

# Link Extender

4/8 Series
Panel Accessory
MI, Inter-Processor, Hybrid Repeater
N/A

Model Number	LUT-LINK-EXT: Extends the total cable length allowed for use on the inter-processor, module interface, and hybrid repeater links from 1000 feet (305 m) to 2000 feet (610 m).
Input Voltage	100–120 V $\sim$ , 220–240 V $\sim$ 50/60 Hz (line-voltage input not to be used in CE countries).
Regulatory Approvals	UL, CSA
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Line-Voltage	Use copper wire only, supply conductors 60/75 °C.
Low-Voltage Wire Type	Two pair – one pair #18 AWG (1.0 mm <sup>2</sup> ), one pair #18-22 AWG (1.0-0.5 mm <sup>2</sup> ) twisted shielded – Class 2 wire. See Figs. 3, 4, 5 pgs 187-188.
Low-Voltage Wiring Configuration	Inter-processor link: See Fig. 3, pg 187. Hybrid repeater link See fig. 5 pg. 188 Module interface link: See Fig. 4, pg 187.
Low-Voltage Connections	Two 4-pin removable terminal blocks. Each terminal will accept up to four #18 AWG (1.0 mm <sup>2</sup> ) wires.
Addressing	This unit does not require an address.
Diagnostics	LEDs provide diagnostics for troubleshooting communication on the links.
ESD Protection	Meets or exceeds the IEC 61000-4-2 standard.
Surge Protection	Meets or exceeds ANSI/IEEE standard c62.41.
Dimensions	7 $\frac{3}{4}$ in (197 mm) x 5 in (127 mm) x 2 $\frac{1}{2}$ in (64 mm)
Mounting	Mounts on a standard 4 in X 4 in junction box. See Fig. 1.
Shipping Weight	2.4 lbs. (1.1 kg)
Using Special Cable	Special NEC® Class 2 (IEC PELV) communication cable can be used to extend the total cable length allowed for use on the inter-processor, module interface, and hybrid repeater links from 1000 feet (305 m) to 4000 feet (1 220 m) without the use of a link extender, and from 2000 feet (610 m) to 8000 feet (2 240 m) with the use of a link extender. Refer to HomeWorks® Application Note #62 for details and special cable specifications.

