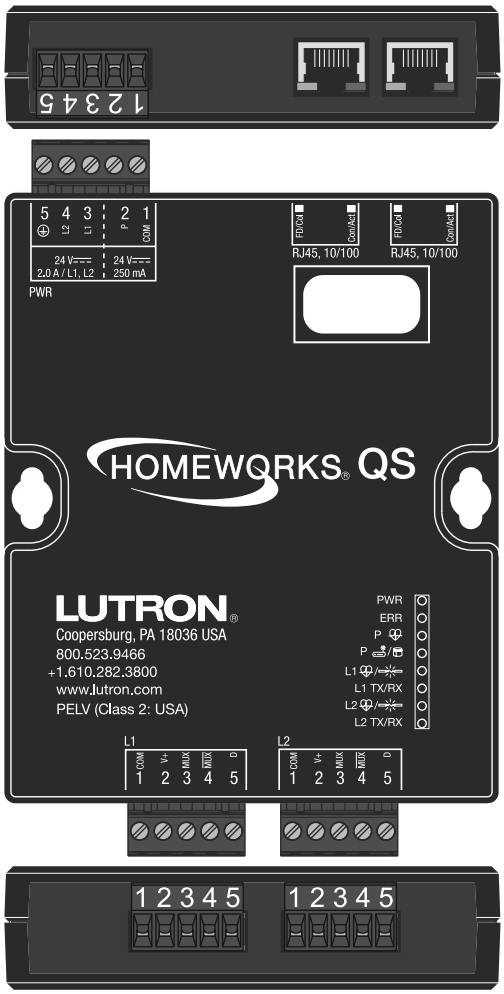
HomeWorks QS Processor

The QS processor provides control and communication to HomeWorks 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 QS processor can be installed in a HQ-LV21, L-LV21, L-LV14, or PNL-8 enclosure.



Processor Capabilities

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

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

Model Number

HQP6-2 HomeWorks QS Processor

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HomeWorks QS Processor

Specifications

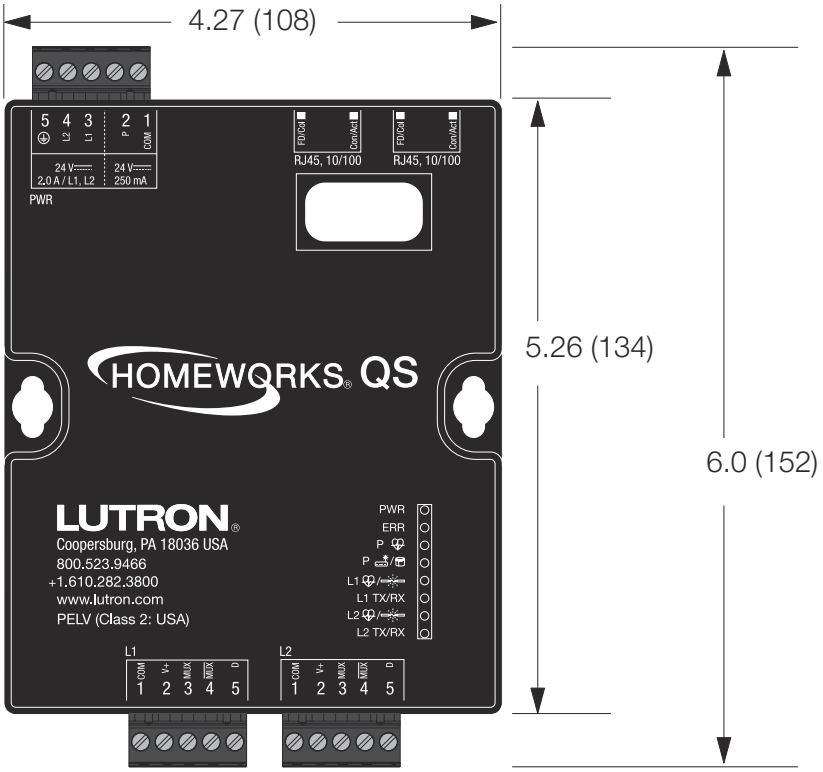
Model Number	HQP6-2	
Power	Processor (P): 24–36 V⎓ 250 mA Links (L1 / L2): 24–36 V⎓ 2 A per link	
Typical Power Consumption	5 W; 8 Power Draw Units (PDUs) Test conditions: Two Ethernet links connected, both device links in use	
Regulatory Approvals	UL, cUL, CE, NOM	
Environment	Indoor use only. 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing	
Heat Generated	17 BTU/hr — typical (24 BTU/hr 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 Power Panels HomeWorks QS Wired Device Link HomeWorks RF Link HomeWorks 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, 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	

