HomeWorks® QS 1-Link Processor

The HomeWorks® QS processor provides control and communication to HomeWorks® QS system components.

The Ethernet link allows communication to the HomeWorks® QS software, integration with third-party systems and communication between multiple processors. HomeWorks® QS processors may be connected using either standard networking or using ad-hoc networking. All processors on a project must be connected to a single network. The HomeWorks® QS software and all integration equipment must be connected to the same network as the processors.

The processor is powered from the QSPS-DH-1-75 power supply. Refer to the HomeWorks® QS software to determine link power requirements.

The HomeWorks® QS processor can be installed in an HQ-LV21, L-LV21, L-LV14, PNL-8 enclosure or DIN panels with control compartments (PDx-36 or PDx-64).







Processor Capabilities

Each HomeWorks® QS 1-Link processor has one link that can be configured as one of four types:

- HomeWorks® QS Power Panels
  16 interfaces / 256 zones
- HomeWorks® QS Wired Device Link
  99 devices / 512 zones
- HomeWorks® QS RF Link
  99 devices / 100 zones
- HomeWorks® H48 Wired Dimmers
  4 interfaces / 192 zones

Model Number

HQP6-1 HomeWorks® QS 1-Link Processor

HomeWorks® QS 1-Link Processor

Specifications

Model Number	HQP6-1	
Power	Processor (P): 24–36 V⎓ 250 mA maximum	
Typical Power Consumption	5 W; 8 Power Draw Units (PDUs) Test conditions: Ethernet link connected, and device link in use	
Regulatory Approvals	Complies with: UL508, CSA - C22.2 No.14, IEC / EN 60669, NOM	
Environment	Indoor use only. 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing	
Heat Generated	17 BTU/hr — typical (24 BTU/hr maximum)	
Cooling Method	Passive Cooling	
Power Failure Memory	System data stored in non-volatile memory. Timeclock retention for 10 years	
Internal Timeclock	±1 minute per year	
Miswire Protection	All terminal block inputs are over-voltage and miswire protected against wire reversals and shorts.	
Low-Voltage Link Wire Type	Two pair — one pair 18 AWG (0.75 mm^2), one pair 18 to 22 AWG (0.34 to 0.75 mm^2) twisted shielded — IEC PELV / NEC® Class 2 cable	
Low-Voltage Power Wire Type	18 AWG (0.75 mm^2)	
Communications	Ethernet, RS485 (QS, RF, Power Panel)	
Link Capacities	HomeWorks® QS Power Panel Link HomeWorks® QS Wired Device Link HomeWorks® QS RF Link HomeWorks® H48 Wired Dimmers	16 interfaces/256 zones 99 devices/512 zones 99 devices/100 zones 4 interfaces/192 zones
ESD Protection	Meets or exceeds the IEC 61000-4-2 standard	
Surge Protection	Meets or exceeds ANSI/IEEE C62.41 standard	
Mounting	Mounts in HQ-LV21, L-LV14, L-LV21, PNL-8 enclosure or DIN Panels with Control Compartment (PDx-36 or PDx-64)	
Dimensions	With terminal blocks (as shown): 4.27 in (108 mm) x 5.63 in (143 mm) Without terminal blocks: 4.27 in (108 mm) x 5.26 in (134 mm)	
Connections	One 5-pin removable terminal block* for Link 1. One RJ45 standard Ethernet connection. *Each terminal will accept up to two 18 AWG (0.75 mm^2) wires.	
Warranty	www.lutron.com/TechnicalDocumentLibrary/Warranty.pdf www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf	

