

HomeWorks® QS Processor

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

The Ethernet links allow 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 or QSPS-DH-1-60 power supply. Refer to the HomeWorks® QS software to determine link power requirements.

The HomeWorks® QS processor can be installed in a HQ-LV21, L-LV21, L-LV14, or PNL-8 enclosure.

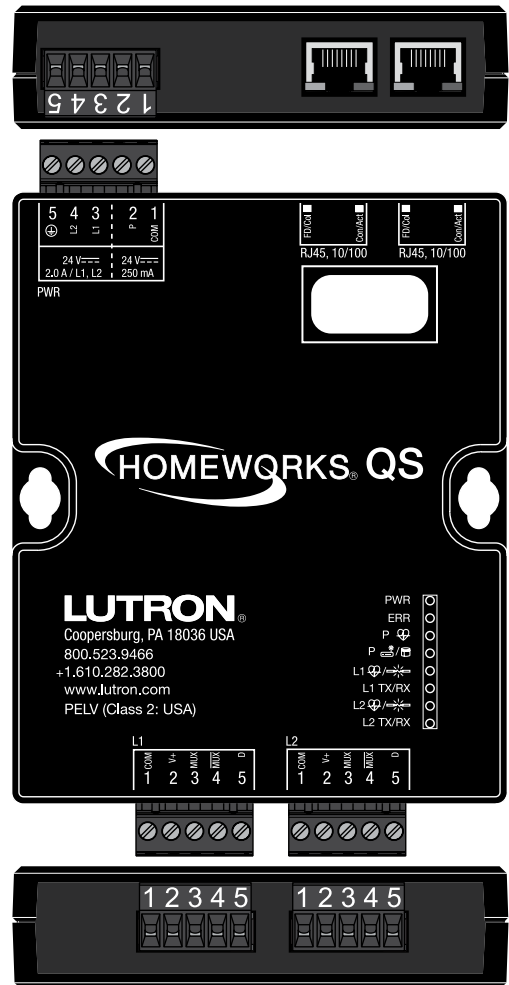
Processor Capabilities

Each HomeWorks® QS processor has 2 links that can be individually configured as one of four types:

- HomeWorks® / 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® / HomeWorks® QS Wired Dimmers
4 interfaces / 192 zones

Model Number

HQP6-2 HomeWorks® QS Processor



HomeWorks® QS Processor

Specifications

Model Number	HQP6-2	
Power	Processor (P): 24 V $\overline{=}$ 250 mA Links (L1 / L2): 24 V $\overline{=}$ 2 A per link	
Typical Power Consumption	5 W; 8 Power Draw Units (PDUs) Test conditions: Two Ethernet links connected, both device links in use	
Regulatory Approvals	UL, cUL, CE, CTICK	
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 with 2 links at 2 A each output)	
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® / 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® / HomeWorks® QS Wired Dimmers	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, or PNL-8 enclosure	
Dimensions	With terminal blocks (as shown): 4.27 in (108 mm) x 6.0 in (152 mm) Without terminal blocks: 4.27 in (108 mm) x 5.26 in (134 mm)	
Connections	Two 5-pin removable terminal blocks* for Links 1 and 2. One 5-pin removable terminal block* for Power Input. Two RJ45 standard Ethernet connections. *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	