HomeWorks QS Processor

Dimensions

Dimensions shown as: in (mm)

Front View

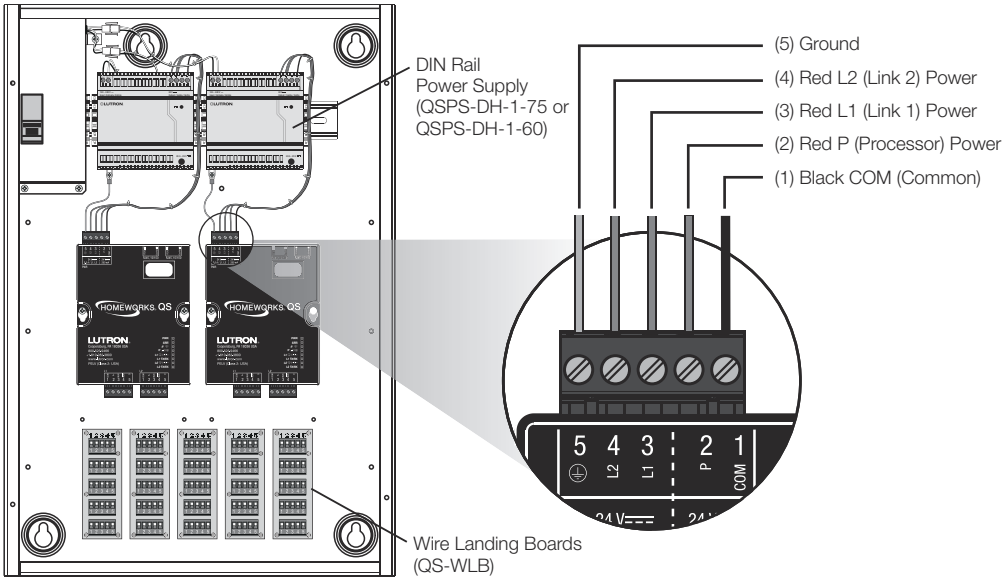


Side View

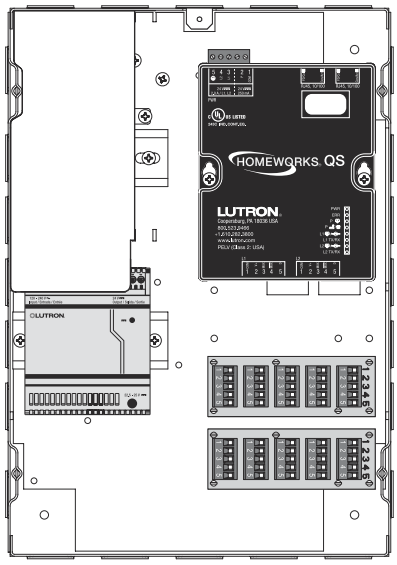


HomeWorks QS Processor

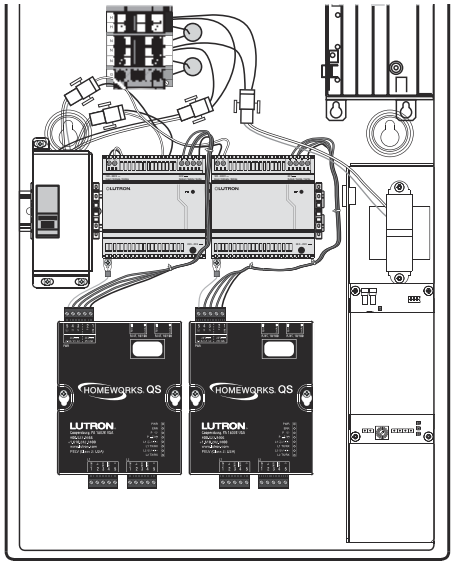
Mounting



L-LV21/HQ-LV21



