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## Athena DIN Rail Panel: 230 V $\sim$ (CE)

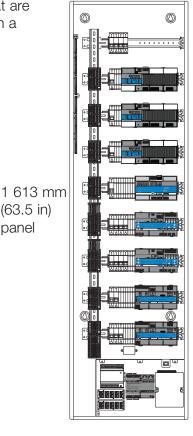
Configurable lighting control panels are pre-assembled and tested power panels that are configurable to control multiple load types. Safe panel design offers ease of use with a separate control equipment compartment for link management and interfacing with other systems.

#### **Features**

- Integral Athena Edge processor available
- Able to connect to other DIN rail panels, Athena hubs (QP5; QP6), or Edge processors in enclosure by others
- Supports up to 10 total DIN power modules (DPMs):
  - 220-240 V~ Switching (QSNE-4S5-230-D)
  - 220-240 V ~ PRO LED+ phase adaptive power module (QSNE-4A5-230-D)
  - 220-240 V ~ 0-10 V === dimming control (QSNE-4T10-230-D)\*
  - 220-240 V~ DALI<sub>®</sub> Universal (QSN-2DALUNV-D)
  - 230 V~ Motor loads (QSE-CI-4M-D)
- IEC PELV/SELV control section to can have up to two of the following:
  - Network interface (QSE-CI-NWK-E)
  - Contact Closure interface (QSE-IO)
  - DMX interface (QSE-CI-DMX)
  - Athena Edge processor (QP-\*)
- Panels are pre-wired and tested prior to shipping
- Panels are rated for 220–240  $V\sim$  and 230  $V\sim$  (CE) applications
- Feed-through, MCB, or RCBO panels available
- Allows for integration of wired and wireless sensors and controls
- Integrates with Lutron QS devices
- Integrates with Lutron Sivoia QS motorized shades
- Scalable from a single area or floor; to a building or whole campus
- Integral manual override switch turns all lights on to a programmable level when activated (for all modules except motor module and QSE-CI-4M-D module)
- Bypass jumpers included for load mis-wire protection
- Panels are available in two sizes: 1 613 mm (63.5 in) and 921 mm (36.3 in) tall
- Front cover with vents to maximize thermal performance included
- Optional black, powder-coated doors available for all panels:
  - Reversible, hinged door with magnetic latch
  - Locking hinged door available upon request
- Schneider Electric<sub>®</sub> breakers are used in MCB and RCBO versions

Note: See page 20 for a list of complete specification submittals

Maximum of 10 A total in an RCBO panel



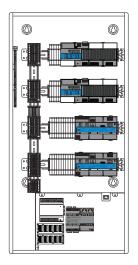
(63.5 in)

921 mm

(36.3 in)

panel

panel



	<b>\$LUTRON</b>	SPECIFICATION	SUBMITTAL
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Job Name:	Model Numbers:
Job Number:	

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## **Specifications**

#### **Regulatory Approvals**

- CE
- UKCA

#### **Power**

- Input: 230 V ~ (CE); 220–240 V ~ (non-CE) 50/60 Hz (see panel configuration for input current ratings).
- Lightning strike protection: Meets ANSI/IEEE standard C62.41-2000 and IEC 61000-4-5. Can withstand voltage surges up to 6 000 V ~ and current surges up to 3 000 A.
- 10 year power failure memory: restores lighting to levels prior to power interruption.
- Branch Circuit Breakers: IEC rated
  - Current rating: 10 A
  - Rated residual current (RCBO only): 30 mA
  - Trip Curve characteristic: Type C
  - Additional breaker options available upon request
- Standby power: varies based on configuration. See the individual module and control equipment specifications available at www.lutron.com to determine what standby power a particular panel consumes.

#### **DIN Modules Available**

#### (maximum of 10)

- PRO LED+ Phase Adaptive
- Switching 5 A max per output
- Switching/0–10 V===
- Motor

#### (maximum of 8)

• DALI<sub>®</sub> Universal

Note: DALI<sub>®</sub> Universal modules limited to four (4) per QS Link

#### Wiring

- Internal: Wired and tested by Lutron.
- System communications: IEC PELV/SELV wiring connects panels to control station.
- Wired sensors must be wired to QS Sensor Module (QSM).
- Line (mains) voltage: only feed and load wiring required (feed-through panels require feeds for the module power).

#### Mounting

• Surface- or recess-mount.

#### Construction

- 1.5 mm (16-gauge) galvanized sheet metal enclosure (unpainted).
- 1.5 mm (16-gauge) powder-coated (black) metal cover with ventilation holes.
- Optional door: 2.1 mm (14-gauge) powder-coated (black) metal door with ventilation holes.

#### **Environment**

- Enclosure: IP-20 protection.
- Mount where ambient temperature is 0 to 40 °C (32 to 104 °F). Relative humidity less than 90%, non-condensing.
- Indoor use only.
- Passive cooling (fan is not required)

### Line Voltage (Mains) Connections

- Use copper wire only, supply conductors 60 °C to 75 °C (140 °F to 167 °F).
- Feed-through panels
  - DIN rail-mounted terminal blocks provided for line-voltage (mains) power to DPMs and to control equipment power supply.
  - DIN rail-mounted terminal blocks provided for load wiring.
- MCB and RCBO panels
  - Isolator switch provided for line-voltage (mains) power. Power is distributed to branch circuit breakers, modules, and control gear via internal wiring installed by Lutron.
  - DIN rail-mounted terminal blocks provided for load wiring.