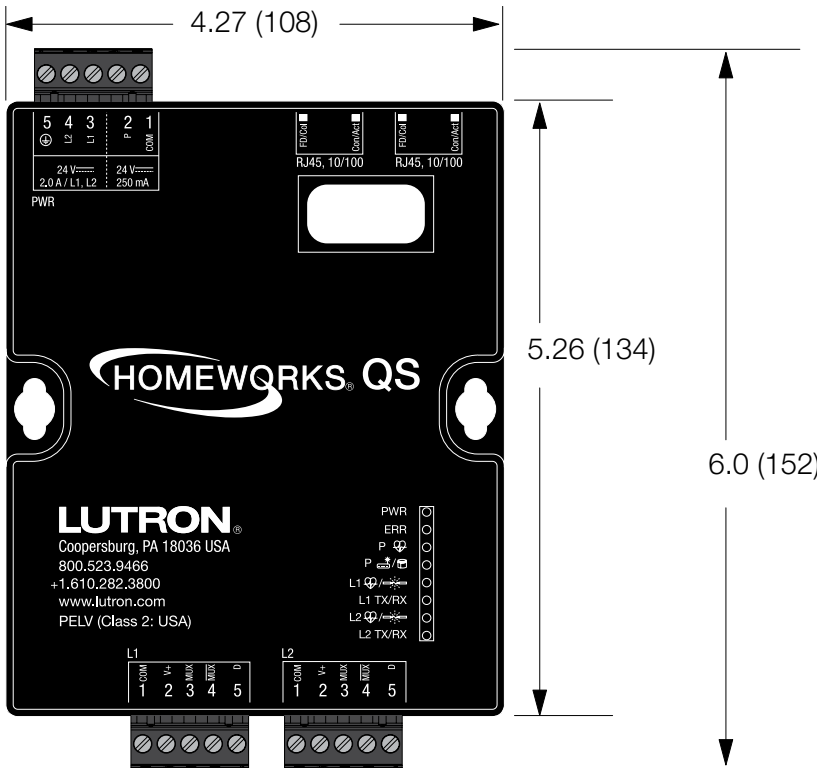
NEC is a registered trademark of the National Fire Protection Association, Quincy, Massachusetts.

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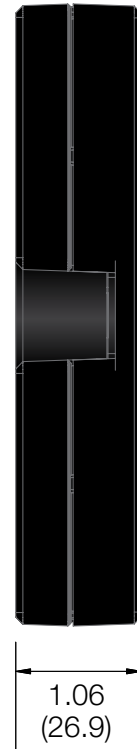
Dimensions

Dimensions shown as: in (mm)

