

Please read this guide before installing.

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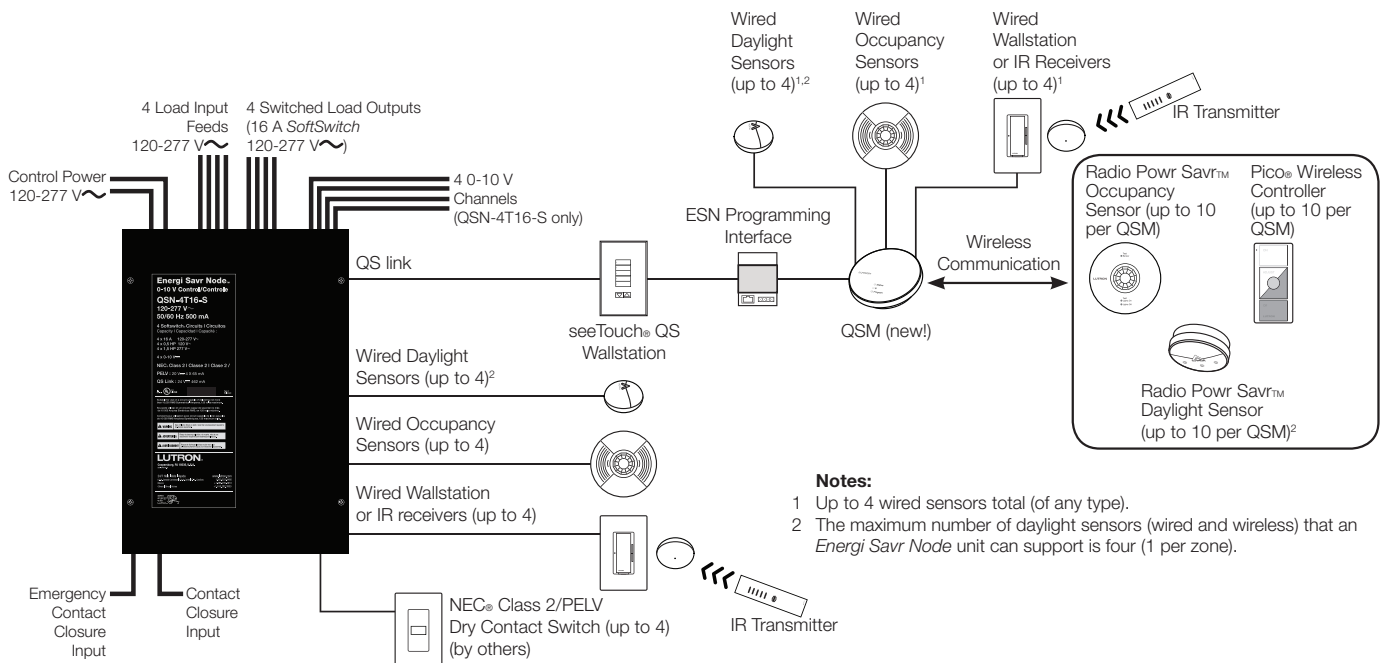
Control Panel Ratings

Control Power: 120-277 V~ 50/60 Hz 0.5 A
 Load Inputs: 120-277 V~ 50/60 Hz
 Output: 0-10 V: 50 mA sink per zone (QSN-4T16-S only)
SoftSwitch: 120-277 V~ 16 A per output
 0.5 HP @ 120 V~
 1.5 HP @ 277 V~
 Operating environment: 32 °F to 104 °F (0 °C to 40 °C)
 Maximum humidity: 90% non-condensing
 Thermal dissipation: 40 BTU/hr
 Input Groups: 20 V=== 65 mA per group
 QS link: 24 V=== 14 PDU (Power Draw Units) 432 mA

Model number overview

QSN-4T16-S (Energi Savr Node for 0-10 V)
QSN-4S16-S (SoftSwitch Energi Savr Node)
 QSN: *Energi Savr Node*
 4T: 4 output zones, 0-10 V fixture controller
 4S: 4 output zones, *SoftSwitch*
 16: 16 A switched outputs
 S: Surface mount

System Example



- Notes:**
- 1 Up to 4 wired sensors total (of any type).
 - 2 The maximum number of daylight sensors (wired and wireless) that an *Energi Savr Node* unit can support is four (1 per zone).

