

LightLEEDer Retrofit

For Outdated or Obsolete Lighting Controllers

ILC provides retrofit kits to upgrade lighting panels to LightLEEDer.

This includes the older ILC products:

Quanta RSX

Quanta Elite

LightMaster

Retrofit kits are also available for:

Microlite

Hubbell LX

Douglas

GE

Wattstopper

PCI



ILC LightLEEDer Retrofit Controller

Retrofit Kits can be used as a stand-alone panel(s) or as networked panels. Both options are supported by ILC LightLEEDer Pro software for windows which can be downloaded from the ILC website <https://www.ilc-usa.com/>

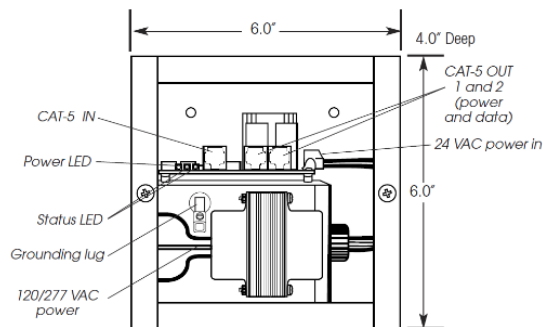
When Networking panels, a LightLEEDer Network Controller is required, Data cable runs between panels requires a CAT-5 cable and LSPSR, LSPSR-6 can be added to extend data run distance and for multiple runs.

Networking	Catalog Number	Part #
ILC Network Controller – Hinged Locking Door Enclosure	LLNC-HLD	93005001

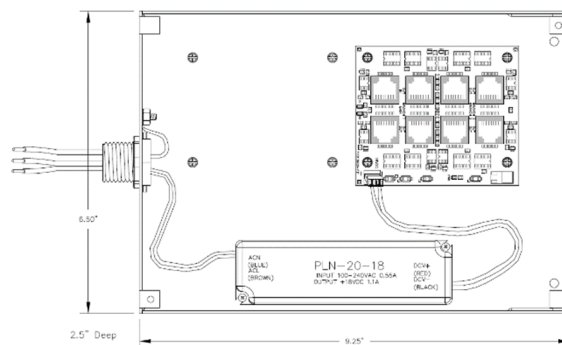


*Remote Network Controller
W/ Hinged Locking Door*

CAT-5 Dateline LSPSR and LSPSR6	Catalog Number	Part #
LightSync Digital Power Supply Repeater - Remote Mount	LSPSR-R	93001861
LightSync Digital Power Supply Repeater 6 - Remote Mount	LSPSR6-R	93000388



LSPSR Remote



LSPSR6-Remote

ILC Quanta RSX to LightLEEDer Retrofit

Existing ILC Quanta RSX panels such as the RSX 1000 stand-alone, RSX 1500 networked, and ILC 1000 stand-alone models can be easily retrofitted. The retrofit kit includes a steel backplate, LightLEEDer Controller, Input/Output boards, and transformers.

Panel Size	Retrofit Kit	Catalog Number	Part #
8 Relays	RSX 08 to LL Retrofit Kit	RSX08-to-LL	92058208
16 Relays	RSX 16 to LL Retrofit Kit	RSX16-to-LL	92058209
24 Relays	RSX 24 to LL Retrofit Kit	RSX24-to-LL	92058210
32 Relays	RSX 32 to LL Retrofit Kit	RSX32-to-LL	92058211
40 Relays	RSX 40 to LL Retrofit Kit	RSX40-to-LL	92058212
48 Relays	RSX 48 to LL Retrofit Kit	RSX48-to-LL	92058213

Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #



TR120 or TR277 relays must be replaced with 2R9C relays

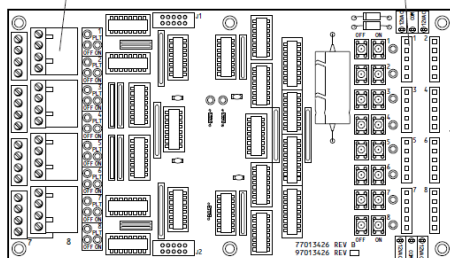


93003025

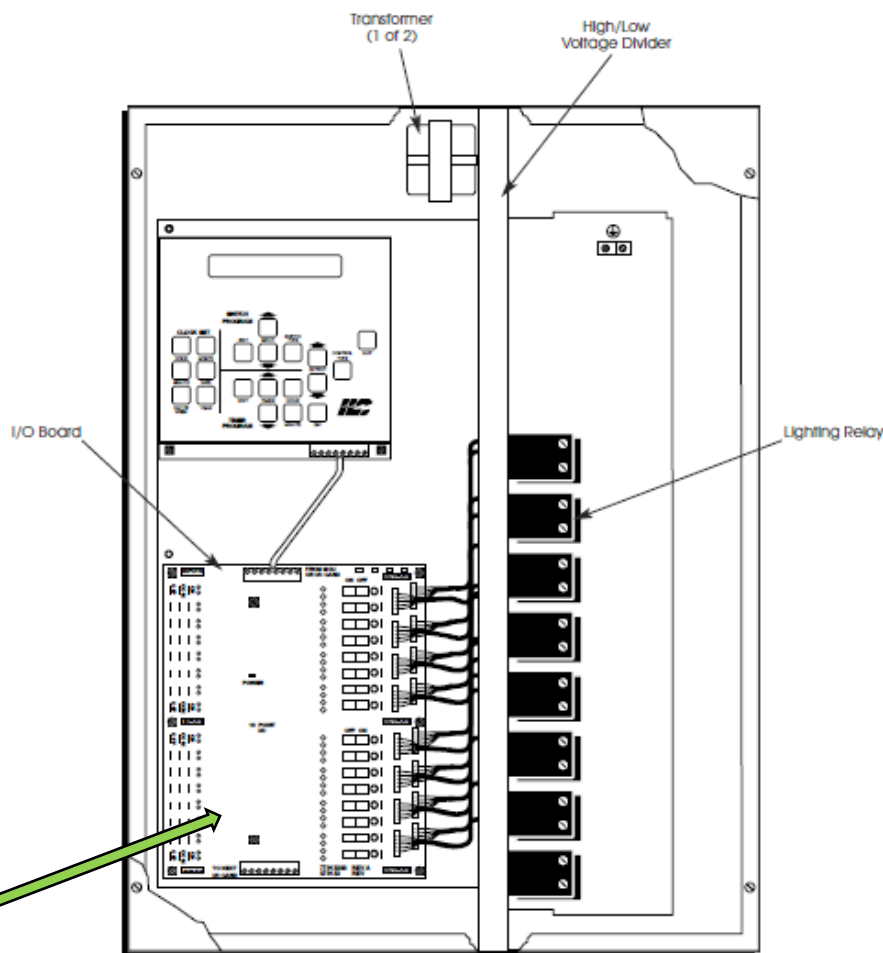
LightMaster I/O boards are included

Switch Inputs and Pilot Outputs
(8 per board)

Relay Outputs
(8 per board)



LightMaster Standard I/O Board



Quanta RSX-16 Panel w/2R9C Relays

See: **ILC Quanta RSX Series Retrofit Installation Guide** for more detailed information

ILC Quanta Elite to LightLEEDer Retrofit

Retrofit existing ILC Quanta Elite panels. The retrofit kit includes a steel backplate, LightLEEDer Controller, Input/Output boards, and transformers. The existing divider and the 2R9C relays will be re-used.