Front View

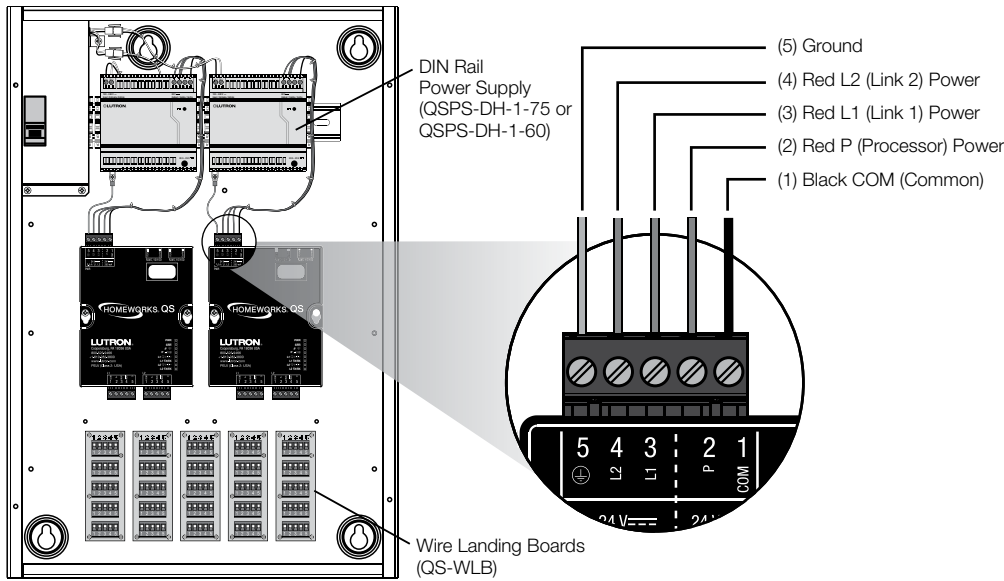


Side View

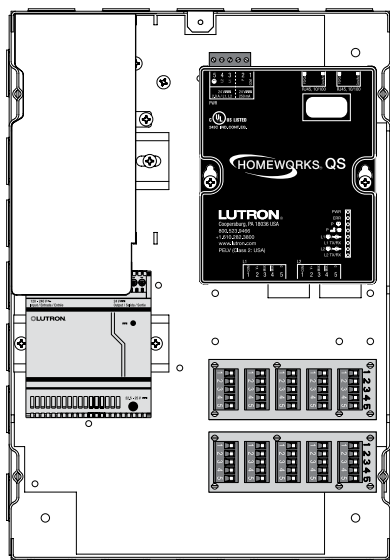


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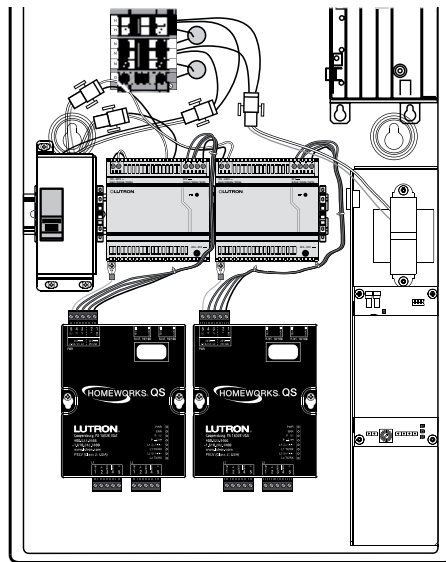
Mounting