Programming Guide available at : www.lutron.com/softswitchenergisavrnode

Energi Savr Node™ 0-10 V/SoftSwitch® | Installation Guide

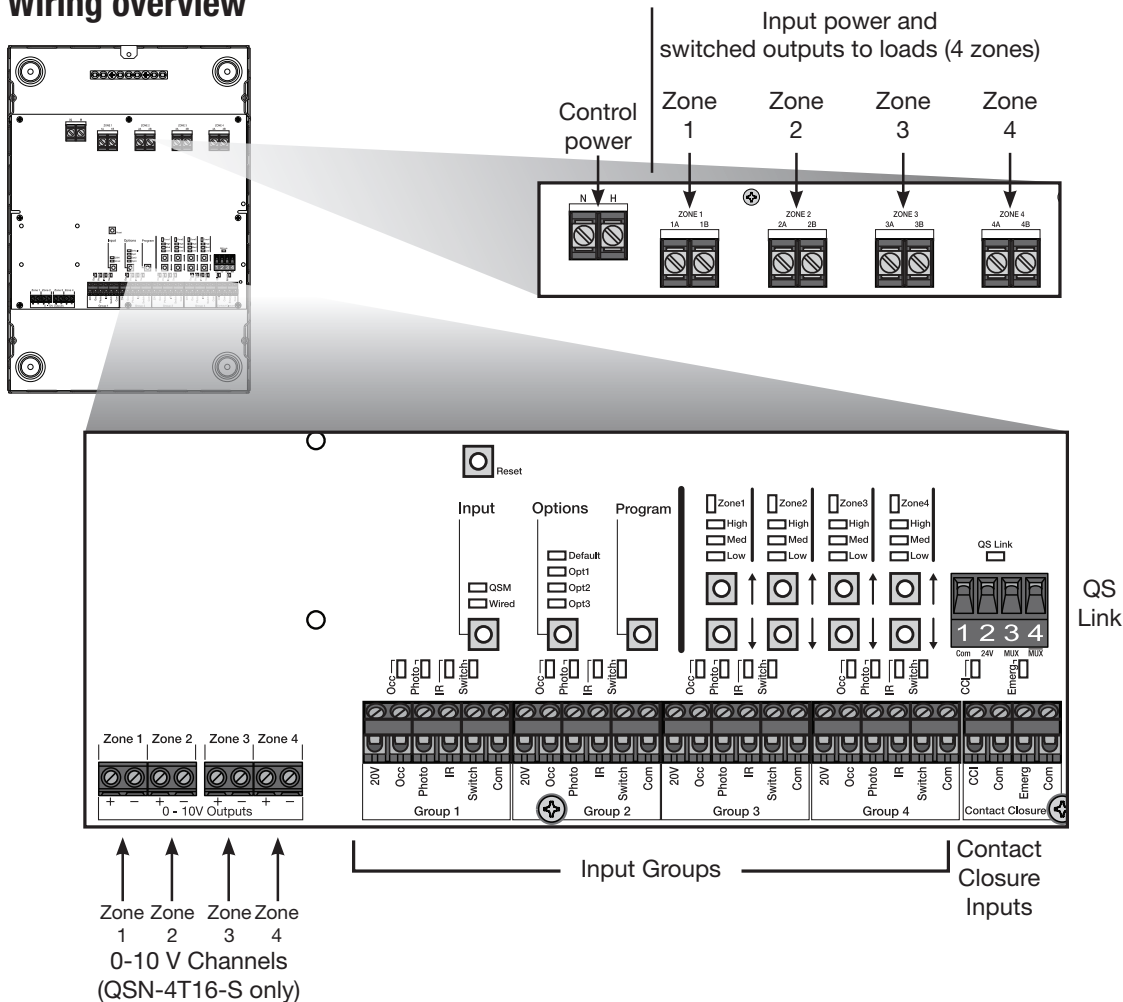
Product overview

An *Energi Savr Node* system consists of an *Energi Savr Node* unit, output loads, sensors, keypads, and QS interface devices. The diagram on the previous page shows a typical system topology.

- All lighting loads and *Energi Savr Node* units are powered by line voltage.
- The *Energi Savr Node* unit is limited to:
 - 4 Lutron® daylight sensors (models: EC-DIR-WH)
 - 4 Lutron occupant sensors (models: Lutron LOS series)
 - 4 Lutron infrared (IR) receivers (models: EC-DIR-WH, EC-IR-WH, CC-1BRL-WH, CC-4BRL-WH)
 - 4 NEC® Class 2/PELV dry contact switch inputs
 - 1 contact closure input
 - 1 emergency contact closure input (defaults to Emergency Mode in the absence of a contact closure across the input)
- The QS Link can have up to 100 zones and 100 devices.
- The *Energi Savr Node* unit counts as 1 device and 4 zones on the QS link.
- In a system with multiple *Energi Savr Node* units on a QS link, a maximum of 100 daylight sensors, 100 occupancy sensors, 100 IR receivers, and 100 Pico® wireless controllers are permitted.
- The *Energi Savr Node* unit supplies up to 14 Power Draw Units (PDUs) for powering accessory QS devices. Refer to accessory device documentation for power draw information.

Refer to the following step-by-step guide for proper *Energi Savr Node* unit installation.

Wiring overview



Step-by-step installation instructions

Step 1: Mounting the unit

Note: Mount the *Energi Savr Node* unit in a position where it can be easily located and accessed if service or troubleshooting is necessary.

- Remove metal outer panel cover.
- Remove internal plastic line voltage shield.
- For indoor use only!
- NEMA, Type 1 enclosure, IP20.
- Mount panel where audible noise is acceptable (internal relays click).
- Mount panel so line voltage wiring is at least 6 ft (1.8 m) from audio or electronic equipment and associated wiring (prevents radio frequency interference).
- Install in accordance with all national and local electrical codes.

Step 2: Control power wiring

The *Energi Savr Node* unit operates at 120-277 V~. Use the following instructions to wire line voltage to power the *Energi Savr Node* unit.

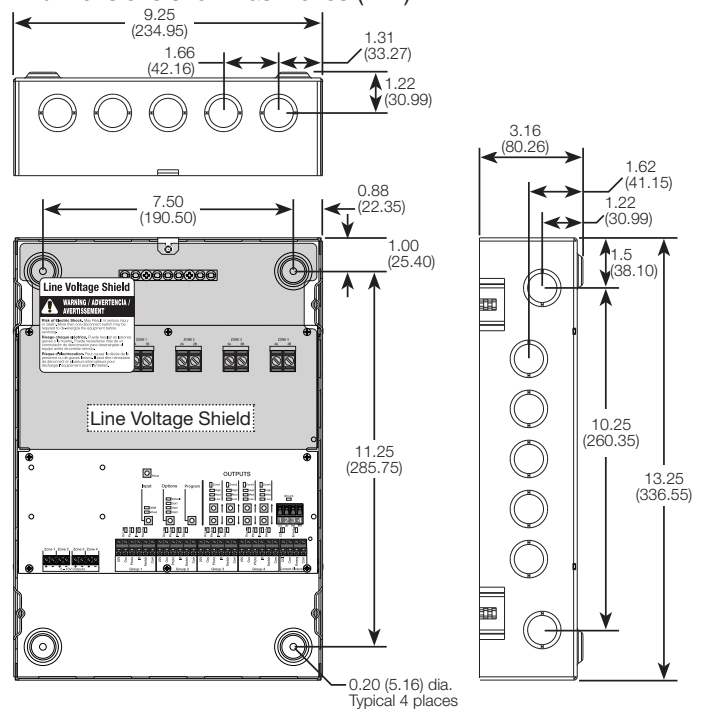
WARNING! Danger of Shock. May result in serious injury or death. DO NOT WIRE WHEN LIVE! Switch off power to all power feeds via circuit breaker before wiring or servicing the *Energi Savr Node* unit.