### Wire Sizing

- DIN rail-mounted terminal blocks:
  - Line (mains) and load terminal blocks will accept one 0.14 mm² to 6.0 mm² (26 AWG to 10 AWG) wire or two 0.14 mm² to 1.5 mm² (26 AWG to 16 AWG) wires.
  - 0–10 V== control signal terminal blocks will accept one 0.14 mm² to 1.5 mm² (26 AWG to 16 AWG) wire or two 0.14 mm² to 0.75 mm² (26 AWG to 20 AWG) wires.
- Isolator switches will accept one 4.0 mm² to 35 mm² (12 AWG to 2 AWG) wire per pole.

continued on next page

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Job Name:	Model Numbers:
Job Number:	

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## Specifications (continued)

#### Athena Edge Processor (optional)

Panels with processors are referred to as "control" panels. Panels without processors are also available and are referred to as "satellite" panels.

- Control panel with processor provides:
  - Astronomic Time Clock
    - · Setup using PC application or Lutron app
    - · Capable of up to 500 events
    - · 7 daily schedules and 5 holiday (special) schedules are available
    - · 25 events per day
    - Holiday (special) events are programmable one year in advance
  - Ethernet port for laptop connection and networking multiple panels together with processors

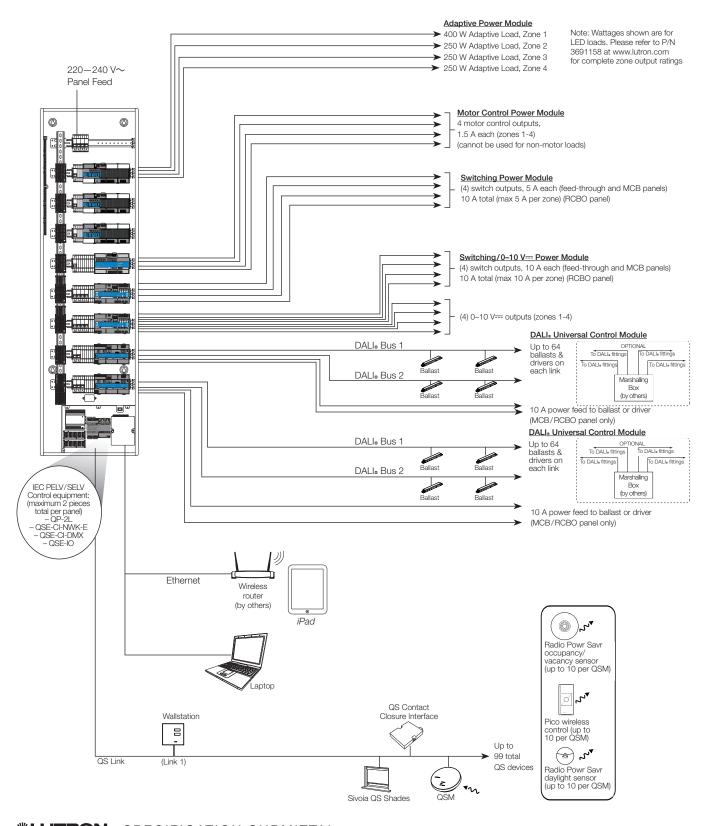
## Configurable Link/Switchleg Capabilities

	LI	Limitations per Processor			
Athena Edge	Number	Number of	QS Device		
Processor Model	of Links	Ethernet Ports	Count		
	2	2	99 (per QS link)		
				ı	
QP-2L		Lim	itations per QS L	ink	
Si ZL	Keypad	Occupancy	Daylight	Switchleg	DMX Interface
	Count	Sensor Count	Sensor Count	Count	Limit
	100	100	100	512	16

Job Name:	Model Numbers:
Job Number:	

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## System Diagram

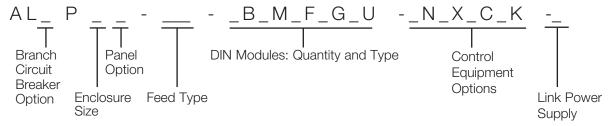


Job Name:	Model Numbers:
Job Number:	

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## **Panel Configuration Nomenclature**

**Note:** The following information is given for general use only. Consult Lutron for available module combinations and assistance with specifying module and control equipment.



#### **Branch Circuit Breaker Options**

**B** = 220-240 V~ MCB Breaker 10 A

R = 220-240 V~ RCBO Breaker 10 A

Blank = Feed-through

#### **Enclosure Sizes**

3 = 921 mm (36 in) enclosure

6 = 1613 mm (64 in) enclosure

#### **Panel Options**

**C** = Control Panel (control equipment compartment)

S = Satellite Panel (modules only, no control equipment)

### **Feed Types**

 $L4 = 3 \varnothing 4 W (125 A Isolator Switch)$ 

L2 = 1 Ø 2 W (63 A Isolator Switch, RCBO panel only)

**FT** = Feed-through (10 A per feed maximum)

#### **DIN Modules**

\_B = PRO LED+ Phase Adaptive Dimming

**\_M** = Motor Module

\_F = Four-Circuit Switching

\_G = Four-Circuit 0-10 V===

\_**U** = DALI<sub>®</sub> Universal Control Module

# Control Equipment Options (maximum of 2 in control panel)

\_N = Athena Edge Processor (see page 3)

**\_X** = DMX Control

\_C = Contact Closure Interface

**K** = Network Interface

## Link Power Supply (control panels only)

 $\mathbf{L}=$  Power Supply (required if panel contains processor)