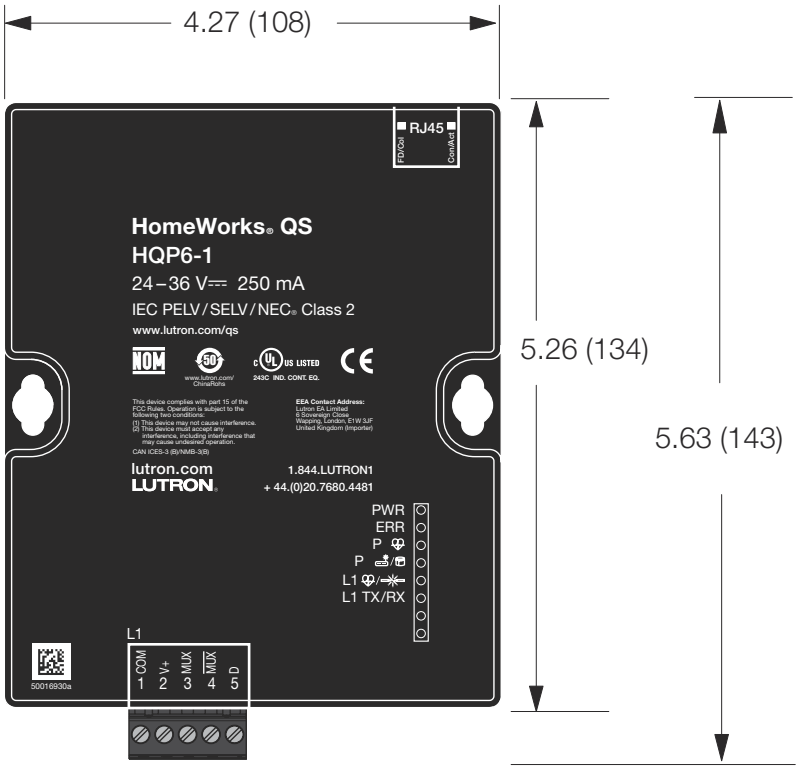
NEC is a registered trademark of the National Fire Protection Association, Quincy, Massachusetts.

HomeWorks® QS 1-Link Processor

Dimensions

Dimensions shown as: in (mm)