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

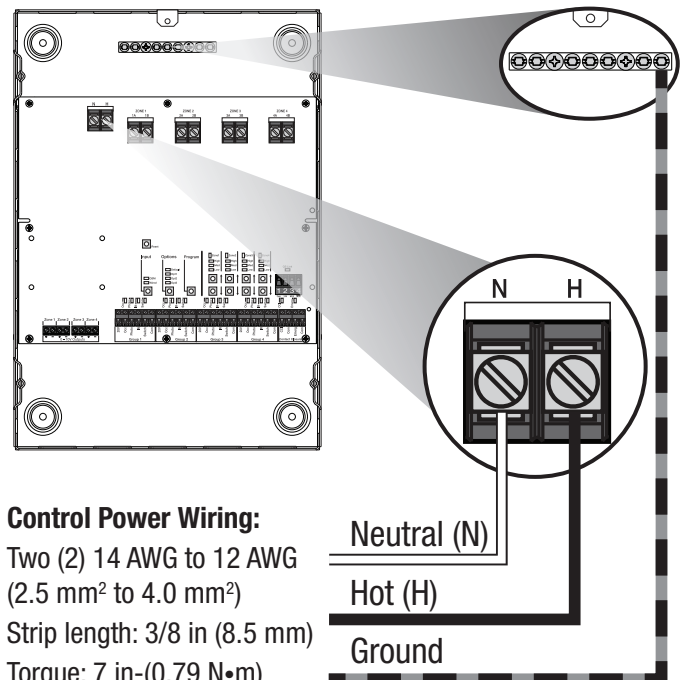
1. Remove metal outer panel cover.
2. Remove internal plastic line voltage shield.
3. Use 14 AWG to 12 AWG (2.5 mm² to 4.0 mm²) conductors (depending on breaker rating) to feed the control power wiring. The *Energi Savr Node* unit draws less than 0.5 A.
4. Wire the line voltage cables to the terminals labeled H (Hot) and N (Neutral). A two-position terminal block is provided.
5. The *Energi Savr Node* unit is grounded through the ground bar. Attach the ground wire.
6. Reinstall internal plastic line voltage shield.
7. Turn on the circuit breaker to power up the *Energi Savr Node* unit. The 'Wired' LED on the *Energi Savr Node* unit will light when properly energized. If the LED does not light, turn off power, then check the control power wiring.
8. Turn power off.

Mechanical Dimensions

All dimensions shown as inches (mm)



Control Power Wiring



Control Power Wiring:

- Two (2) 14 AWG to 12 AWG (2.5 mm² to 4.0 mm²)
- Strip length: 3/8 in (8.5 mm)
- Torque: 7 in-(0.79 N•m)

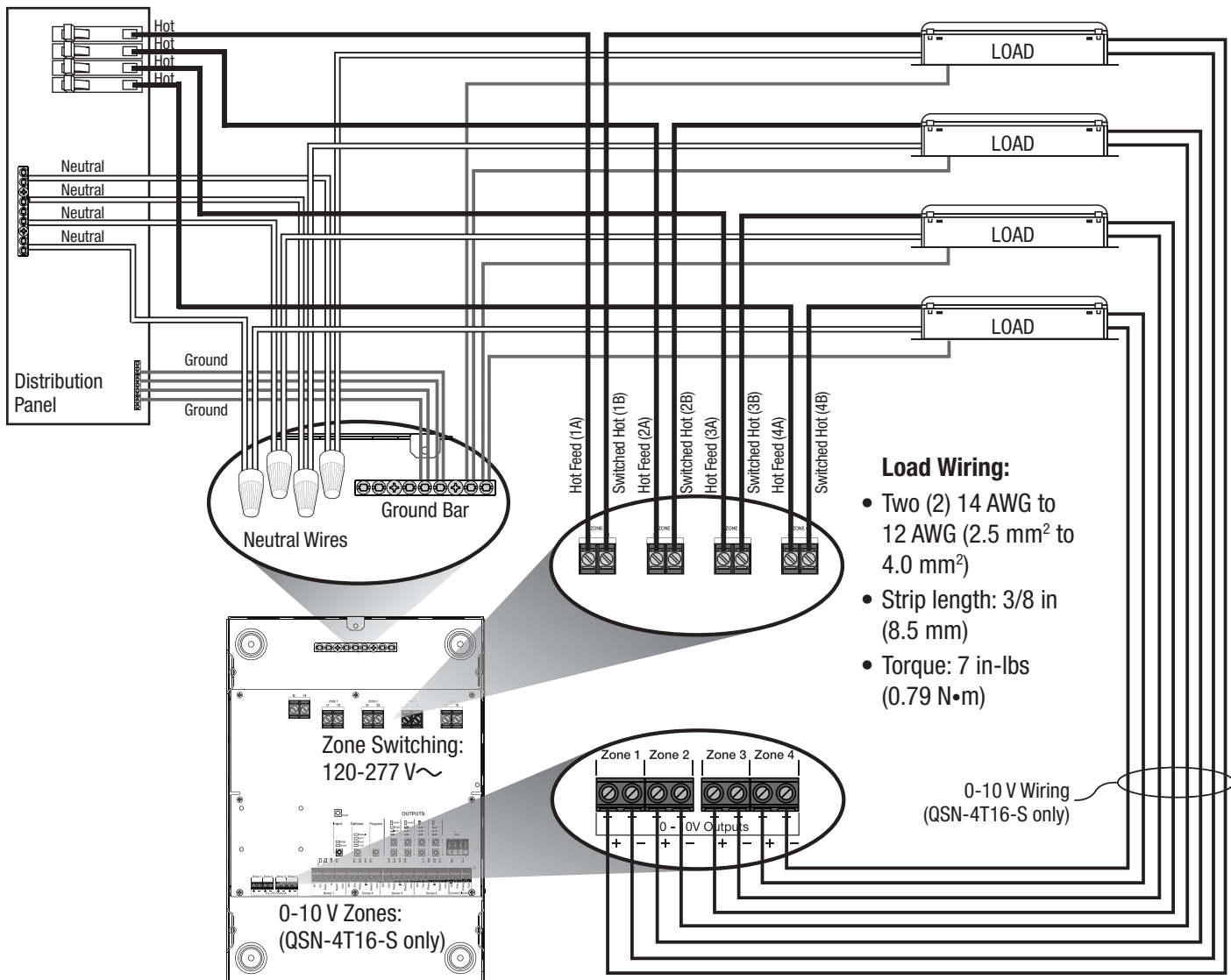
Step 3: Load wiring

The *Energi Savr Node* unit operates at 120-277 V~. Use the following instructions to wire line voltage loads to the *Energi Savr Node* unit.

⚠ 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 before wiring or servicing the *Energi Savr Node* unit.