L-LV14

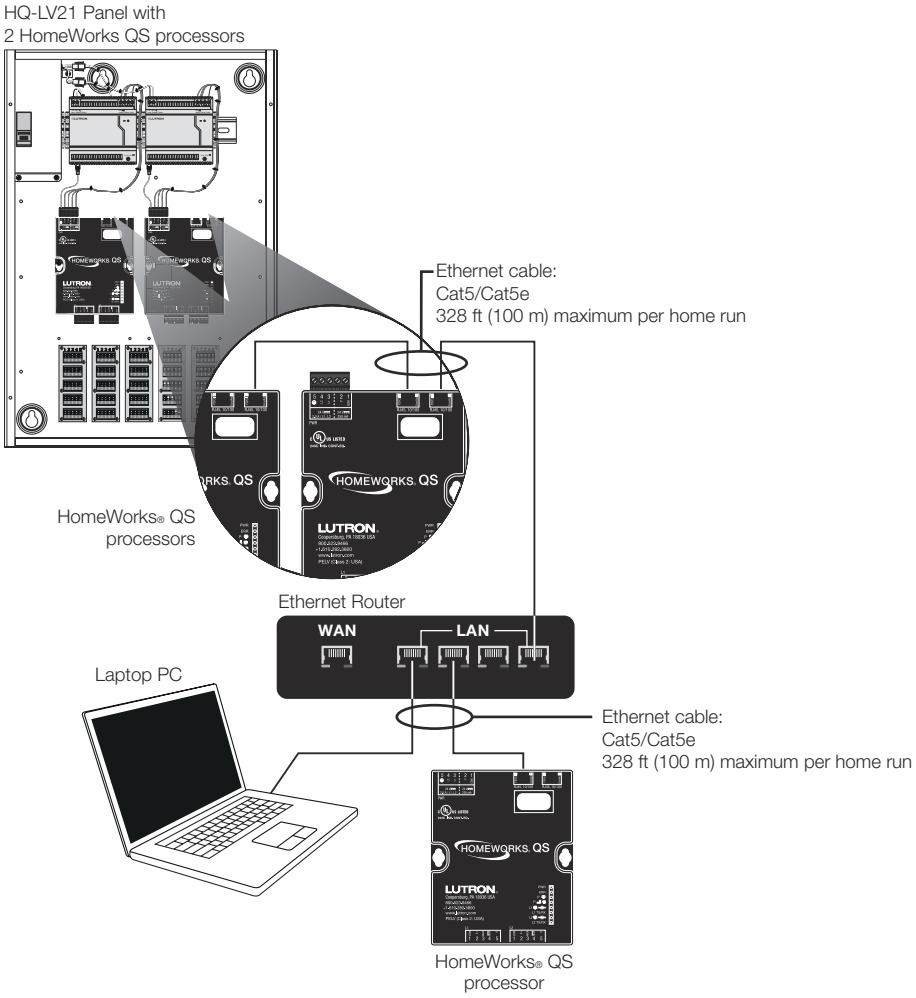


PNL-8

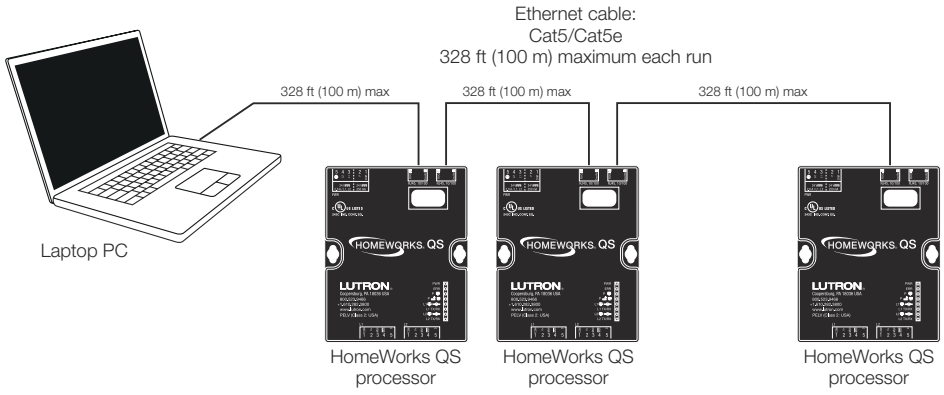
HomeWorks QS Processor

Wiring Diagrams—Networking

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



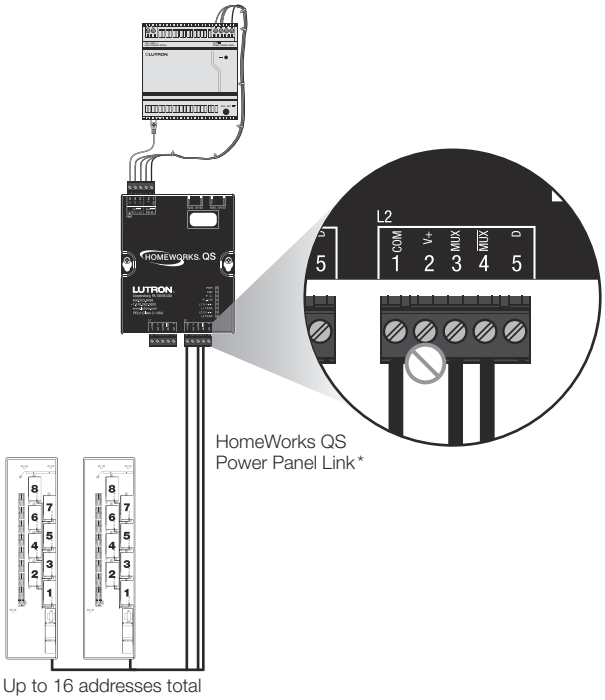