Blank = No Power Supply

Panel Size	Maximum number of DIN modules with circuit breakers	Maximum number of DIN modules without circuit breakers
921 mm (36.3 in) control panel	3	4
921 mm (36.3 in) satellite panel	4	5
1 613 mm (63.5 in) control panel	8	9
1 613 mm (63.5 in) satellite panel	9	10

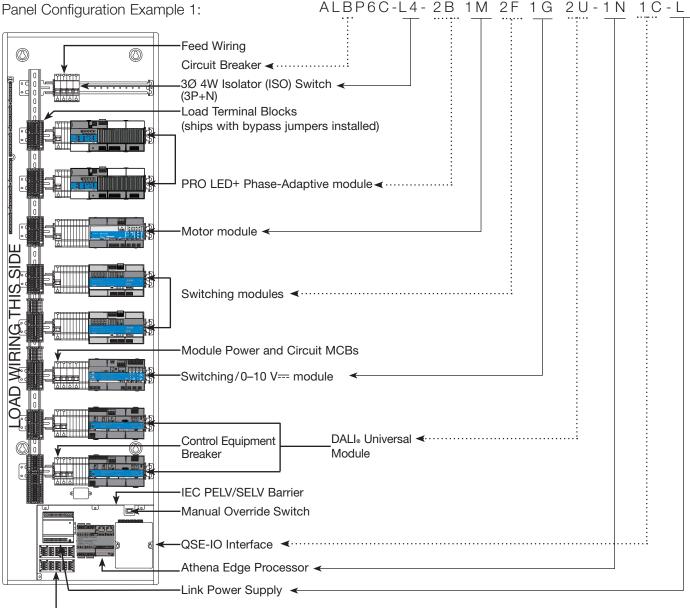
Job Name:	Model Numbers:
Job Number:	

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## **Example Configurations**

Breaker Panel

Base Model: QLBP6C-L4-230PNL



Wire Landing Board (WLB) for QS Link

- (1) included
- (2) included with all panels that include 5+ DALI<sub>®</sub> Universal modules and/or 2 processors
- 2nd WLB available for purchase (model number: QS-WLB)

#### Example

ALBP6C-L4-2B2M1F1G2U-1N1C-L: 1 613 mm (63.5 in) 3Ø 4W control panel with

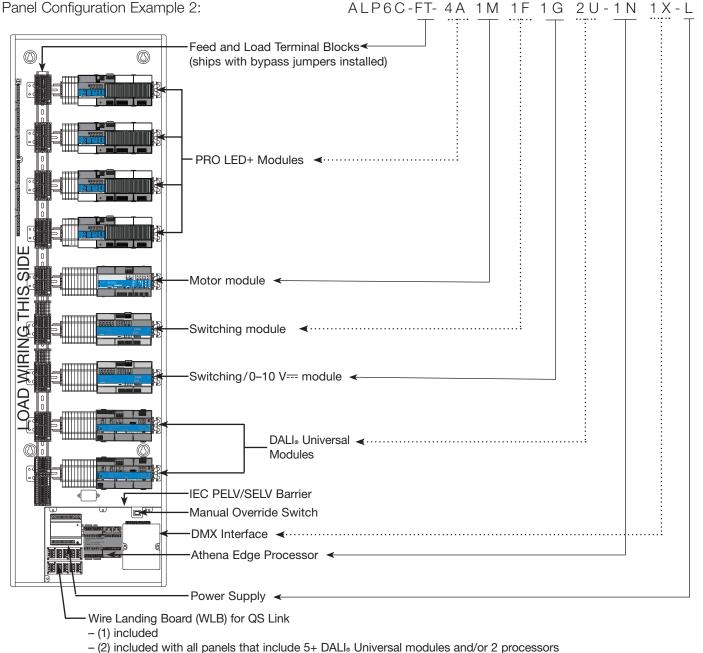
- (2) PRO LED+ phase adaptive modules, (2) motor modules, (1) switching module, (1) 0-10 V== module,
- (2) DALI<sub>®</sub> Universal modules, (1) Athena Edge processor, (1) QSE-IO interface and (1) link power supply.

Job Name:	Model Numbers:
Job Number:	

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## **Example Configurations (continued)**

Feed-Through Panel Model: QLP6C-230-PANEL



#### Example

ALP6C-FT-4B1M1F1G2U-1N1X-L: 1 613 mm (63.5 in) feed-through control panel with (4) PRO LED+ phase adaptive modules, (1) motor module, (1) switching module, (1) 0–10 V== module, (2) DALI<sub>®</sub> Universal modules, (1) Athena Edge processor, (1) QSE-CI-DMX interface and (1) link power supply.

#### **LUTRON** SPECIFICATION SUBMITTAL

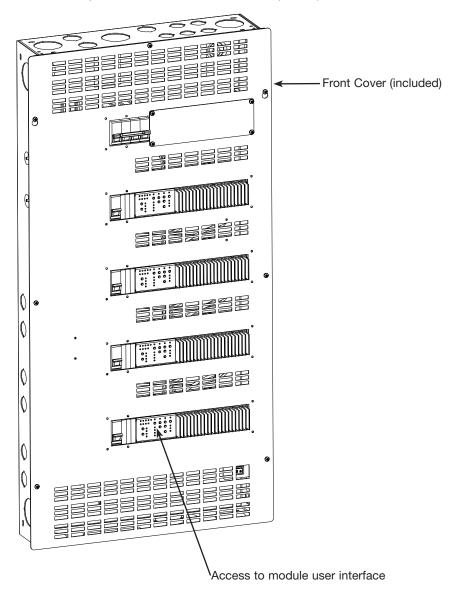
- 2nd WLB available for purchase (model number: QS-WLB)