The *Energi Savr Node* unit is a feed-through device. This means that each switched output needs the Line and Load wires. THERE IS NO INTERNAL CONNECTION BETWEEN THE CONTROL POWER TO THE UNIT AND THE SWITCHED OUTPUTS.

Feed-Through Wiring Example 1 – 4 Circuits, Multiple Feeds



Load Wiring:

- Two (2) 14 AWG to 12 AWG (2.5 mm² to 4.0 mm²)
- Strip length: 3/8 in (8.5 mm)
- Torque: 7 in-lbs (0.79 N•m)

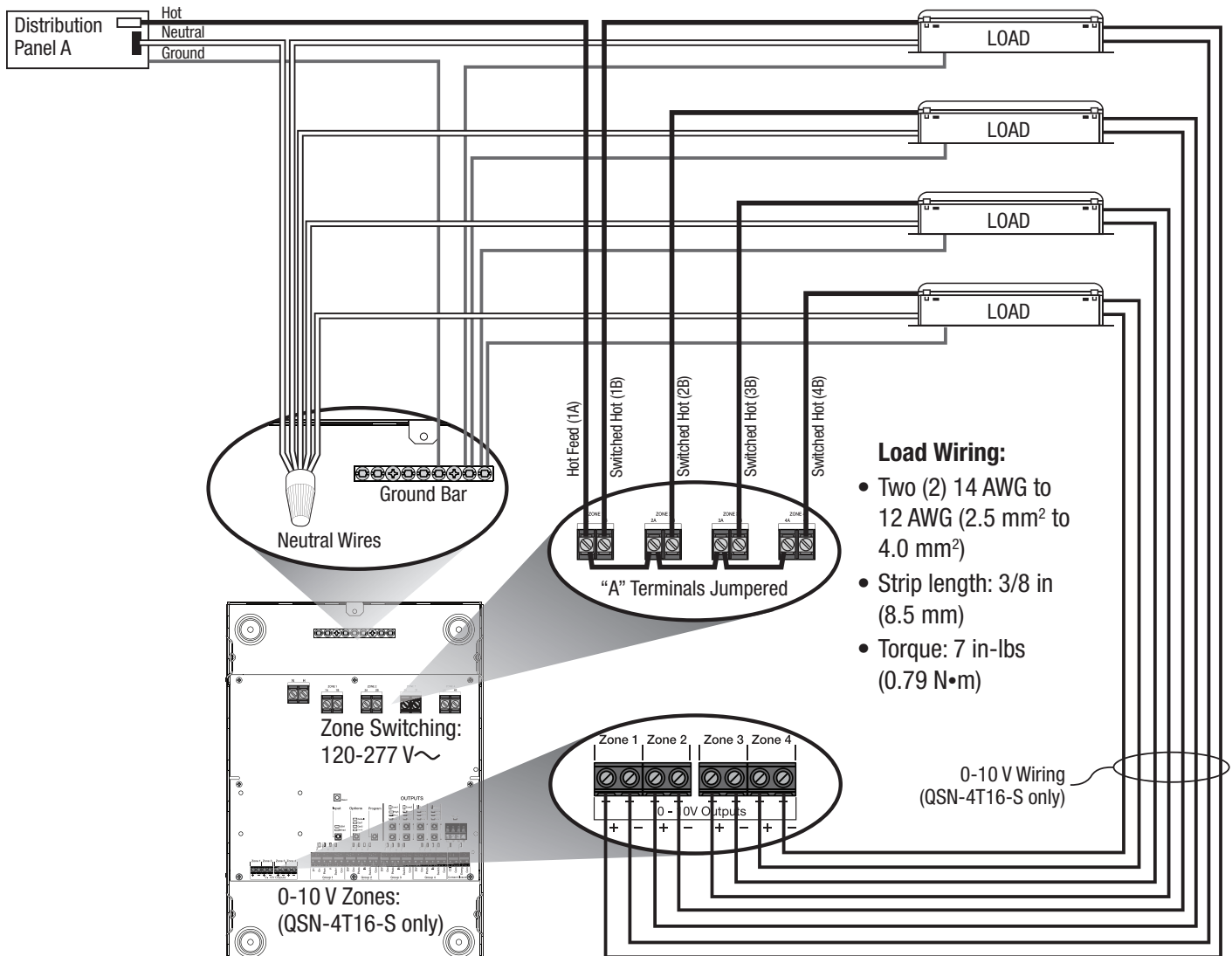
0-10 V Wiring (QSN-4T16-S only)

- 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)
- Connect only NEC® Class 2/PELV circuits or connect only non-NEC Class 2/PELV circuits to 0-10 V zones 1-4.

- 0-10 V zones 1-4 are not isolated from each other.
- Negative (-) terminals are not internally connected to each other—both positive (+) and negative (-) connections must be made.
- Follow all national and local codes for separation requirements.

Load Wiring (continued)

Feed-Through Wiring Example 2 – 4 Circuits, Single Feed



0-10 V Wiring (QSN-4T16-S only)

- 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)
- Connect only NEC® Class 2/PELV circuits or connect only non-NEC Class 2/PELV circuits to 0-10 V zones 1-4.
- 0-10 V zones 1-4 are not isolated from each other.
- Negative (–) terminals are not internally connected to each other—both positive (+) and negative (–) connections must be made.
- Follow all national and local codes for separation requirements.

Step 4: Input group wiring

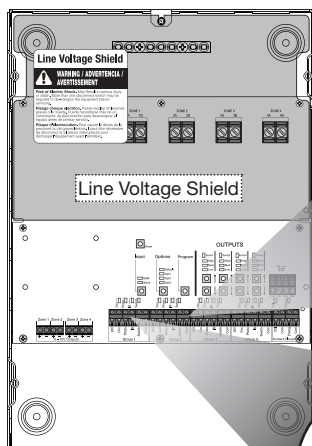
To connect a daylight sensor, occupancy sensor, infrared (IR) receiver, and/or NEC® Class 2/PELV dry contact switch, refer to the instruction sheets provided with the devices. Diagrams for the input terminals are shown below.

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 before wiring or servicing the *Energi Savr Node* unit.