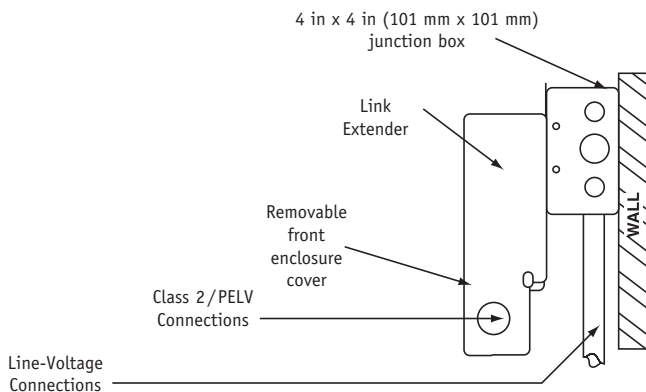


Figure 1 – Mounting Diagram

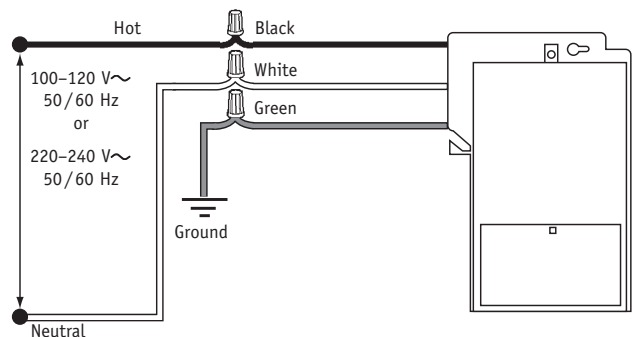
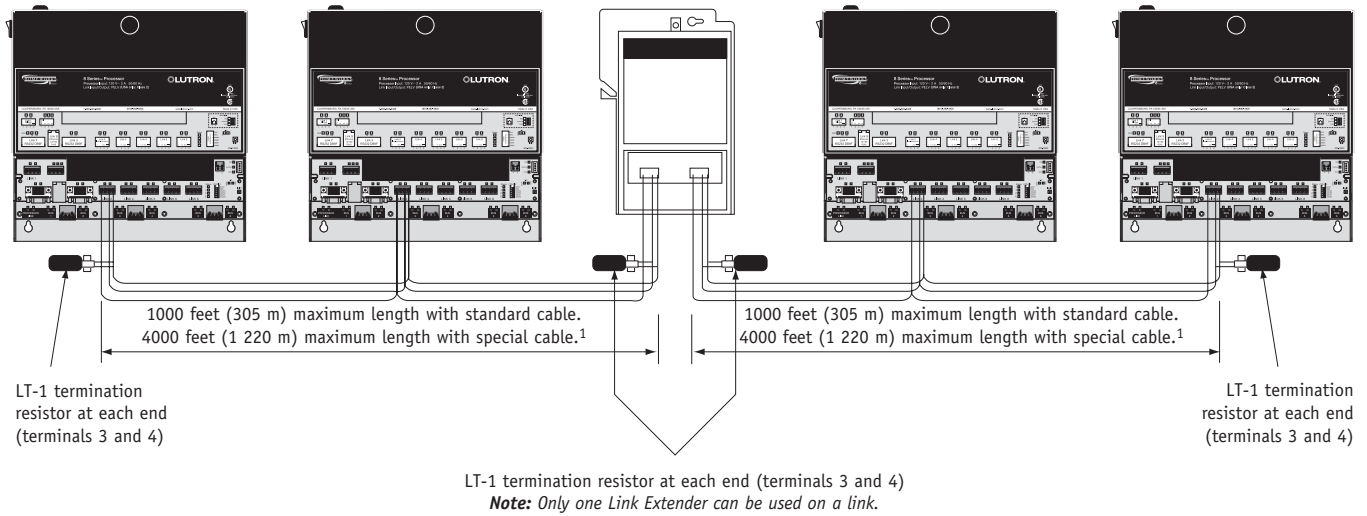
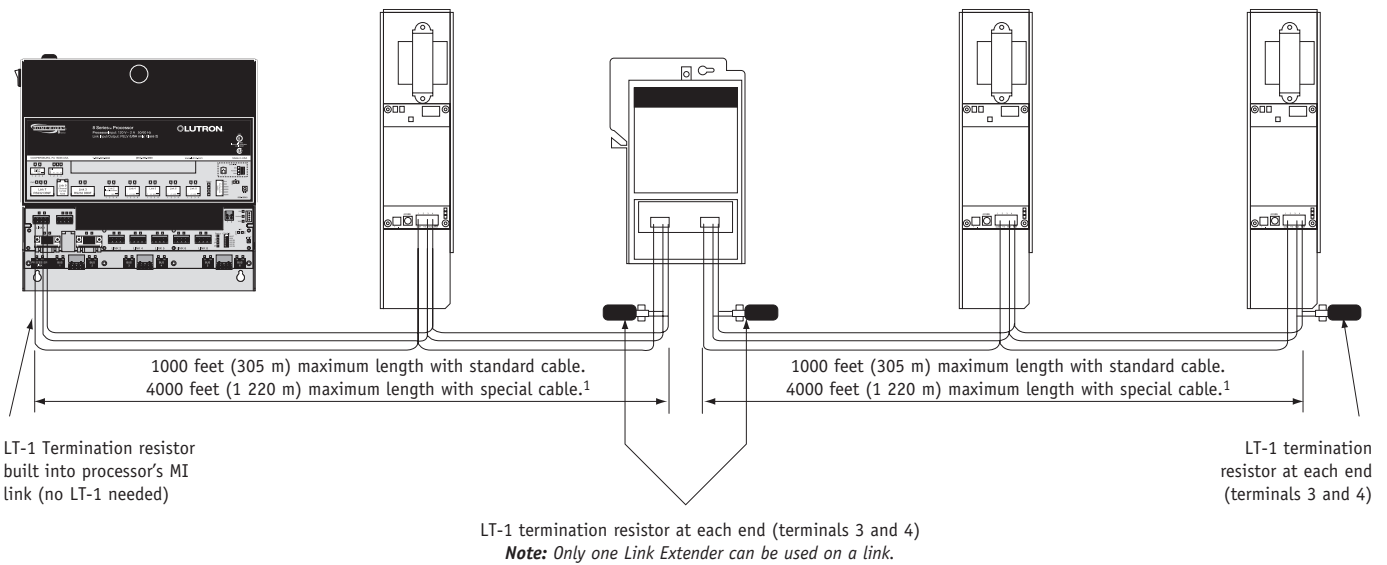