Job Name:	Model Numbers:
Job Number:	

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## Panel Without Optional Door (as shipped):

Main feed panel shown in 921 mm (36 in) size



Job Name:	Model Numbers:
Job Number:	

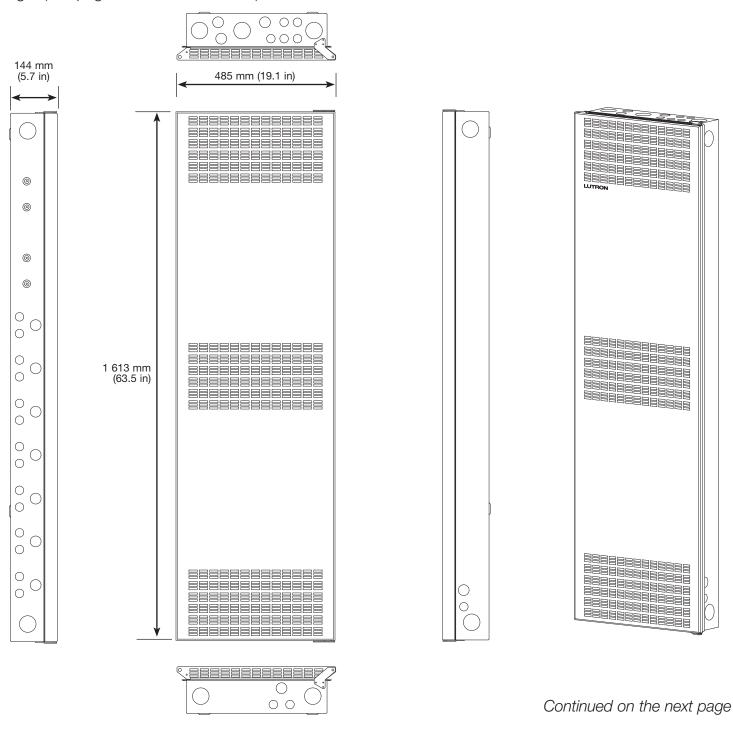
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## Optional Doors Available:

Model Number: PD-64-DOOR

## Dimensions: Fits 1 613 mm (63.5 in) panel

1 613 mm (63.5 in) panel with optional door shown below. Door can be installed as swing left or swing right (see page 11 of this document).



Job Name:	Model Numbers:
Job Number:	

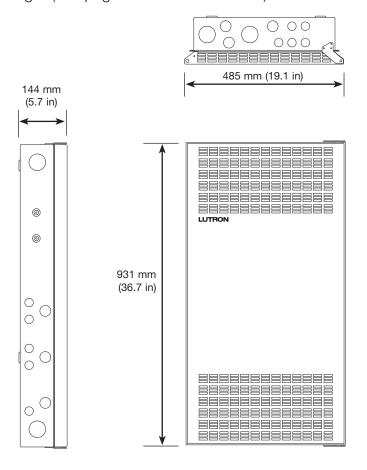
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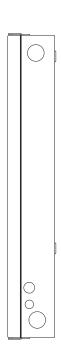
## Optional Doors Available: (Continued)

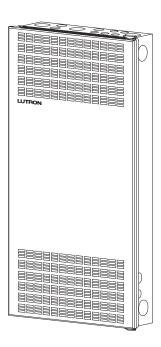
Model Number: PD-36-DOOR

#### **Dimensions**

921 mm (36.3 in) panel with optional door shown below. Door can be installed as swing left or swing right (see page 11 of this document).









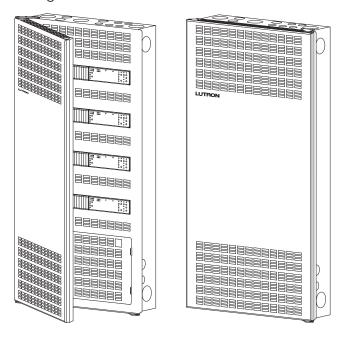
Job Name:	Model Numbers:
Job Number:	

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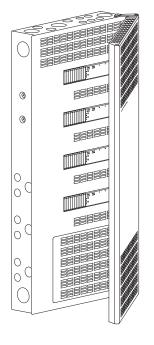
## Panel Door Mounting Options and Swing Clearances

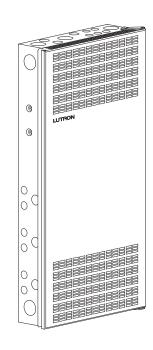
921 mm (36.3 in) panel shown for reference.

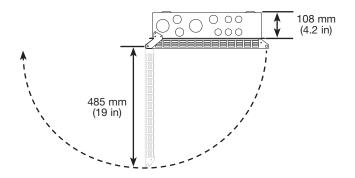
## Swing Left

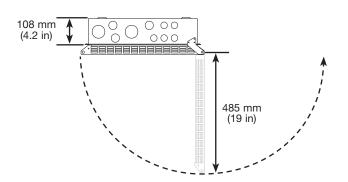


## Swing Right









Optional panel door kit includes hinges and mounting hardware that can be configured to swing left or right. Allow 485 mm (19 in) for swing clearance. Doors have a black, powder-coated finish. Kit can be installed after panel installation, but requires removal and reinstallation of the deadfront (flat cover). Standard door has a magnetic catch.