Ad-hoc Networking: Direct Ethernet connection from PC to processors



Up to 5 processors can be daisy-chained

HomeWorks QS Processor

Wiring Diagrams — Power Panel Link

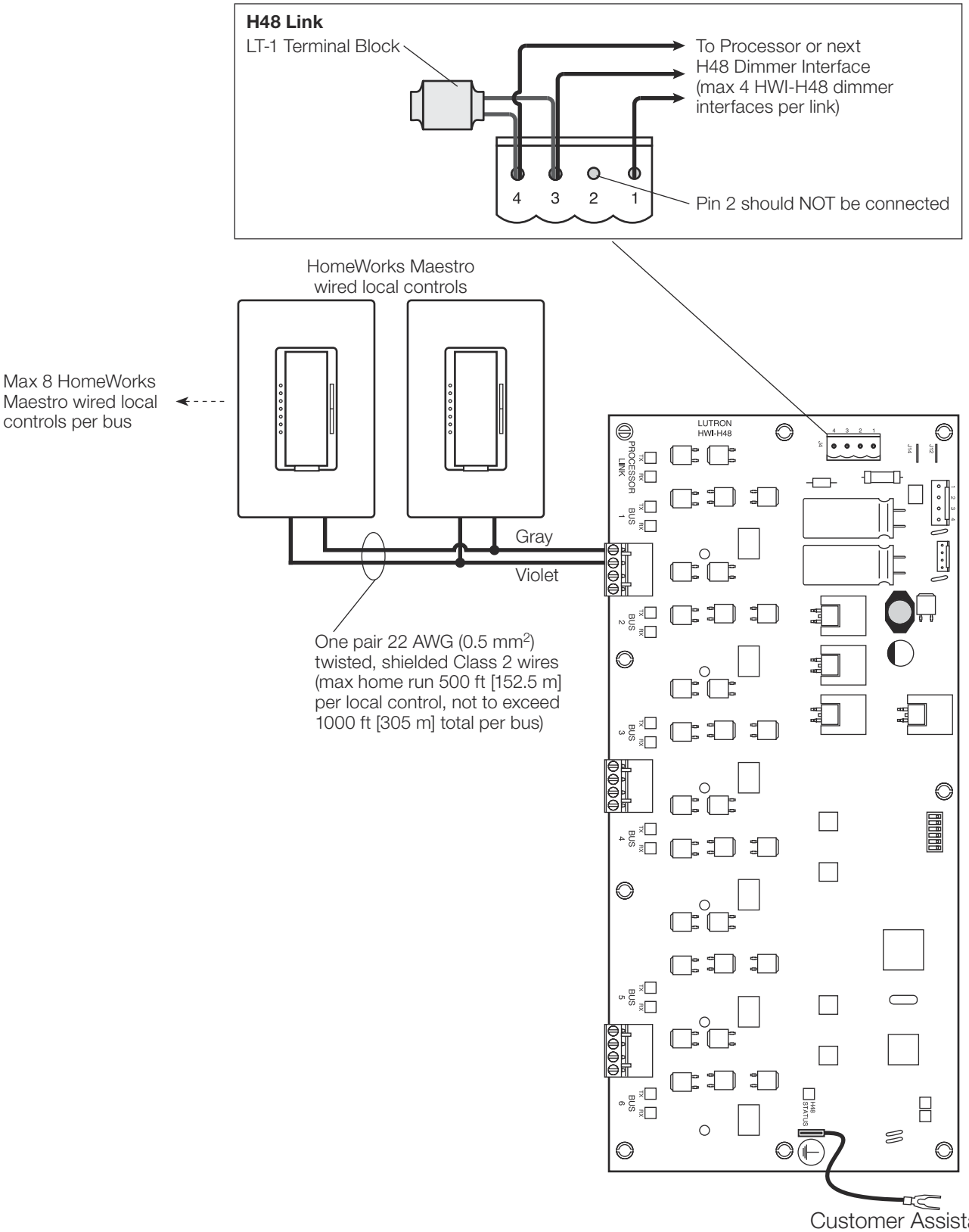


* Pin 2 does not get connected when using a power panel link.