Figure 2 – Line-Voltage Wiring Diagram

# Link Extender (cont.)



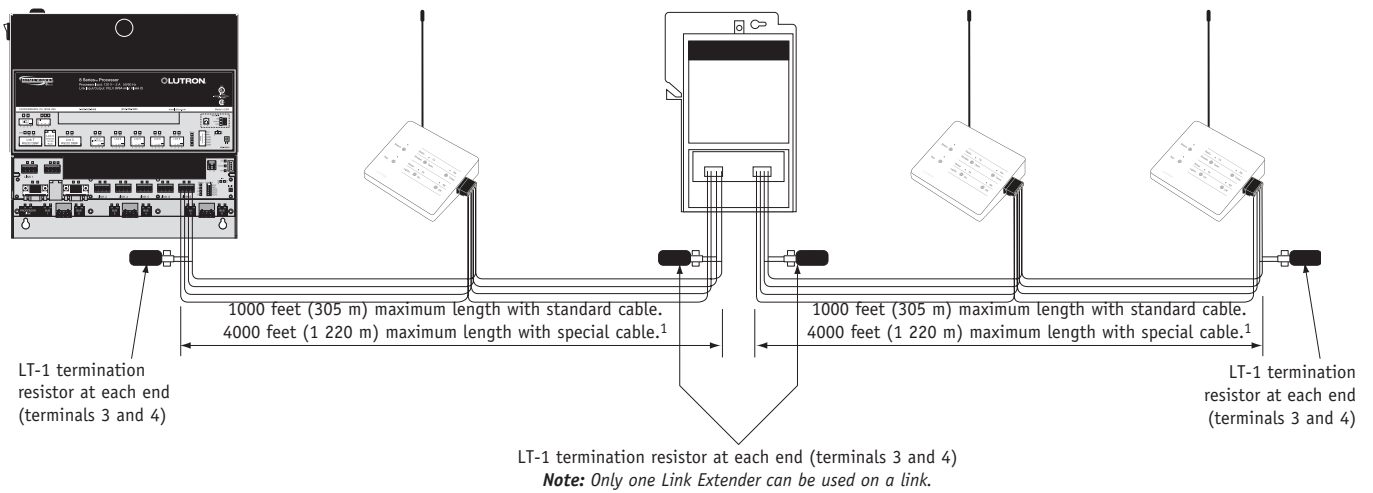
**Figure 3 – Inter-Processor Link Wiring Diagram with LUT-LINK-EXT**



**Figure 4 – Module Interface Link Wiring Diagram with LUT-LINK-EXT**

<sup>1</sup> For information on special cable applications, see HomeWorks® Application Note # 62.

# Link Extender (cont.)



**Figure 5 – Hybrid Repeater Link Wiring Diagram with LUT-LINK-EXT**