Job Name:	Model Numbers:
Job Number:	

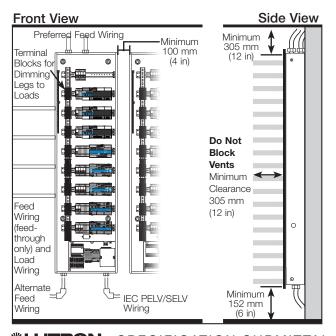
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## **Mounting for Panels**

- For indoor use only.
- Consult dimensions page for panel size, conduit knockouts, and mounting hole locations.
- Panels weigh up to 50 kg (110 lb). Reinforce wall structure for weight and local codes.
- Mount panel where audible noise is acceptable (internal relays click).
- This equipment is passively air-cooled. Mount in a location where the vented cover will not be blocked.
   305 mm (12 in) of clearance in front of the vents is required. Vents must not be blocked or the warranty will be voided.
- Mount panel so line (mains) voltage wiring is at least 1.8 m (6 ft) from sound or electronic equipment and wiring.
- For surface mount, mount the panel a minimum of 152 mm (6 in) from the floor and 305 mm (12 in) from the ceiling.
- Mount panel using one of the methods below (mounting hardware is not provided):

#### **Surface Mounting**

- Lutron recommends using 6 mm (1/4 in) mounting bolts.
- Leave 32 mm (1.25 in) clearance on each side of panel for cover.
- Use keyholes with bolts sufficient for 50 kg (110 lb) load,
   M6 (1/4 in) bolts recommended.
- Mount within 7° of true vertical.



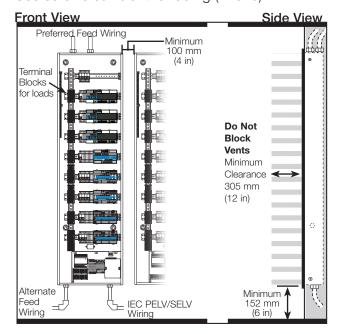
- Install in accordance with all local and national electrical codes.
- If using optional hinged door, allow 485 mm (19 in) for swing clearance.
- Do not stack 1 613 mm (63.5 in) panels. If stacking 921 mm (36.3 in) panels, allow at least 305 mm (12 in) between panels.

Number of	Maximum Heat Dissipation*	
modules	BTUs (kcal)/h	Watts (W)
1	90 (22.68)	26
2	170 (42.84)	50
3	250 (63.00)	73
4	330 (83.16)	97
5	410 (103.32)	120
6	490 (123.48)	144
7	570 (143.64)	167
8	650 (163.80)	190
9	650 (163.80)	190
10	650 (163.80)	190

\* Based on Phase-Adaptive (4A) Modules. Panel derating of 80 A dimming current maximum applies for panels with more than 8 modules.

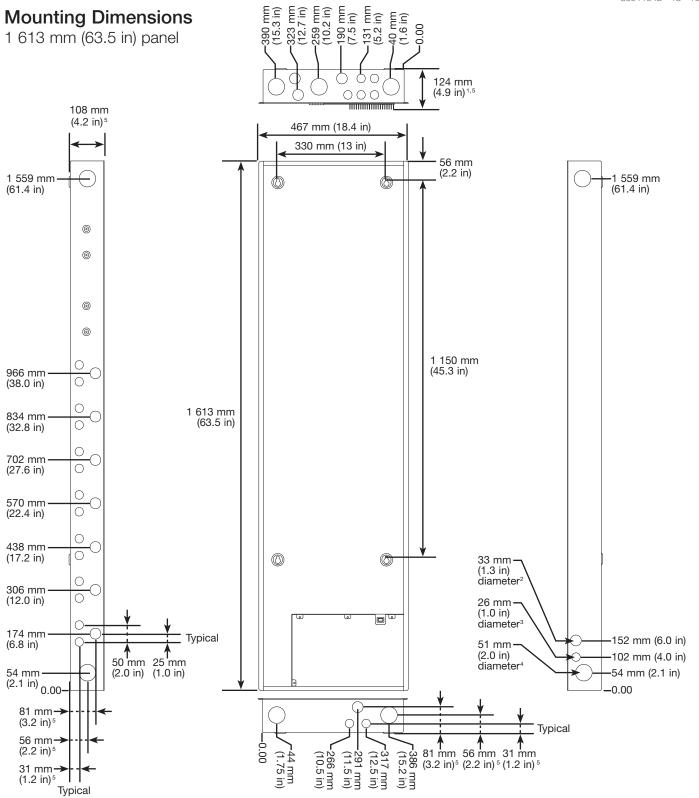
#### **Recess Mounting**

- Mount panel between flush and 3.2 mm (0.125 in) below finished wall surface.
- Leave 38 mm (1.5 in) clearance on each side of panel for cover.
- Use screws sufficient for 50 kg (110 lb).



Job Name:	Model Numbers:
Job Number:	

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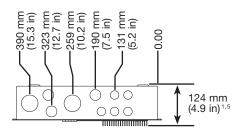
- <sup>1</sup> Maximum dimension shown with phase-adaptive module.
- All medium knockouts shown are 33 mm (1.3 in) diameter.
   All small knockouts shown are 26 mm (1.0 in) diameter.
- <sup>4</sup> All large knockouts shown are 51 mm (2.0 in) diameter.
- <sup>5</sup> Dimensions shown from wall mounting surface.