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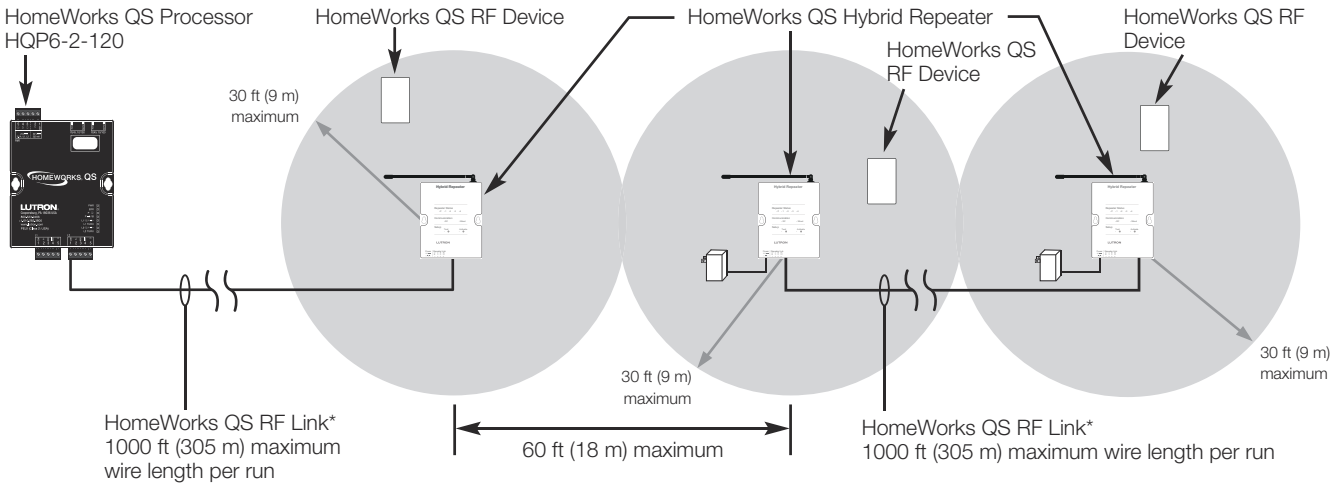
Wiring Diagrams — H48 Dimmer Interface



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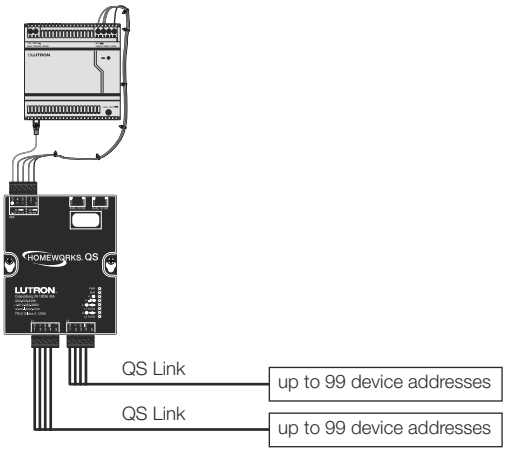
Wiring Diagrams—HomeWorks Clear Connect



* HomeWorks 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.