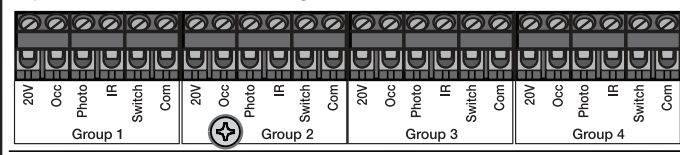
Buttons and LEDs in the unit are used for programming and troubleshooting. If line voltage shield is removed, the unit must be accessed by a certified electrician, following local codes.

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

Input Group Wiring

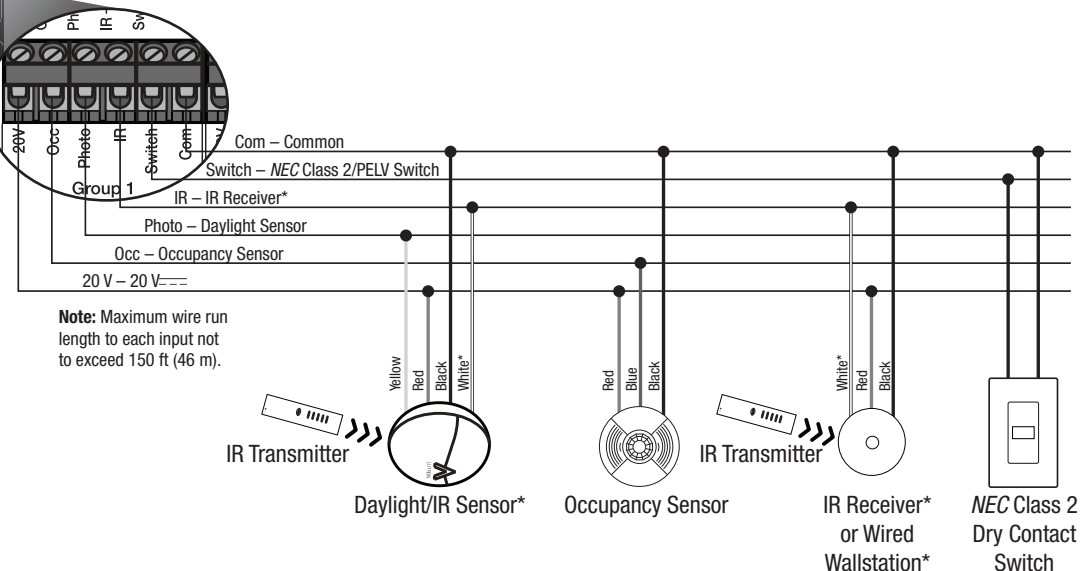


NOTE: There are four input groups. Each group has the same inputs as shown in the diagram below.



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 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.

Step 5: Contact Closure Inputs: Emergency and CCI

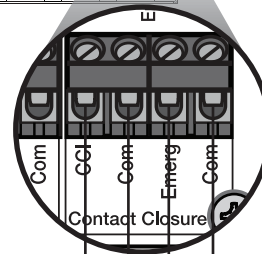
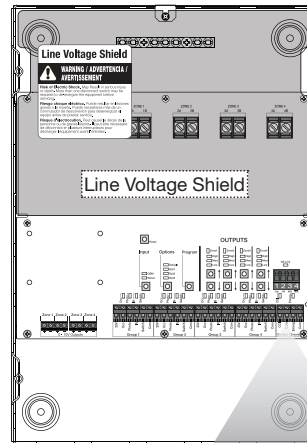
⚠ WARNING! Danger of Shock. May result in serious injury or death. DO NOT WIRE WHEN LIVE! Switch off power to all power feeds via circuit breaker before wiring or servicing the *Energi Savr Node* unit.

If line voltage shield is removed, the unit must be accessed by a certified electrician, following local codes.

- Both Contact Closure Inputs' (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.
- If the Emergency input is open, the *Energi Savr Node* unit will enter Emergency Mode, which will turn on all loads and disable local zone control and control from sensors and QS devices.

Note: The *Energi Savr Node* 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.

Contact Closure Wiring



Contact Closure 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)

Step 6: QS link wiring

⚠ 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 before wiring or servicing the *Energi Savr Node* unit.

Buttons and LEDs in the unit are used for programming and troubleshooting. If line voltage shield is removed, the unit must be accessed by a certified electrician, following local codes.

QS link communication uses NEC® Class 2/PELV wiring. Follow all local and national electrical codes when installing NEC Class 2/PELV wiring with line voltage wiring.

The total distance of the QS link wiring must not exceed 2000 ft (610 m).

| QS Link Wiring Distance | Wire Gauge | Available from Lutron in one cable: |
|-----------------------------------|---|-------------------------------------|
| Less than 500 ft (125 m) | Power (terminals 1 and 2): 1 pair 18 AWG (1.0 mm ²) | GRX-CBL-346S |
| | Data (terminals 3 and 4): 1 pair 22 AWG (0.5 mm ²), twisted and shielded* | |
| 500 ft (125 m) to 2000 ft (610 m) | Power (terminals 1 and 2): 1 pair 12 AWG (4.0 mm ²) | GRX-CBL-46L |
| | Data (terminals 3 and 4): 1 pair 22 AWG (0.5 mm ²), twisted and shielded* | |

* Alternate Data-only cable: Use approved data link cable (22 AWG (0.5 mm²) twisted/shielded) from Belden, model #9461.

Check for compatibility in your area.

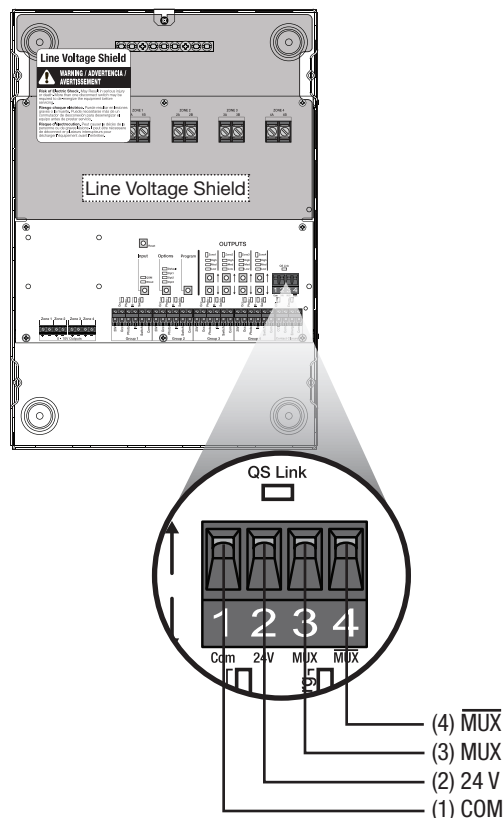
A QS system can have up to 100 zones and 100 devices. The *Energi Savr Node* unit counts as 1 device and up to 4 zones.