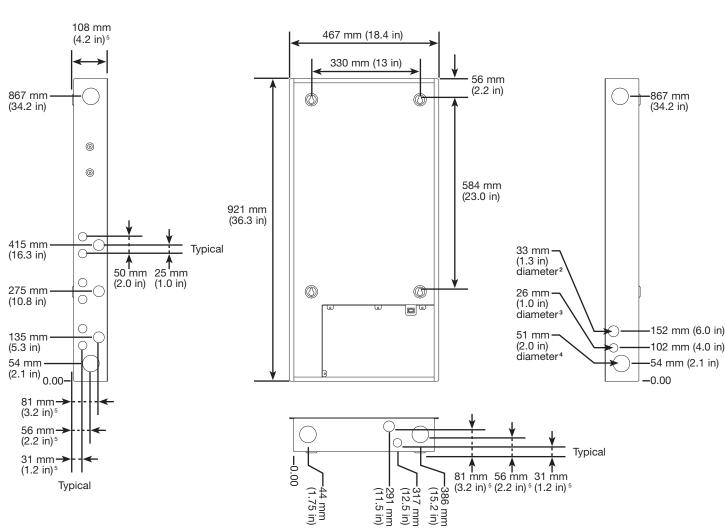
Job Name:	Model Numbers:
Job Number:	

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## **Mounting Dimensions**

921 mm (36.3 in) panel





- <sup>1</sup> Maximum dimension shown with phase-adaptive module.
- All medium knockouts shown are 33 mm (1.3 in) diameter.
   All small knockouts shown are 26 mm (1.0 in) diameter.
   All large knockouts shown are 51 mm (2.0 in) diameter.
- <sup>5</sup> Dimensions shown from wall mounting surface.

Job Name:	Model Numbers:
Job Number:	

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## **Panel Wiring**

#### Wire Sizes

- Line (Mains) Feed (to isolator switch):
   4.0 mm² (12 AWG) to 35 mm² (2 AWG)
- Neutral Feed (to isolator switch): 4.0 mm<sup>2</sup> (12 AWG) to 35 mm<sup>2</sup> (2 AWG)
- Dimmed Line (to terminal block):
   0.14 mm² (26 AWG) to 6.0 mm² (10 AWG)
- Load Neutral (to terminal block):
   0.14 mm² (26 AWG) to 6.0 mm² (10 AWG)

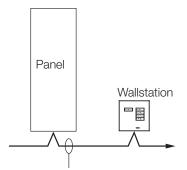
#### Wiring Tips

Wire the panel similar to a Lighting Distribution Panel:

- Run feed and load wiring to appropriate terminal blocks or isolator switch installed in the panel.
- For feed through panels run separate neutrals for each module—no common neutrals across phases.
- The panel can provide temporary lighting:
  - Wire all loads.
  - Do not remove bypass jumpers that are preinstalled for load controlling modules.
  - Use pre-installed breakers to switch lights on and off.

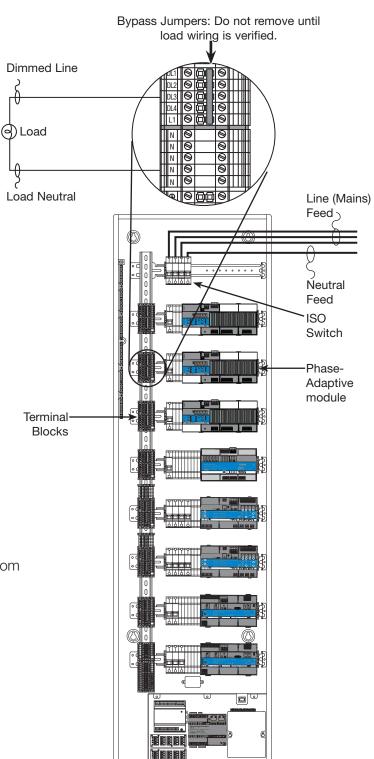
## IEC PELV/SELV Wiring

- IEC PELV/SELV wiring is used for all system communications.
- IEC PELV/SELV wiring must run in a separate trough from line (mains) voltage.
- Must be less than 610 m (2 000 ft) long.



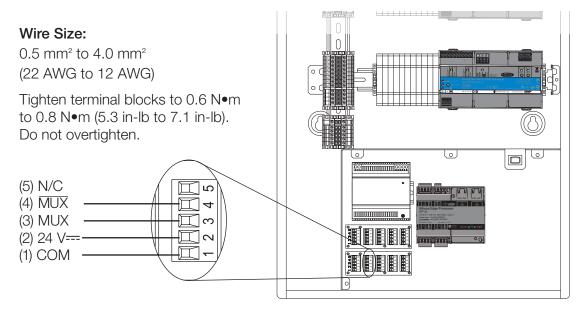
IEC PELV/SELV wiring link (see next page for details)

Job Name:	Model Numbers:
Job Number:	



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## **QS Link Wiring**



## **QS Link Wiring**

QS Link Wiring Length	Wire Gauge	Available from Lutron in one cable:*
	Power (terminals 1 and 2): 1 pair 1.0 mm <sup>2</sup> (18 AWG)	QS-CBL-LSZH (Low-Smoke Zero-Halogen)
Less than 153 m (502 ft)	Data (terminals 3 and 4): 1 pair 0.5 mm <sup>2</sup> (22 AWG), twisted and screened	GRX-CBL-346S (non-plenum) GRX-PCBL-346S (plenum)
150 m to 610 m	Power (terminals 1 and 2): 1 pair 4.0 mm <sup>2</sup> (12 AWG)	GRX-CBL-46L (non-plenum)
153 m to 610 m (502 ft to 2000 ft)	Data (terminals 3 and 4): 1 pair 0.5 mm² (22 AWG), twisted and screened	GRX-PCBL-46L (plenum)

<sup>\*</sup> Varies by region, refer to the cable spec.