L-LV21/HQ-LV21



L-LV14



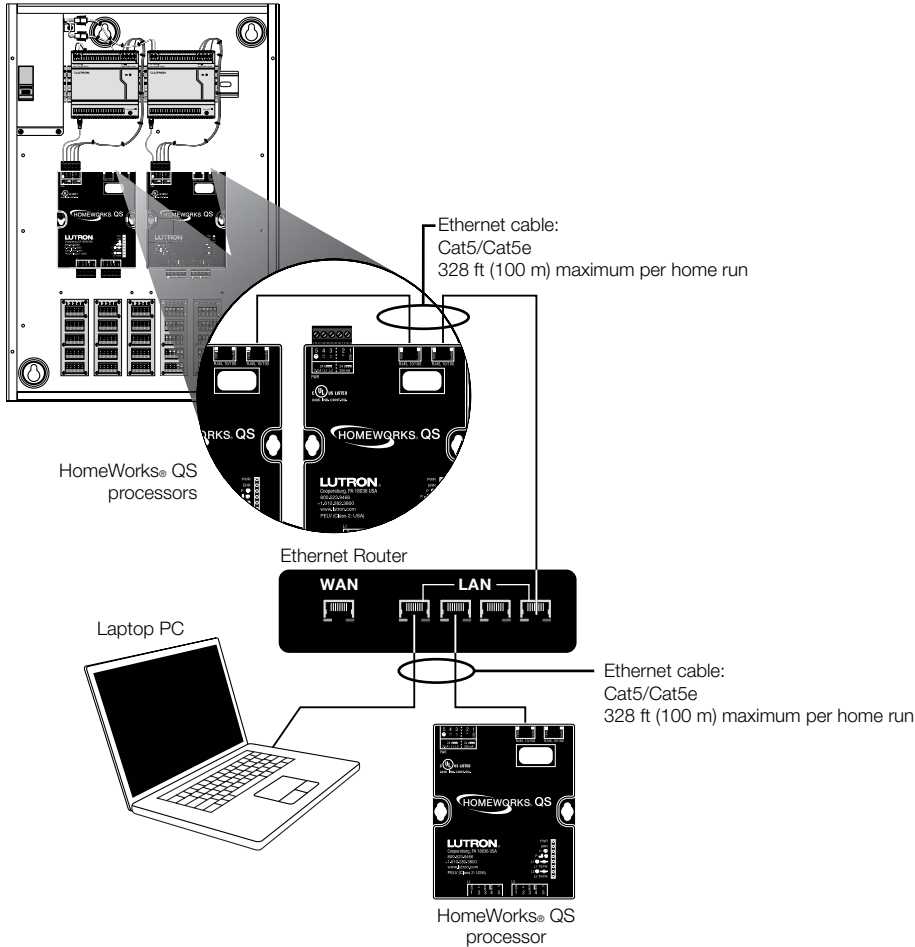
PNL-8

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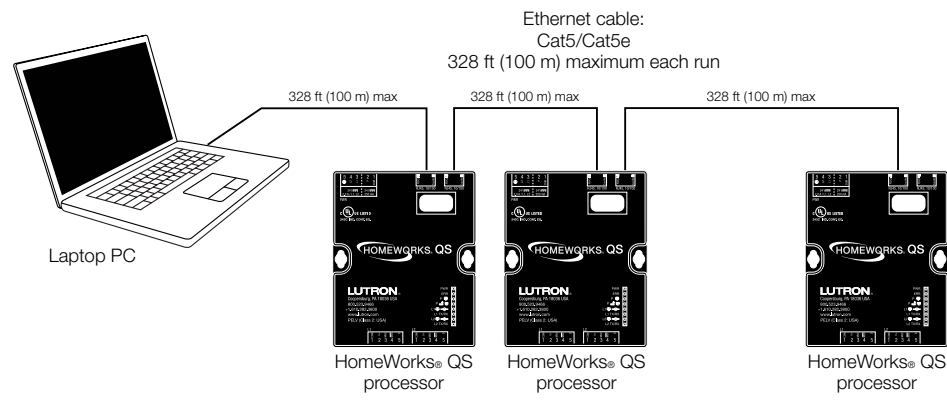
Wiring Diagrams – Networking

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

HQ-LV21 Panel with
2 HomeWorks[®] QS processors



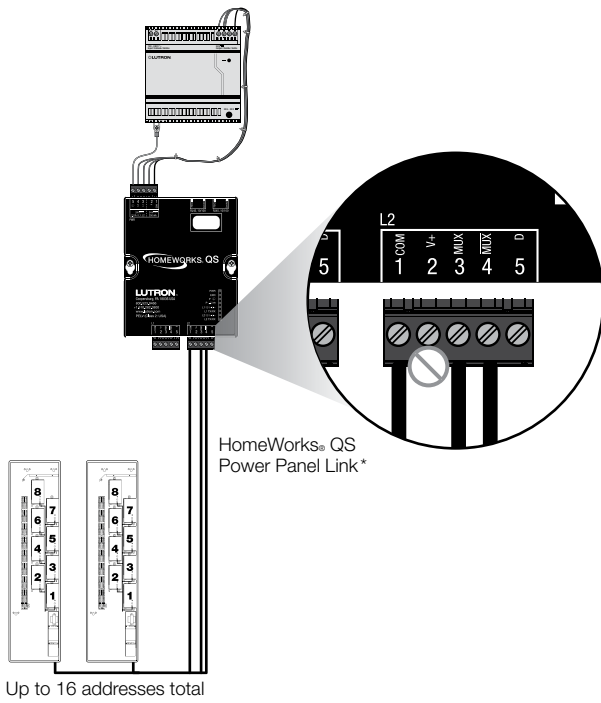
Ad-hoc Networking: Direct Ethernet connection from PC to processors