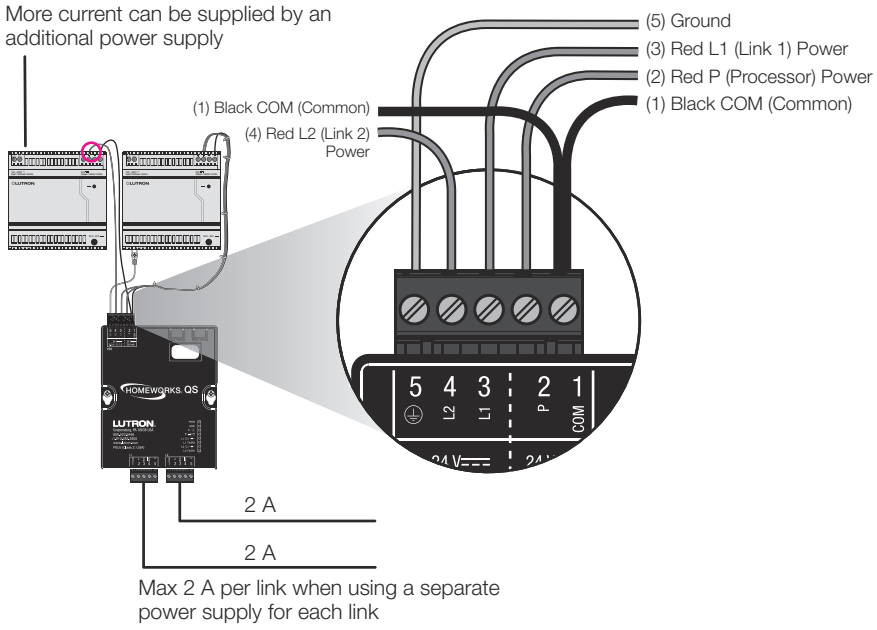
HomeWorks QS Processor

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

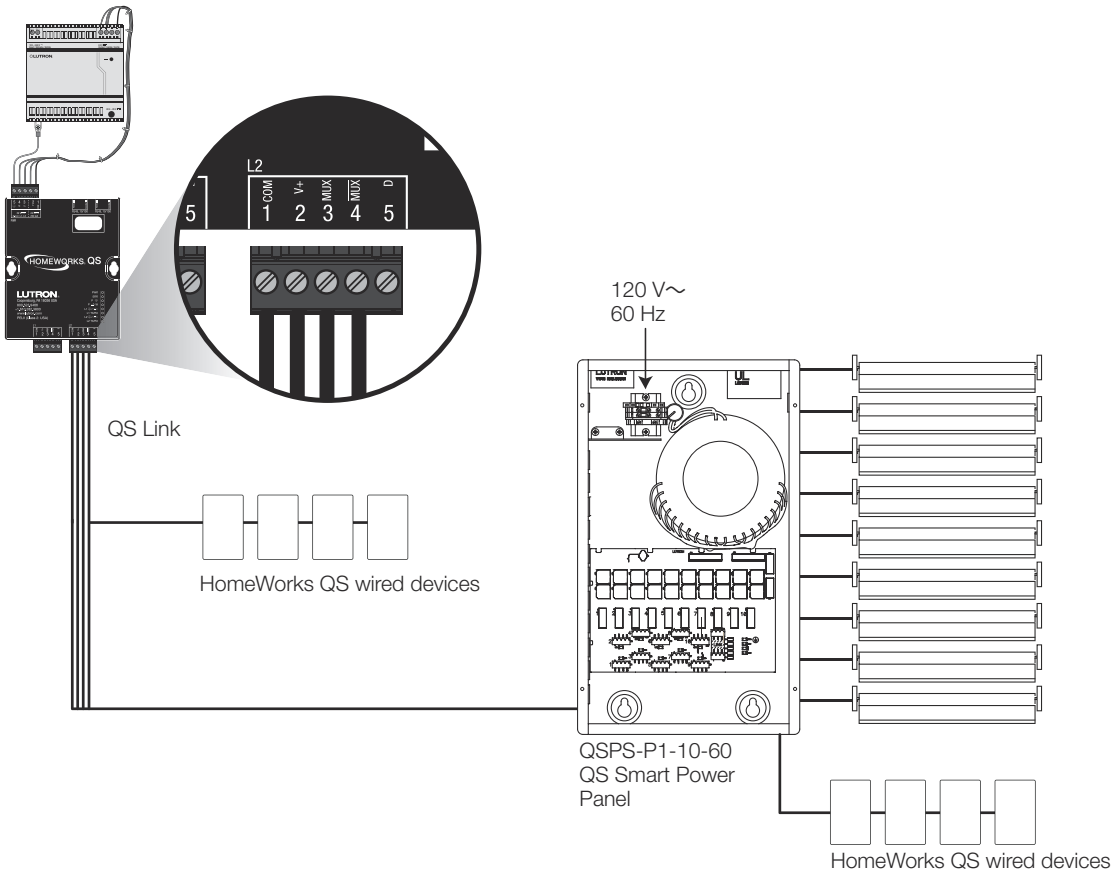


Max 2 A per link when using a separate power supply for each link

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HomeWorks QS Processor

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



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