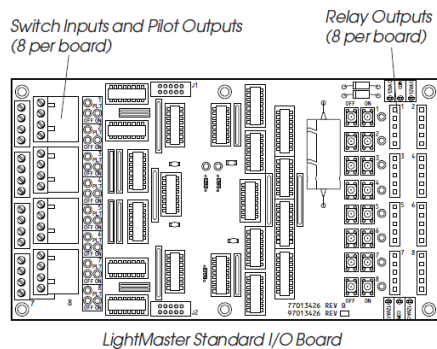
Panel Size	Retrofit Kit	Catalog Number	Part #
8 Relays	Quanta Elite 08 to LL Retrofit Kit	QE08-to-LL	92058202
16 Relays	Quanta Elite 16 to LL Retrofit Kit	QE16-to-LL	92058203
24 Relays	Quanta Elite 24 to LL Retrofit Kit	QE24-to-LL	92058204
32 Relays	Quanta Elite 32 to LL Retrofit Kit	QE32-to-LL	92058205
40 Relays	Quanta Elite 40 to LL Retrofit Kit	QE40-to-LL	92058205
48 Relays	Quanta Elite 48 to LL Retrofit Kit	QE48-to-LL	92058207

Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #

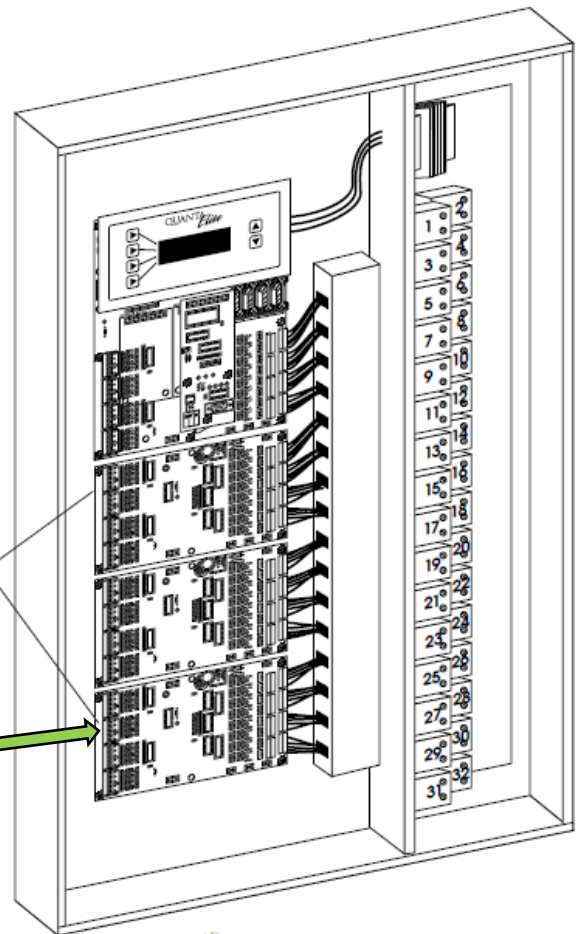


Optional replacement 2R9C relays
93003025

LightMaster I/O boards are included



I/O boards



Quanta Elite 32 Relay Pane

See: **ILC Quanta Elite Retrofit Installation Guide** for more detailed information

ILC LightMaster to LightLEEDer Retrofit

Retrofit existing ILC LightMaster panels. The retrofit kit includes a steel backplate for the LightLEEDer Controller, and transformer. The existing LightMaster Input/Output boards, and transformers and 2R9C relays will be re-use.