Up to 5 processors can be daisy-chained

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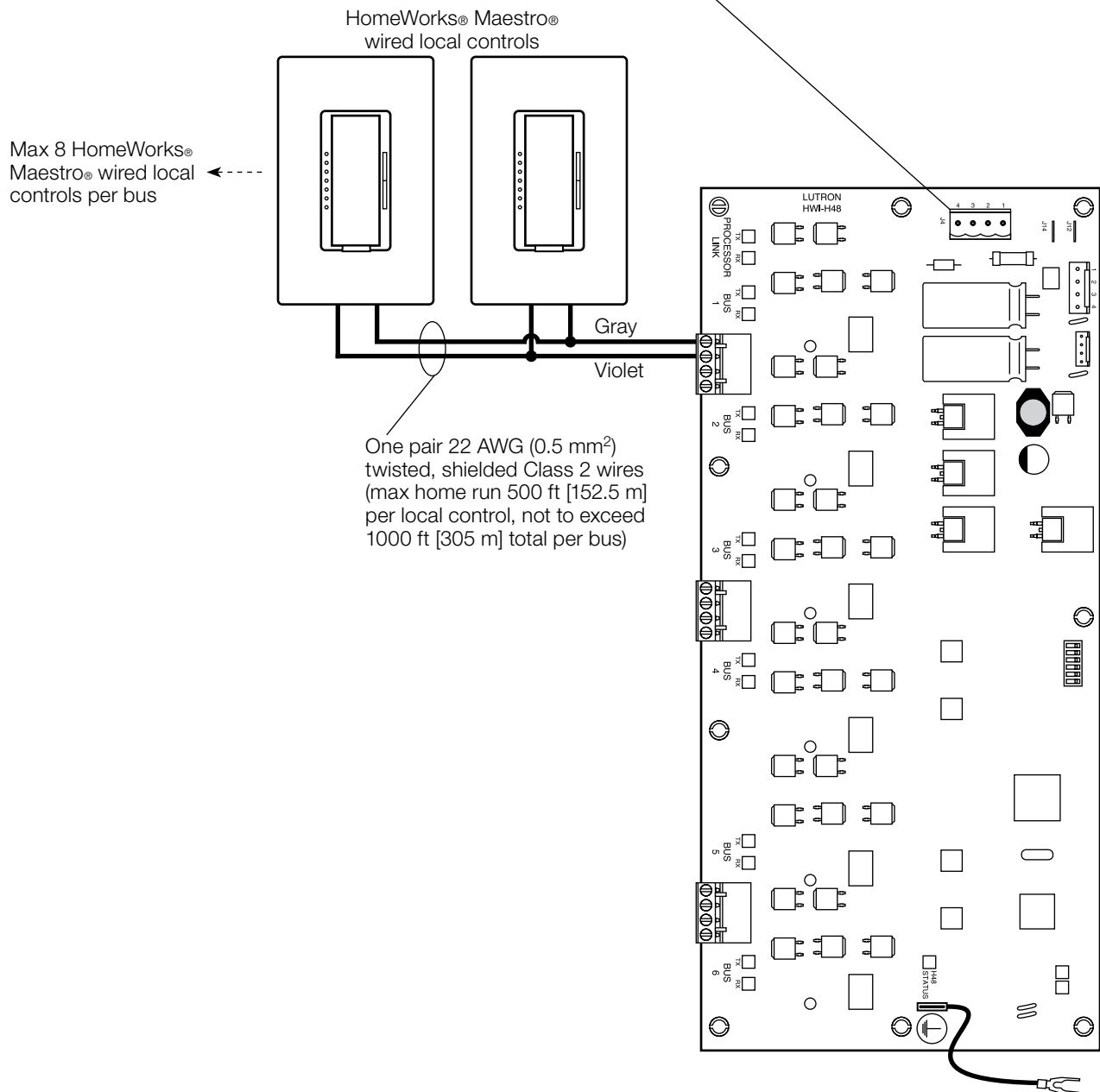
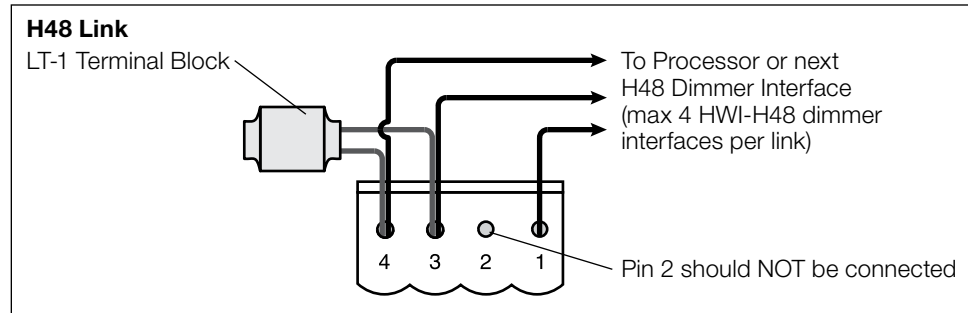
Wiring Diagrams – Power Panel Link