Front View

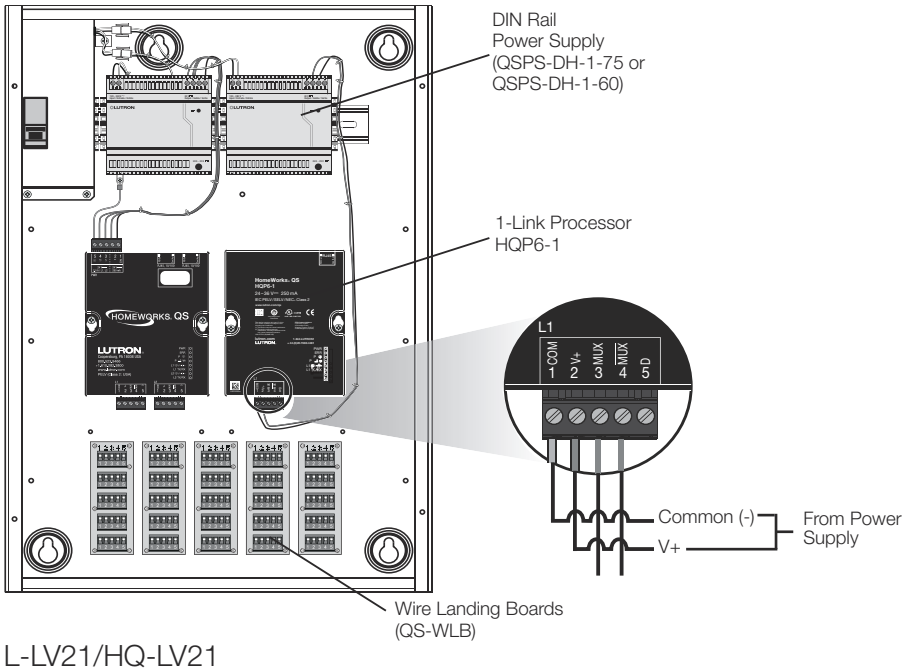


Side View

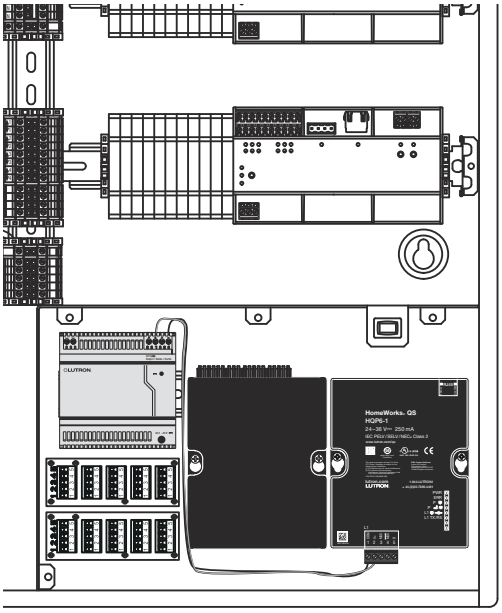


HomeWorks® QS 1-Link Processor

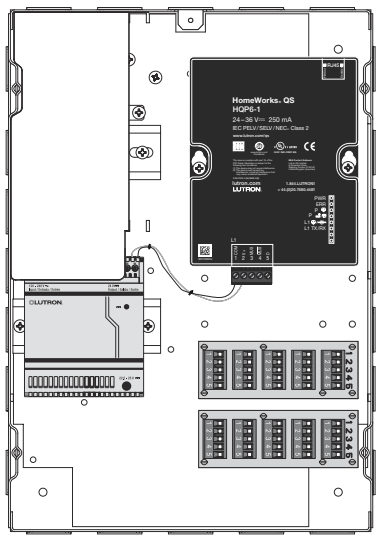
Mounting



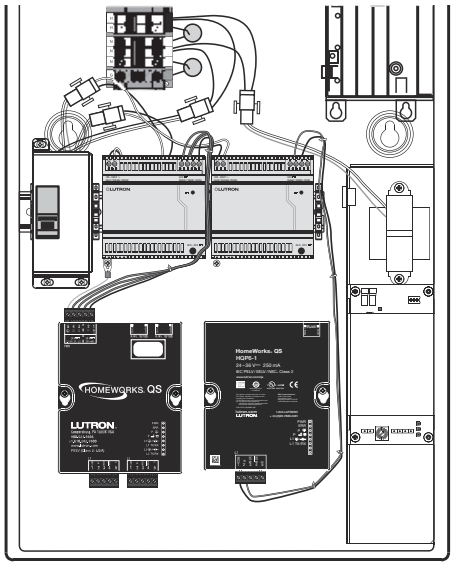
L-LV21/HQ-LV21



PDx-36/64



L-LV14

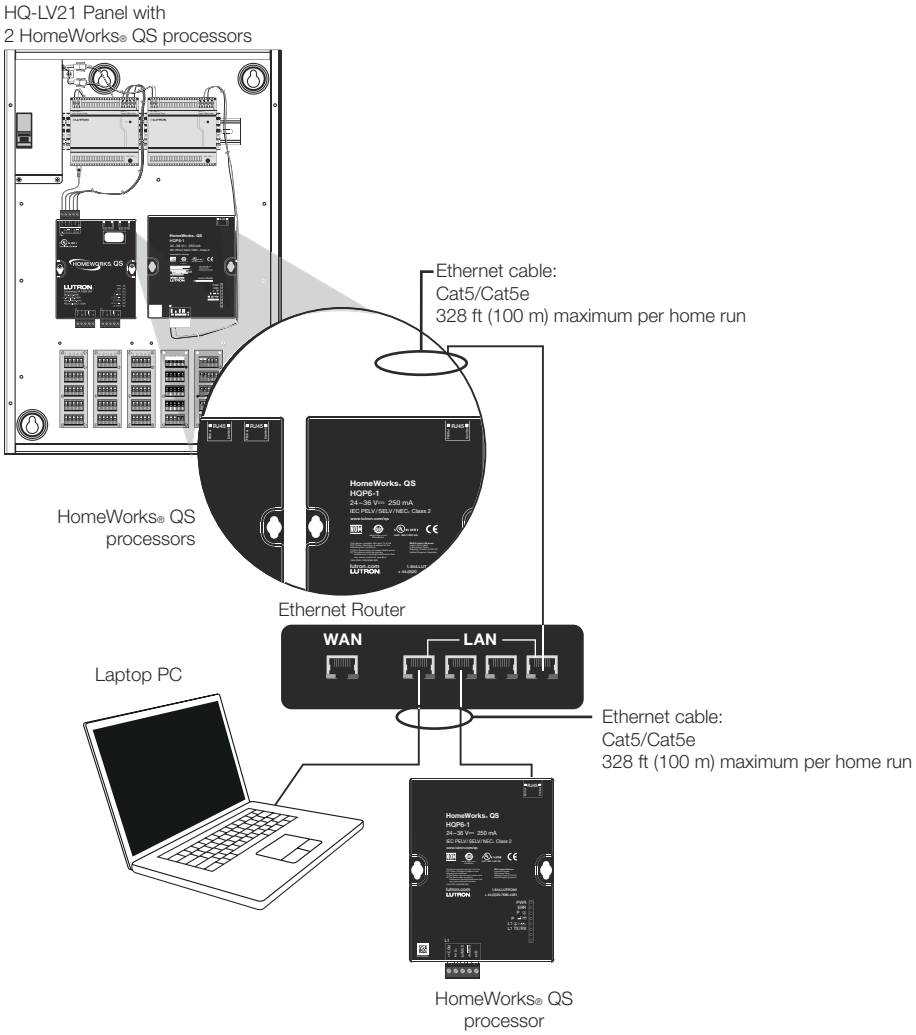


PNL-8