#### **Notes**

- System communication uses IEC PELV/SELV wiring.
- Follow all local and national electrical codes when installing IEC PELV/SELV wiring with line voltage/ mains wiring.
- Each terminal accepts up to two 1.0 mm² (18 AWG) wires or one 4.0 mm² to 0.5 mm² (12 AWG to 22 AWG) wire.
- Make all connections inside the panel.
- Refer to the QS Link Power Draw Units
   Specification Submittal (Lutron P/N 369405 at www.lutron.com) and the table above for information concerning Power Draw Units (PDUs).
- Wiring can be T-tapped or daisy-chained.

Job Name:	Model Numbers:
Job Number:	

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#### **DIN Modules**

#### QS Link Limits: QP-2L Processor

- Each QS Link is capable of supporting 512 switch legs (controllable outputs)
- Athena Edge processors are equipped with two QS Links

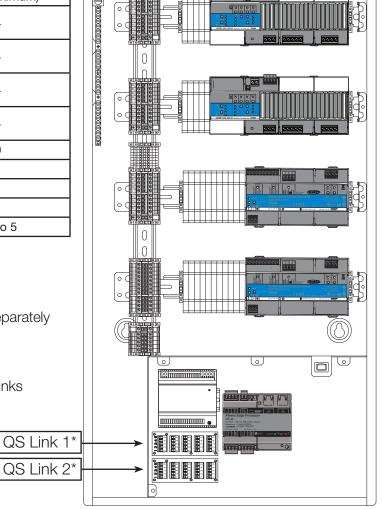
## **QS Device Consumption Rules**

The table below lists some of the devices available on the QS Link and the number of switch legs each will consume. This list is for reference only and is not all inclusive.

QS Device Description	Switch Leg Count
Digital Controls (Energi Savr Node QS)	1 per DALI₃ Universal address used (128 maximum)
LED PRO+ Phase Adaptive Fixture Controls (Energi Savr Node QS)	4
Switching Controls (Energi Savr Node QS)	4
0–10 V== Controls (Energi Savr Node QS)	4
Motor Controls (Energi Savr Node QS)	4
seeTouch QS	0
Sivoia QS Roller 64	1
Sivoia QS Roller 100	1
Sivoia QS Roller 225	1
QS contact closure interface	up to 5

## QS Link Management

- 4 DALI<sub>®</sub> Universal modules or less
  - 1 Wire Landing Board wired to a single QS link
  - 2nd Wire Landing Board (Optional Purchase Separately [QS-WLB])
- 5 DALI<sub>®</sub> Universal modules or more
  - 2 Wire Landing Boards
  - Each Wire Landing Board wired to separate QS Links
  - Bottom 4 modules wired to QS Link 1
  - Remaining top modules are wired to QS Link 2



\* QS Link Number terminology used for explanation only

It is the responsibility of the installer to connect QS Link cables to the Wire Landing Board correctly in accordance to the above

Job Name:	Model Numbers:
Job Number:	

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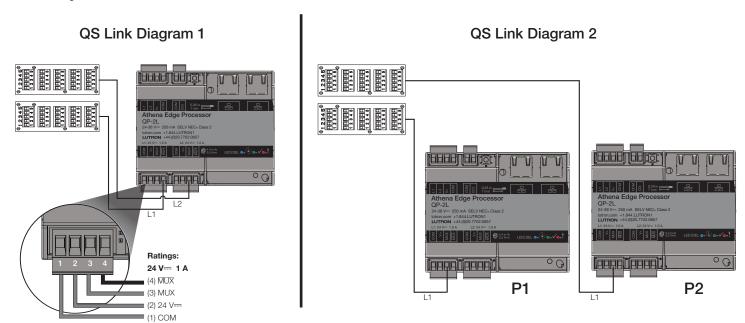
## **DIN Modules** (continued)

#### **QS Link Management**

The table below provides a reference for managing the QS Link wiring to and from panels equipped with DALI<sub>®</sub> Universal modules.

Number of Processors in Panel	DALI <sub>®</sub> Universal Modules	QS Link Wiring - Installation Guide
0	4 or less	Connect QS Link to single wire landing board from external processor
	5 or more	Connect separate QS Links to wire landing boards 1 and 2. Wire landing boards cannot share the same QS Link.
1	4 or less	Processor pre-wired with Link 1 (L1) to all modules. External zones should be wired to Link 2 (L2) on processor if applicable.  – 2 <sup>nd</sup> wire landing board available as field installable option
	5 or more	Processor pre-wired with Link 1 (L1) to upper wire landing board (bottom 4 modules) and Link 2 (L2) to lower wire landing board (all remaining modules). External zones should be wired according to job specification, preferably an external processor. See <b>QS Link Diagram 1</b> below.
2	4 or less	Processor 1 (P1) pre-wired with P1 Link 1 (L1) on top wire landing board (all modules), P1 Link 2 (L2) is open. Processor 2 (P2) is pre-wired with P2 Link 1 (L1) on bottom landing board (no modules), P2 Link 2 (L2) is open. All external zones should be wired to P1 L2, P2 L1, or P2 L2. See <b>QS Link Diagram 2</b> below.
	5 or more	Processor 1 (P1) is pre-wired with P1 Link 1 (L1) on upper wire landing board (bottom 4 modules), P1 Link 2 (L2) is open. Processor 2 (P2) pre-wired with P2 Link 1 (L1) on lower wire landing board (all remaining modules), P2 Link 2 (L2) is open. All external zones should be wired to P1 L2 or P2 L2. See <b>QS Link Diagram 2</b> below.