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

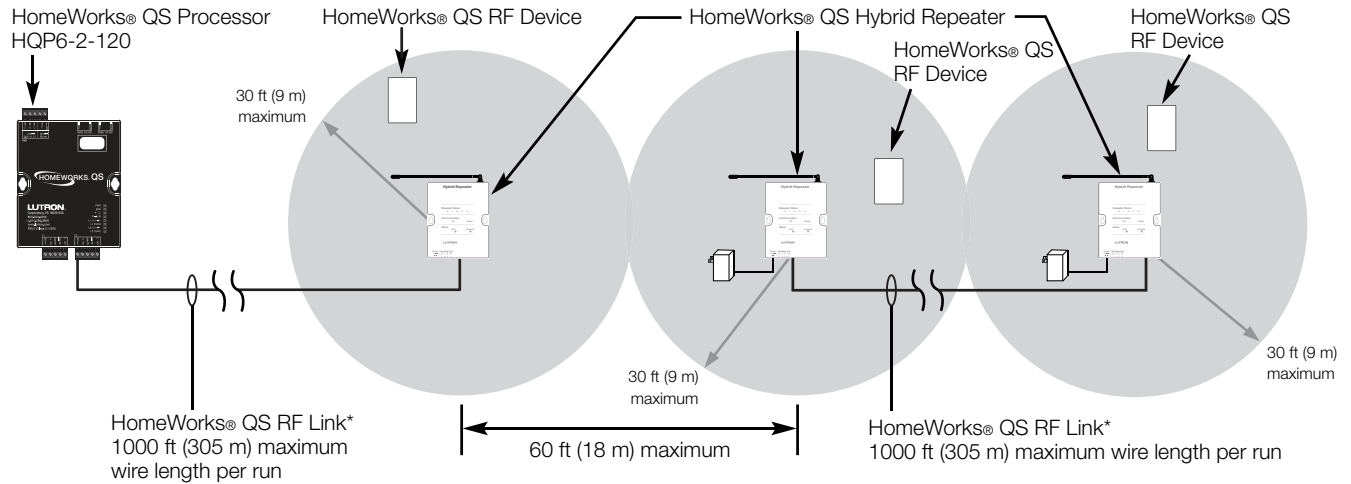
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Wiring Diagrams – H48 Dimmer Interface



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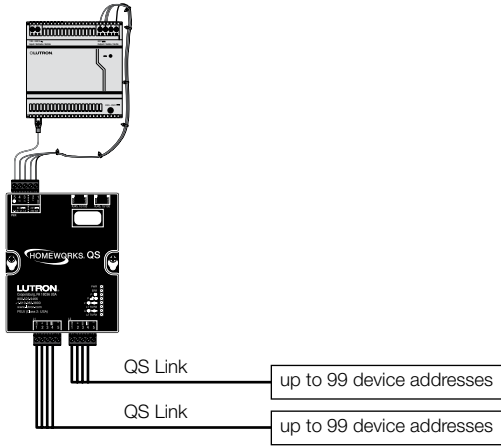
Wiring Diagrams – HomeWorks[®] QS RF Link



* HomeWorks[®] QS Hybrid Repeaters can be powered from the Processor link or a wall-mount transformer. If powering from a wall-mount transformer, Pin 2 does not get connected.

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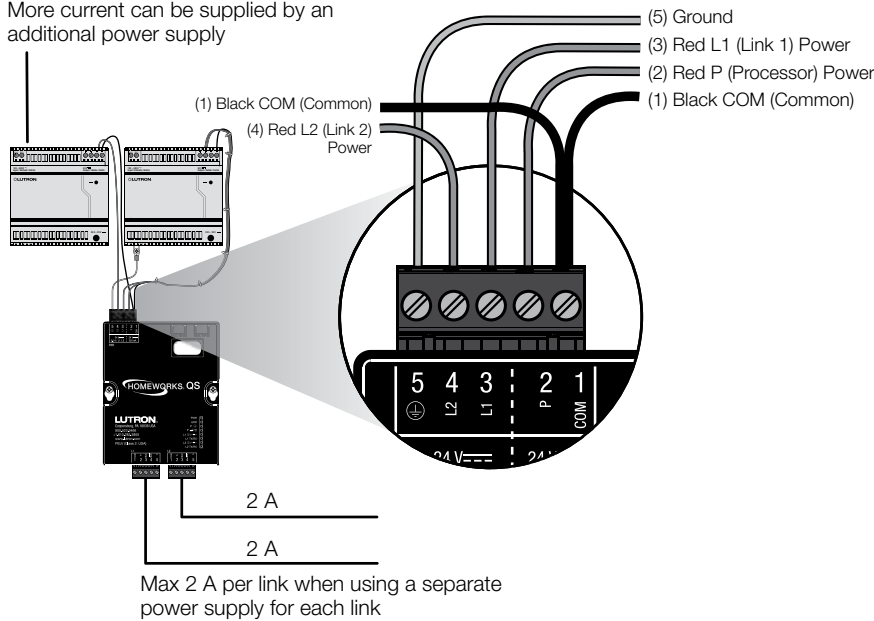
Wiring Diagrams – QS Link



Maximum 2 A combined current draw from processor when powering both links from the same power supply.

Wiring Diagrams – Link Power

More current can be supplied by an additional power supply



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