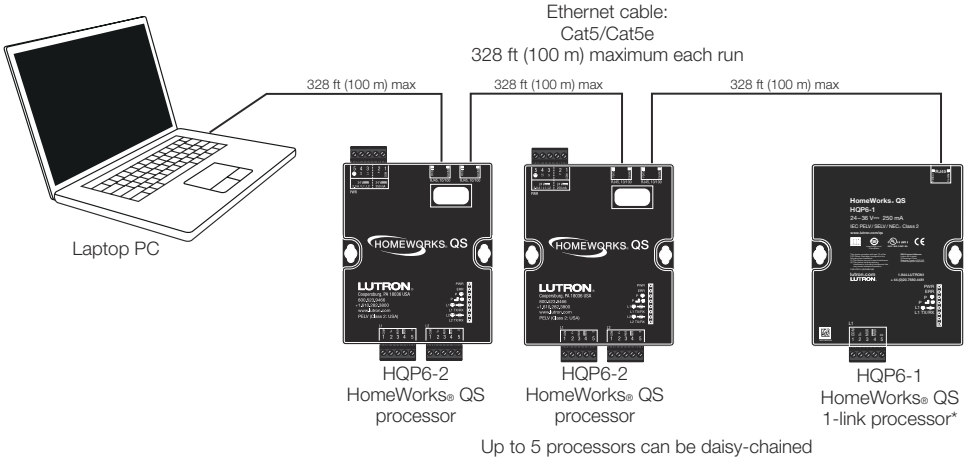
HomeWorks® QS 1-Link Processor

Wiring Diagrams — Networking

Standard Networking: Connection using an Ethernet hub/switch/router



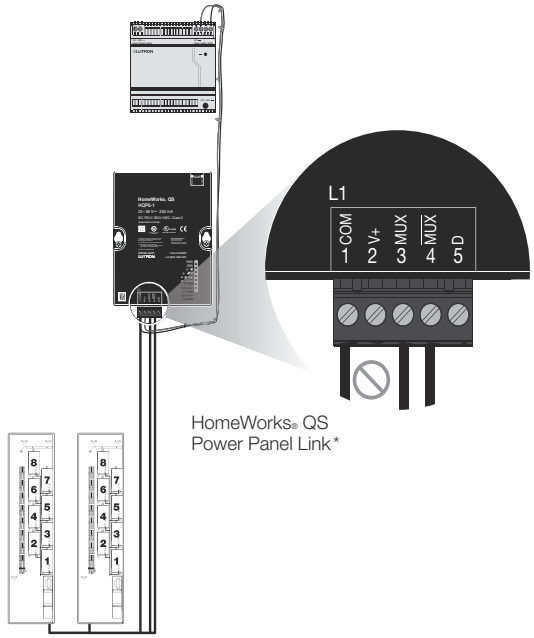
Ad-hoc Networking: Direct Ethernet connection from PC to processors



* **NOTE:** HQP6-1 can only be used as the last device on an Ad-hoc network.

