</tr>
<tr>
<td>IR (Infrared Receiver)</td>
<td>Continuous On</td>
<td>Receiver is detected</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>IR button press detected</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Receiver never detected</td>
</tr>
<tr>
<td>CCI (Contact Closure Input)</td>
<td>Continuous On</td>
<td>Contact detected/open</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>Contact closed</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Contact never detected</td>
</tr>
<tr>
<td>Emerg (Emergency Contact Closure Input)</td>
<td>Continuous On</td>
<td>Normal operation/Contact Closed/Jumpered</td>
</tr>
<tr>
<td></td>
<td>Rapid flash</td>
<td>Emergency Mode/Contact Open/Jumpered</td>
</tr>
</tbody>
</table>

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QSN-2ECO-PS120 (continued)
Lutron Electronics Co., Inc.
One year limited warranty

For a period of one year from the date of purchase, and subject to the exclusions and restrictions described below, Lutron warrants each new unit to be free from manufacturing defects. Lutron will, at its option, either repair the defective unit or issue a credit equal to the purchase price of the defective unit to the Customer against the purchase price of comparable replacement part purchased from Lutron. Replacements for the unit provided by Lutron or, at its sole discretion, an approved vendor may be new, used, repaired, reconditioned, and/or made by a different manufacturer.

If the unit is part of a start-up by Lutron or a Lutron approved third party as part of a Lutron start-up lighting control system, the term of this warranty will be extended, and any credits against the cost of replacement parts will be prorated, in accordance with the warranty issued with the start-up system, except that the term of the unit’s warranty term will be measured from the date of its start-up.

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2. On-site labor costs to diagnose issues with, and to remove, repair, replace, adjust, reinstall and/or reprogram the unit or any of its components.
3. Equipment and parts external to the unit, including those sold or supplied by Lutron which may be covered by a separate warranty.
4. The cost of repairing or replacing other property that is damaged when the unit does not work properly, even if the damage was caused by the unit.

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NOTWITHSTANDING ANY DAMAGES THAT CUSTOMER MIGHT INCUR FOR ANY REASON WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ALL DIRECT DAMAGES AND ALL DAMAGES LISTED ABOVE), THE ENTIRE LIABILITY OF LUTRON AND OF ALL OTHER PARTIES UNDER THIS WARRANTY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, USE, REPAIR, OR REPLACEMENT OF THE UNIT, OR ANY AGREEMENT INCORPORATING THIS WARRANTY, AND CUSTOMER’S SOLE REMEDY FOR THE FOREGOING, WILL BE LIMITED TO THE AMOUNT PAID TO LUTRON BY CUSTOMER FOR THE UNIT. THE FOREGOING LIMITATIONS, EXCLUSIONS AND DISCLAIMERS WILL APPLY TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW, EVEN IF ANY REMEDY FAILS ITS ESSENTIAL PURPOSE.

TO MAKE A WARRANTY CLAIM

To make a warranty claim, promptly notify Lutron within the warranty period described above by calling the Lutron Technical Support Center at 1-800-523-9466. Lutron, in its sole discretion, will determine what action, if any, is required under this warranty. To better enable Lutron to address a warranty claim, have the unit’s serial and model numbers available when making the call. If Lutron, in its sole discretion, determines that an on-site visit or other remedial action is necessary, Lutron may send a Lutron Services Co. representative or coordinate the dispatch of a representative from a Lutron approved vendor to Customer’s site, and/or coordinate a warranty service call between Customer and a Lutron approved vendor.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.