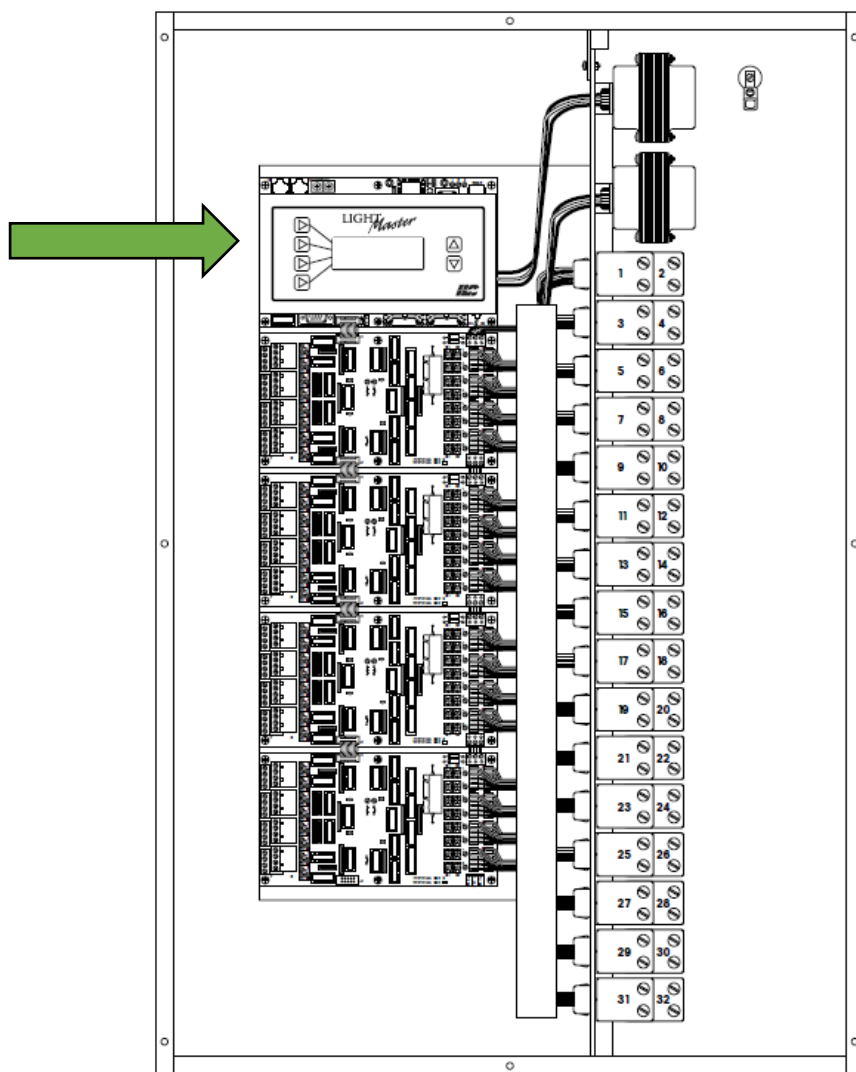
All Panel Sizes	Retrofit Kit	Catalog Number	Part #
8, 16, 24, 32, 40, 48	LightMaster to LightLEEDer Retrofit Kit	LM-to-LL	92058166
Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #			



Retrofit LightLEEDer Controller



Optional replacement 2R9C relay
93003025



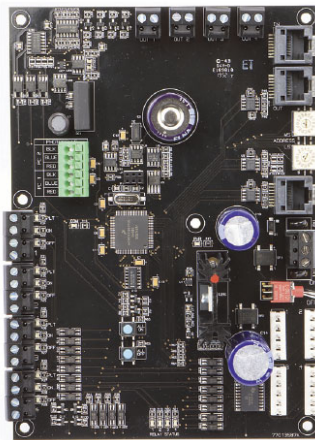
LightMaster 32 relay panel

See: **ILC LightMaster Retrofit Installation Guide**, TB0005 for more detailed information

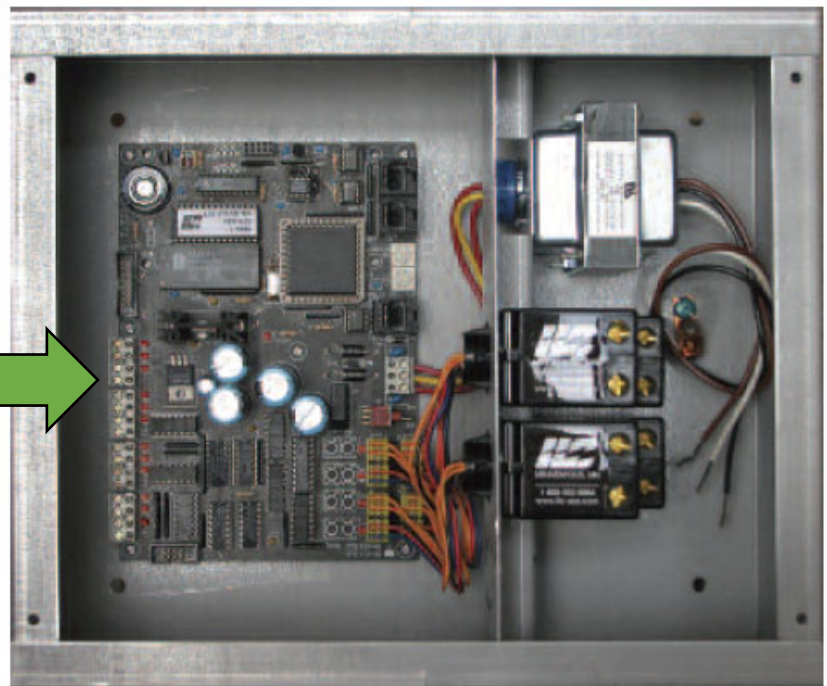
ILC LightMaster 4 to LightLEEDer Retrofit