HomeWorks® QS 1-Link Processor

Wiring Diagrams — Power Panel Link

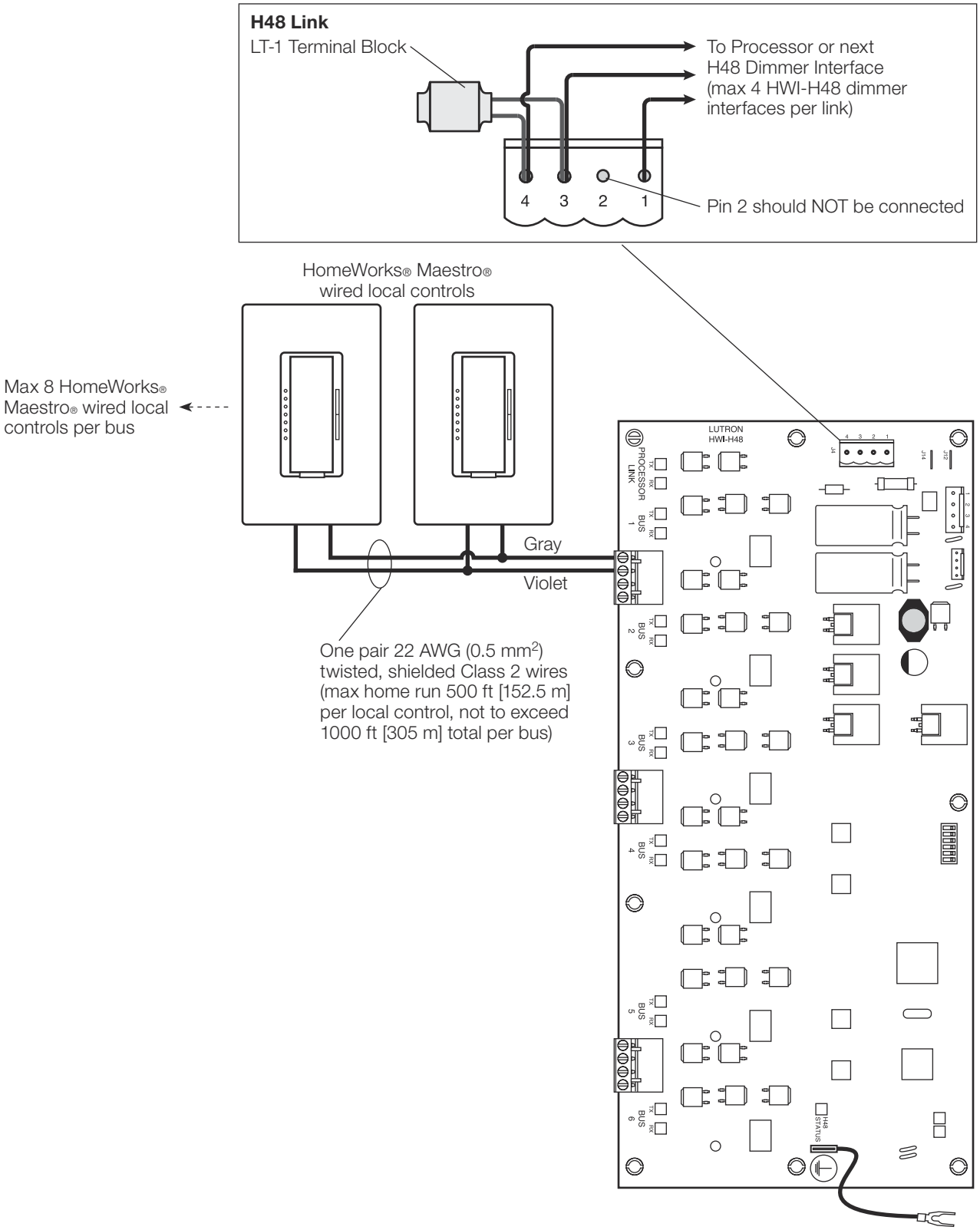


Up to 16 addresses total

* Pin 2 does not get connected when using a power panel link.

