

Interface for Sivoia QED™

INTERFACE FOR HOMEWORKS AND SIVOIA QED (MODEL# HWI-Q96)

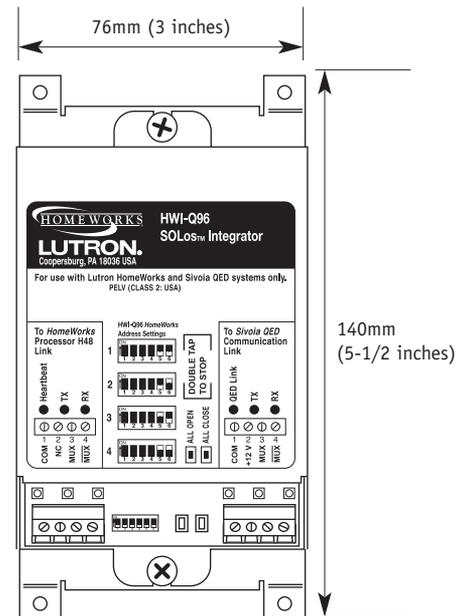
The interface allows the HomeWorks system to precisely control up to 96 individual *Sivoia QED* shades, blinds, draperies and curtains. Position can be set to open, closed, or anywhere in between.

INSTALLATION INFORMATION

The HWI-Q96 interface can be mounted in a HomeWorks low-voltage enclosure in place of any contact closure interface board (HWI-CCI or HWI-CCO). If space does not permit an enclosure, the HWI-Q96 can be mounted as a stand-alone device.

CONNECTION TO WIRED PROCESSOR

The interface connects to a configurable link configured for H48/Q96. Up to four interfaces can be connected one link. HWI-Q96 interfaces and H48 Dimmer Interface Boards can be used on the same link as long as their number does not exceed 4. The total number of lighting/shading zones cannot exceed 256 per processor.



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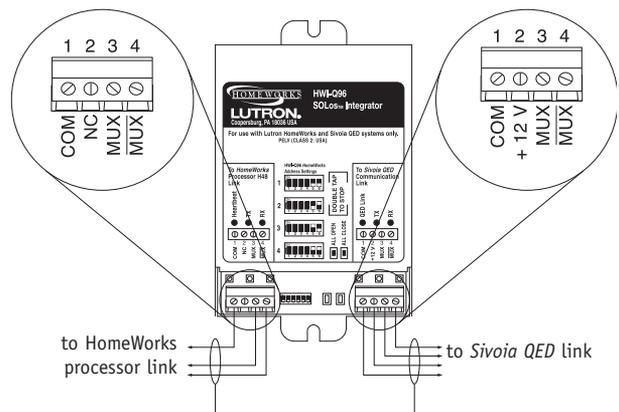


Figure 16 – HWI-Q96 Connections

Interface for Sivoia QED™

Model Number	HWI-Q96
Input Voltage	12VDC (from pin 2 of <i>Sivoia QED</i> link)
Regulatory Approvals	Class 2/PELV device
Environment	Ambient operating temperature: 0-40°C, 32-104°F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Low-Voltage Wire Type	Two pair [one pair 1.0mm ² (#18 AWG), one pair 1.0-0.5mm ² (#18-22 AWG) twisted shielded] Class 2/PELV wire. For connection to <i>Sivoia QED</i> link, the 1.0mm ² (#18 AWG) wire must be used for +12V and Common. HWI-Q96 get its power from the <i>Sivoia QED</i> Link.
Low-Voltage Wiring Configuration	Between processor and interface: Daisy-chain only. Termination required if total cable length exceeds 15m (50 feet). Total length of wire on any link can not exceed 305m (1,000 feet). Maximum of four HWI-Q96 and H48 Dimmer Interfaces per processor link configured for H48/Q96. Between HWI-Q96 and <i>Sivoia QED</i> Communication Link: Daisy-chain or home run. Maximum of 96 <i>Sivoia QED</i> s per link. Total wire distance for the entire <i>Sivoia QED</i> system can not exceed 1220m (4,000 feet).
Line-Voltage Connections	Between processor and HWI-Q96: One 4-pin removable terminal block. Terminal block will accept up to two 1.0mm ² (#18 AWG) wires. Between HWI-Q96 and <i>Sivoia QED</i> s: One 4-pin removable terminal block. Terminal block will accept up to two 1.0mm ² (#18 AWG) wires.
Addressing	Via DIP Switch. Set DIP switches 5-6 to give HWI-Q96 a unique address from 1 to 4. DIP Switches 1-4 should always be in the down position. Counts as one address on the H48/Q96 link.
Diagnostics	Between processor and HWI-Q96: The HomeWorks 'heartbeat' LED will be flashing to denote communication with the processor. If the LED is off, check the connections Between HWI-Q96 and <i>Sivoia QED</i> s: The <i>Sivoia QED</i> TX and RX Communication LEDs are normally off. After limits have been set for each QED, Use the 'All Open' or 'All Closed' button and check the <i>Sivoia QED</i> Communications LEDs (TX and RX) for flashing after the button is pressed.
ESD Protection	Meets or exceeds IEC 61000-4-2 standard.
Surge Protection	Meets or exceeds ANSI/IEEE standard c62.41
Mounting	Mounts in the following enclosures: HWI-LV32-CE, HWI-LV17-CE, and HWI-ENC-CC
Shipping Weight	.45 kg (1.0 pounds)

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Address Number and Switch Setting

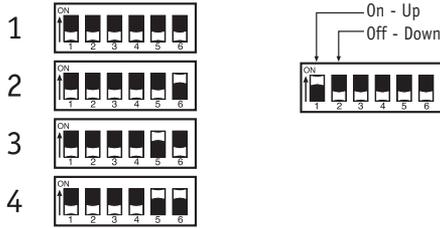


Figure 17 – DIP Switch Settings

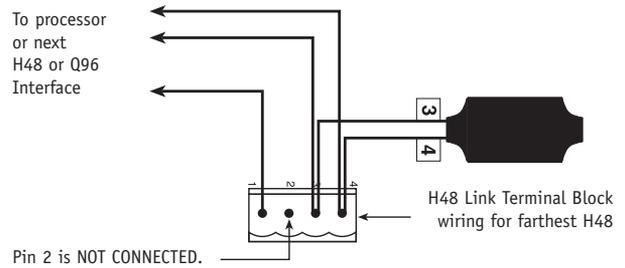


Figure 18 – LT1 Installation



Sivoia QED Features and Benefits:

- Ultra-quiet operation: will not exceed 44dBA measured 3 feet from the EDU.
- Smooth, silent starts and stops.
- Integrates with Lutron Lighting control systems and other a/v equipment.
- Integrates with most outside systems such as home security or time clocks, without the use of external group controls or relay systems.
- Ten year power failure memory.
- Monitors shade position at all times.
- 24 VAC low-voltage power allows *Sivoia QED* to be installed by low-voltage contractors.
- Shades smoothly move in unison and stop in exact alignment within $\pm 1.6\text{mm}$ (0.063 inches) accuracy.
- Optional infrared system provides easy, convenient control from anywhere in the room.