See diagram on the right for QS link wiring.

1. Connect terminals 1, 3 and 4 to all *Energi Savr Node* units.
2. Each *Energi Savr Node* unit has its own built-in power supply.
3. The terminal 2 connection (24 V $\overline{=}$) supplies power to QS devices sharing that connection.
 - Ensure that QS devices powered from terminal 2 of the *Energi Savr Node* unit do not consume a combined total of more than 14 Power Draw Units (PDUs).
 - Refer to the documentation for each QS device to determine that device's PDU consumption.
4. Wiring may be daisy chained or t-tapped.

Power draw calculations are not needed for wireless sensors or sensors connected directly to the *Energi Savr Node* units.

QS Link Wiring

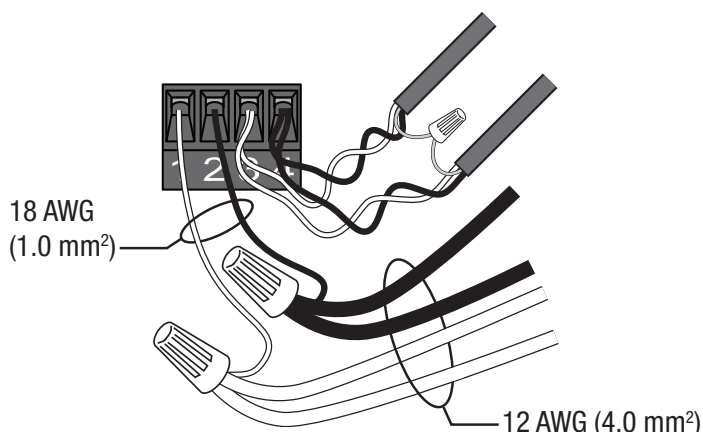


QS Link Wiring:

- 22 AWG to 12 AWG (0.5 mm² to 4.0 mm²)
- Strip length: 3/8 in (8.5 mm)
- Torque: 5 in-lbs (0.5 N•m)

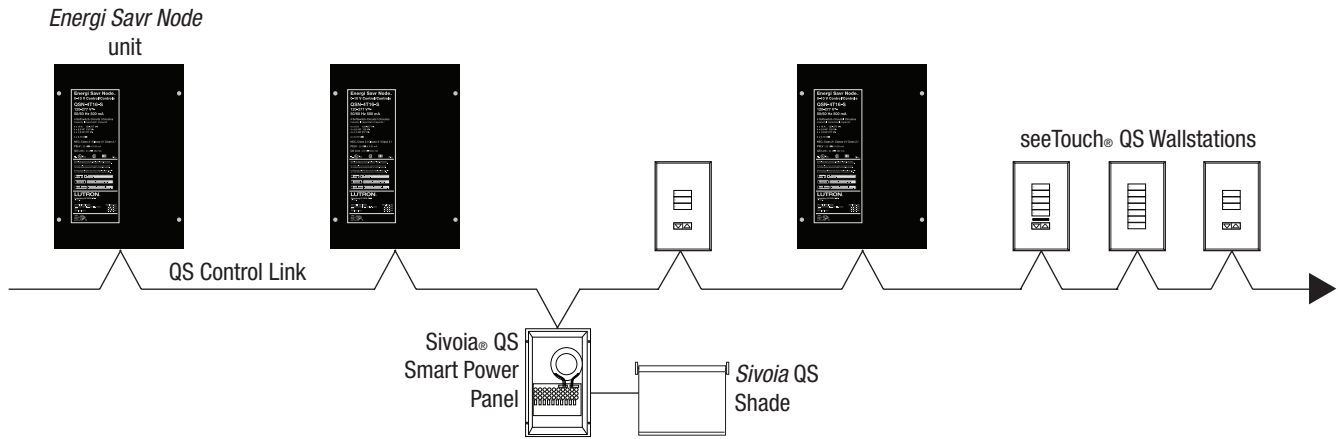
NEC Class 2/PELV Terminal Connections

Each low-voltage NEC Class 2/PELV terminal can accept only two 18 AWG (1.0 mm²) wires. Two 12 AWG (4.0 mm²) conductors will not fit. Connect as shown below using appropriate wire connectors.

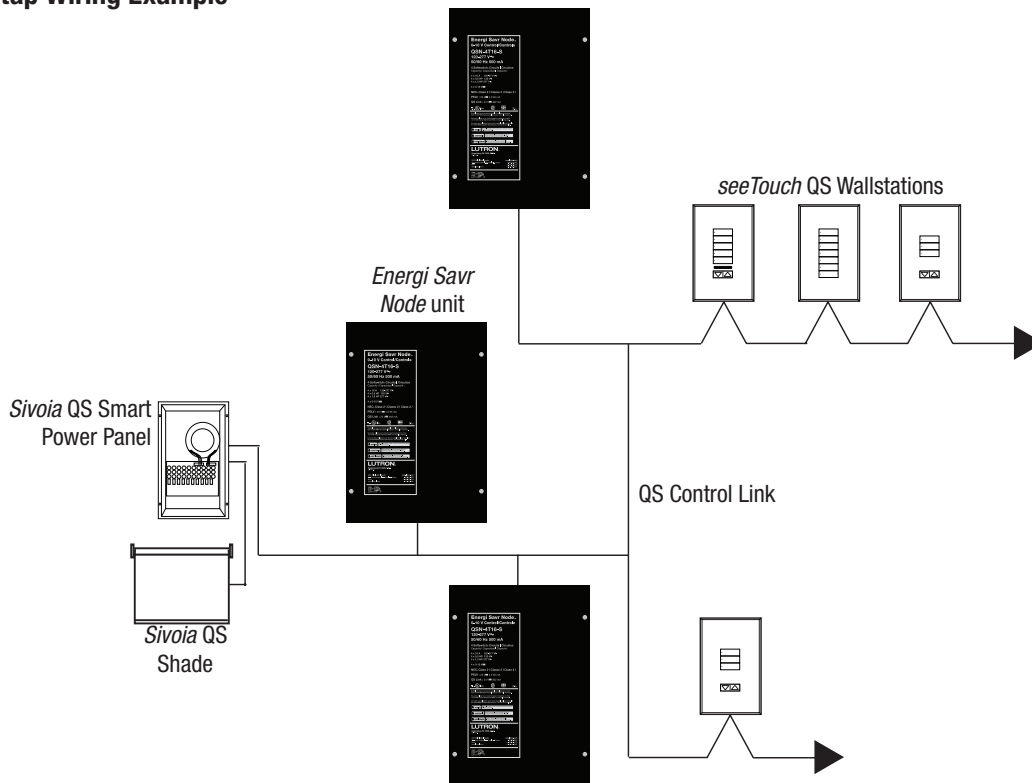


QS Link Wiring (continued)