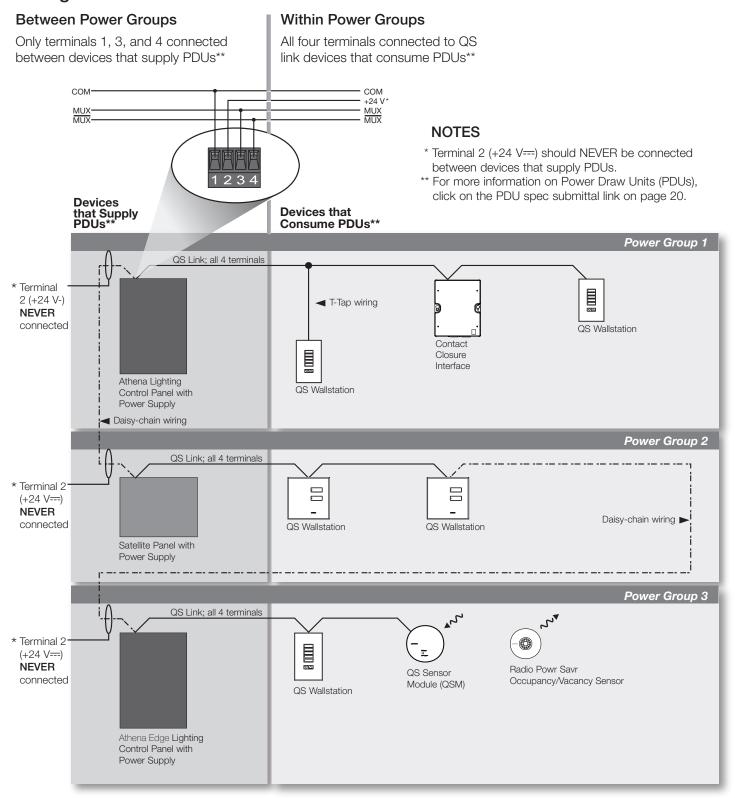
It is the responsibility of the installer to connect QS Link cables to the Wire Landing Board correctly in accordance to the above



Job Name:	Model Numbers:
Job Number:	

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## Wiring: QS Link



Job Name:	Model Numbers:
Job Number:	

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## Module and Interface Specification Submittals

Product	P/N
LED PRO+ Phase Adaptive Module	3691158
Energi Savr Node for 0–10 V==-/10 A Switching Module	3691182
Motor Control Module	369584
Energi Savr Node for DALI <sub>®</sub> Universal Module	3691142
Energi Savr Node for Switching	3691079
QSE-CI-DMX Control Interface	369372
QSE-IO Control Interface	369374
QSE-CI-NWK-E Control Interface	369373
Power Supply	369404
Power Draw Units (PDU)	369405
QS Wire Landing Board	369662

Job Name:	Model Numbers:
Job Number:	

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## **Athena Security Statement**

Lutron takes cybersecurity very seriously. We actively monitor the threat landscape and take a proactive approach to security and privacy, continuously working to update and enhance our systems and processes.

At Lutron, we call our approach to cybersecurity "Secure Lifecycle", and we would like to present the following steps we take to protect your security and privacy:

- **Security by Design.** When building a new system, Lutron utilizes a dedicated security team to ensure best practices are implemented. Security is built in. It is not an afterthought or an add-on.
- Third-Party Validation. Security is complicated. Lutron has a dedicated team of internal experts, but we also leverage external experts to double-check our work, and to make security recommendations.
- Continuous Monitoring and Improvements. Security is a constantly moving target. Lutron uses a dedicated security team to continuously monitor for potential threats and, when needed, send out security patches to update installed systems.
- Ongoing Support. Lutron has the resources you need to answer questions about security when they arise We incorporate a variety of security features into our product designs. These features include recommendations from the National Institute of Standards and Technology (NIST) among others, and they are aimed at meeting our secure lifecycle protections. While we do not publish a comprehensive list of our security features, the following list is a small example of some of the techniques employed in our system designs for Athena Processors, Light Management Hubs, Clear Connect Type X Gateway devices and associated services (such as mobile applications and cloud resources):
  - 1. Secure and authenticated remote access with unique keys for every Athena system
  - 2.A secure hardware element ("chip") on all Athena processors and Clear Connect Type X Gateway to guard the keys used for secure communication and authentication
  - 3. Enforcing industry-standard encrypted communication and techniques for our integration protocols to the highest extent possible. Any integrated third-party components or systems should be evaluated independently.
  - 4. Secure commissioning all communication between the system programming software tool/app and the processors is encrypted and authenticated. Programming a system requires permission to access that system.
  - 5. Security updates are pushed out automatically to the lighting system for urgent security patches. Lutron is committed to one year of security support from system start-up date.
  - 6. Use of industry-standard techniques for cloud-based integrations, such as OAuth2.0
  - 7. Signed processor firmware to ensure a firmware update is authentically from Lutron.

If you have additional questions or would like to make a vulnerability disclosure to Lutron, please contact Lutron's 24/7 Technical Support Line at 1.844.LUTRON1 or support@lutron.com.

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Job Name:	Model Numbers:
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Job Number:	