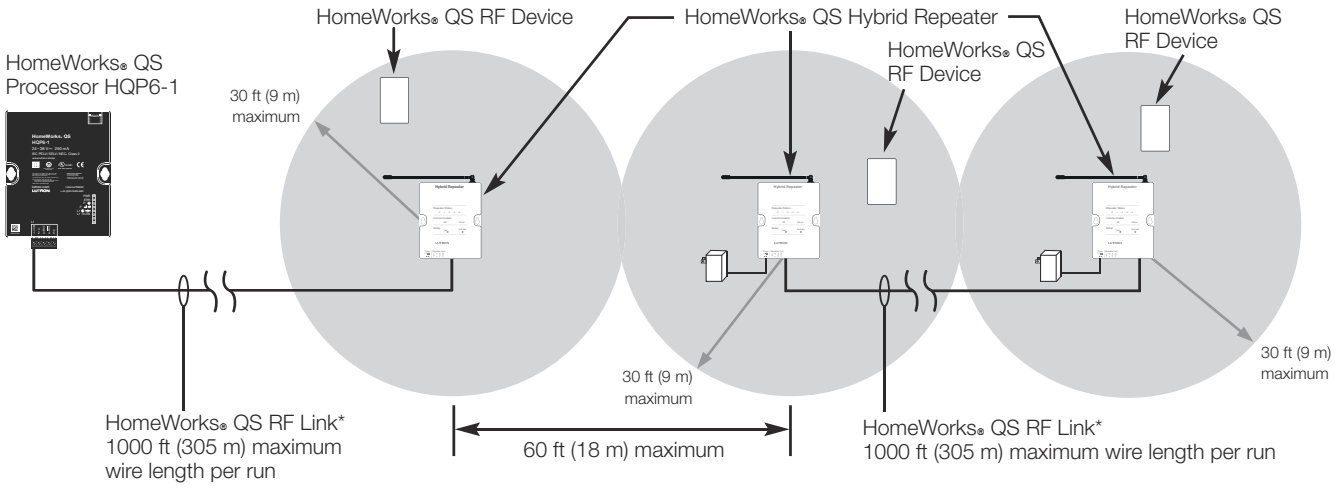
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Wiring Diagrams — H48 Dimmer Interface



HomeWorks® QS 1-Link Processor

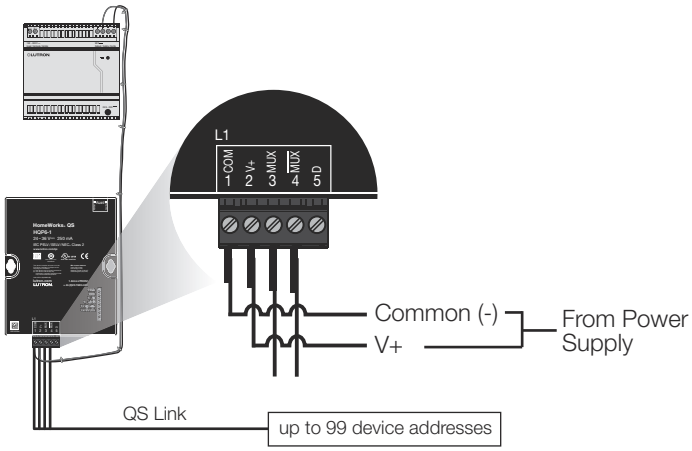
Wiring Diagrams—HomeWorks® QS RF Link



* HomeWorks® QS Hybrid Repeaters can be powered from a power supply on the wired RF link or from a wall-mounted transformer. If powering from a wall-mounted transformer, Pin 2 does not get connected.

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Wiring Diagrams — QS Link



HomeWorks® QS 1-Link Processor

Wiring Diagrams—QS Wired Device Link with Shades / Draperies (Controllable Window Solutions)