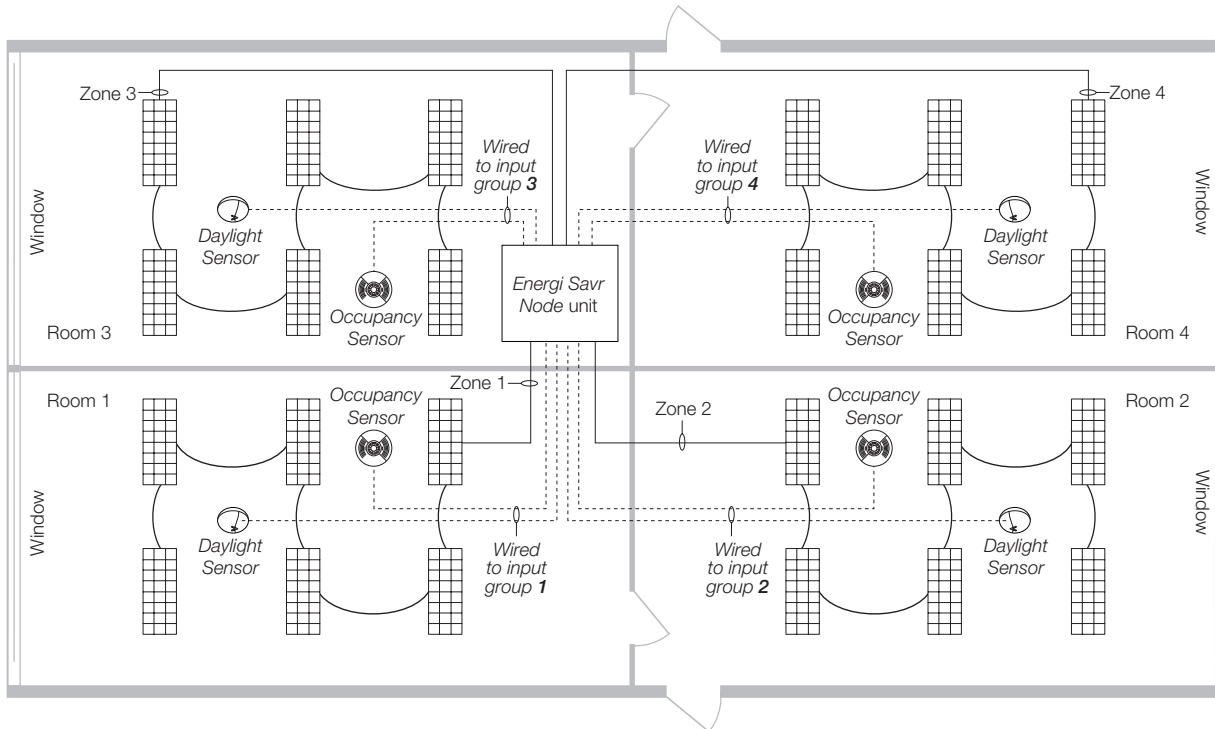
Daisy-chain Wiring Example



T-tap Wiring Example



Sample application: Out of Box Functionality (requires no commissioning)



Out of Box Functionality

This section describes the default functionality that the unit will present when first installed.

Inputs (Occupancy, Daylight, IR, and Switch):

- Input group 1: controls zone 1.
- Input group 2: controls zone 2.
- Input group 3: controls zone 3.
- Input group 4: controls zone 4.

Occupancy Sensors (Occ)

- Corresponding zones will turn on when the occupancy sensor is in the occupied state (closed) and off when in the unoccupied state (open).

Daylight Sensors (Photo)

- Corresponding zones will turn on when light sensed by daylight sensor falls below the factory preset level.
- Corresponding zones will turn off when light sensed by daylight sensor rises above the factory preset level.
- QSN-4T16-S only: Corresponding zone light levels will raise or lower when light sensed by daylight sensor falls or rises based on a factory default setting.

IR Receivers (IR)

- See IR Receiver literature for compatible transmitters.
- Corresponding zones respond to on, off, and Scene commands from compatible IR transmitters.
- QSN-4T16-S only: Corresponding zones respond to Raise and Lower commands from compatible IR transmitters.

NEC® Class 2/PELV Dry Contact Closure (Switch)

- Maintained closure or open toggles corresponding zone(s) between preset and off.

Contact Closure Input (CCI)

- Momentary closure from a normally-open (NO) dry contact closure device will result in all zones being turned off.

Emergency Contact Closure Input (Emerg)

- If the Emergency input is open, the *Energi Savr Node* unit will enter Emergency Mode, which will turn on all loads and disable local zone control and control from sensors and QS devices.
- When the Emergency input is closed or jumpered, *Energi Savr Node* unit zones will return to the settings or levels they were at prior to entering Emergency Mode.

seeTouch® QS Wallstations

- All *seeTouch* QS lighting wallstations are Scene keypads by default.
- QSN-4S16-S only: Scenes 1-16 will turn all the lights on.
- QSN-4T16-S only: Scenes 1-16 will dim lights to the preset levels in the table below:

| Scene # | Light Level: All Zones |
|---------|------------------------|
| 1, 5-16 | 100% |
| 2 | 75% |
| 3 | 50% |
| 4 | 25% |

- Scene Off will turn all the lights off.

Normal Operation

In normal operation, the following buttons allow the user to access certain basic functions:

1. **↑ (Raise)** — QSN-4T16-S: Raises zone light level in 1% increments from 0-100%.
— QSN-4S16-S: Turns selected zone on.
2. **↓ (Lower)** — QSN-4T16-S: Decreases zone light level in 1% decrements from 100-0%.
— QSN-4S16-S: Turns selected zone off.

Note: On QSN-4T16-S only - For any zone, simultaneously pressing and holding the ↑ and ↓ buttons will toggle the zone between high end and low end.

QS Link Input(s) Setup

seeTouch QS Wallstation or GRAFIK Eye® QS unit - Scenes and Scenes + Off

Assigns a *seeTouch* QS Wallstation or *GRAFIK Eye* QS unit to any *Energi Savr Node* unit zone on the QS link.

1. To assign a *seeTouch* QS Wallstation or *GRAFIK Eye* QS unit to an *Energi Savr Node* unit(s), simultaneously press and hold the top and bottom buttons on the wallstation or *GRAFIK Eye* QS unit for 3 seconds. The QS link enters Programming Mode. The sensor LEDs on the *Energi Savr Node* unit(s) will flash sequentially through each input and group.
2. To assign or un-assign desired zone(s) to a wallstation, simultaneously press and hold the the ↑ and ↓ buttons for the desired zone. A blinking 'Zone' LED indicates an assigned zone.
3. To exit Programming Mode, simultaneously press and hold the the top and bottom buttons on the wallstation or *GRAFIK Eye* QS unit for 3 seconds.

Note: For more advanced programming information, refer to the online Programming Guide at: www.lutron.com/softswitchenergisavrnode

Using LEDs to troubleshoot



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Buttons and LEDs in the unit are used for programming and troubleshooting. If line voltage shield is removed, the unit must be accessed by a certified electrician, following local codes.

| LED | LED Behavior | Description |
|---|---------------------------------|---|
| Occ (Occupancy Sensor) | Continuous On | Sensor detects Vacancy |
| | 1 flash per second | Sensor detects Occupancy |
| | Off | Sensor never detected |
| Photo (Daylight Sensor) | Continuous On | Sensor is detected |
| | Flashing | Sensor information transmitting on the QS link |
| | Off | Sensor never detected/ sensor not seeing light |
| IR (Infrared Receiver) | Continuous On | Receiver is detected |
| | Flashing | IR button press detected |
| | Off | Receiver never detected |
| Switch (NEC® Class 2 Switch) | Continuous On | Switch detected/open |
| | Flashing | Switch button press detected |
| | Off | Switch never detected |
| CCI (Contact Closure Input) | Continuous On | Contact detected/open |
| | Flashing | Contact closed |
| | Off | Contact never detected |
| Emerg (Emergency Contact Closure Input) | Continuous On | Normal operation/Contact Closed/Jumpered |
| | Rapid flash | Emergency Mode/Contact Open/Jumper missing |
| QS Link | On/Flashing | Device transmitting/ receiving on the QS link |
| | 3 quick flashes every 4 seconds | Communication error |
| | Off | Device not transmitting/ receiving on the QS link |
| Wired | Continuous On | Wired sensor |
| Zone | Continuous On | Load is on |
| | Off | Load is off |

Energi Savr Node™ 0-10 V/SoftSwitch® | Installation Guide

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 commissioned by Lutron or a Lutron approved third party as part of a Lutron commissioned 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 commissioned system, except that the term of the unit's warranty term will be measured from the date of its commissioning.

EXCLUSIONS AND RESTRICTIONS

This Warranty does not cover, and Lutron and its suppliers are not responsible for:

1. Damage, malfunction or inoperability diagnosed by Lutron or a Lutron approved third party as caused by normal wear and tear, abuse, misuse, incorrect installation, neglect, accident, interference or environmental factors, such as (a) use of incorrect line voltages, fuses or circuit breakers; (b) failure to install, maintain and operate the unit pursuant to the operating instructions provided by Lutron and the applicable provisions of the National Electrical Code and of the Safety Standards of Underwriter's Laboratories; (c) use of incompatible devices or accessories; (d) improper or insufficient ventilation; (e) unauthorized repairs or adjustments; (f) vandalism; or (g) an act of God, such as fire, lightning, flooding, tornado, earthquake, hurricane or other problems beyond Lutron's control.
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.

EXCEPT AS EXPRESSLY PROVIDED IN THIS WARRANTY, THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF ANY TYPE, INCLUDING ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. LUTRON DOES NOT WARRANT THAT THE UNIT WILL OPERATE WITHOUT INTERRUPTION OR BE ERROR FREE.

NO LUTRON AGENT, EMPLOYEE OR REPRESENTATIVE HAS ANY AUTHORITY TO BIND LUTRON TO ANY AFFIRMATION, REPRESENTATION OR WARRANTY CONCERNING THE UNIT. UNLESS AN AFFIRMATION, REPRESENTATION OR WARRANTY MADE BY AN AGENT, EMPLOYEE OR REPRESENTATIVE IS SPECIFICALLY INCLUDED HEREIN, OR IN STANDARD PRINTED MATERIALS PROVIDED BY LUTRON, IT DOES NOT FORM A PART OF THE BASIS OF ANY BARGAIN BETWEEN LUTRON AND CUSTOMER AND WILL NOT IN ANY WAY BE ENFORCEABLE BY CUSTOMER.

IN NO EVENT WILL LUTRON OR ANY OTHER PARTY BE LIABLE FOR EXEMPLARY, CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFITS, CONFIDENTIAL OR OTHER INFORMATION, OR PRIVACY; BUSINESS INTERRUPTION; PERSONAL INJURY; FAILURE TO MEET ANY DUTY, INCLUDING OF GOOD FAITH OR OF REASONABLE CARE; NEGLIGENCE, OR ANY OTHER PECUNIARY OR OTHER LOSS WHATSOEVER), NOR FOR ANY REPAIR WORK UNDERTAKEN WITHOUT LUTRON'S WRITTEN CONSENT ARISING OUT OF OR IN ANY WAY RELATED TO THE INSTALLATION, DEINSTALLATION, USE OF OR INABILITY TO USE THE UNIT OR OTHERWISE UNDER OR IN CONNECTION WITH ANY PROVISION OF THIS WARRANTY, OR ANY AGREEMENT INCORPORATING THIS WARRANTY, EVEN IN THE EVENT OF THE FAULT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, BREACH OF CONTRACT OR BREACH OF WARRANTY OF LUTRON OR ANY SUPPLIER, AND EVEN IF LUTRON OR ANY OTHER PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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 (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 limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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