Retrofit existing ILC LightMaster 4 relay panels. The retrofit kit includes a new controller board that fits in the same space as the original LM-4 panel controller and offers all the same connections as the original. The existing enclosure, transformer and 2R9C relays are all re-used. In addition to all the original LM4 board features and wiring connections the LLLM4R retrofit board includes the Add-On 4-channel 0-10VDC dimmer outputs and two photocell sensor inputs and will configure and address the same as a current LLEVO panel

Panel Size	Retrofit Kit	Catalog Number	Part #
LM 4	LM4 to LL Retrofit Kit	LM4-to-LL	92058200



LM4R Retrofit



LightMaster 4 Panel



Optional replacement 2R9C relay
93003025

See: **LightLEEDer LM4 Retrofit Installation Detail, ID0021, PD0021** for more detailed information

Microlite to LightLEEDer Addressable Retrofit

Retrofit existing Microlite panels. The retrofit insert includes a steel backplate, LightLEEDer Controller, non-addressable LightLEEDer relay driver boards, and transformer. The existing enclosure and line voltage wire can be re-used. This retrofit is provided with Addressable relay driver boards that will sequence the relays in a Left top to bottom then Right top to bottom pattern that matches original Microlite panel operation.

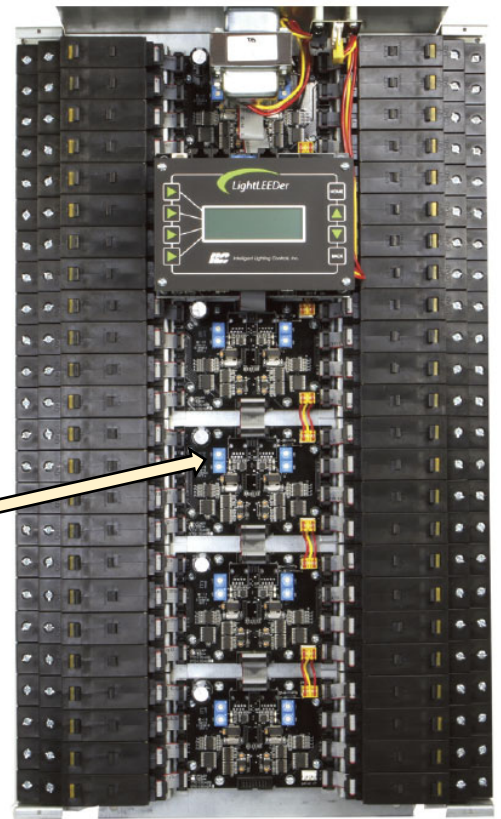
Panel Size	Retrofit Insert	Catalog Number	Part #
24 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-24	92058124
32 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-32	92058132
40 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-40	92058140
48 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-48	92058148

Transformers are 120/277VAC as standard



R40-1 Relays are ordered separately
92040194

The standard Microlite retrofit panel is equipped with addressable relay driver boards that allows you to set the relay outputs in sets of 4 for the left side, and right side of the panel allowing Relays 1 to 24 on the left and 25 to 48 on the right to match existing MicroLite relay numbering.

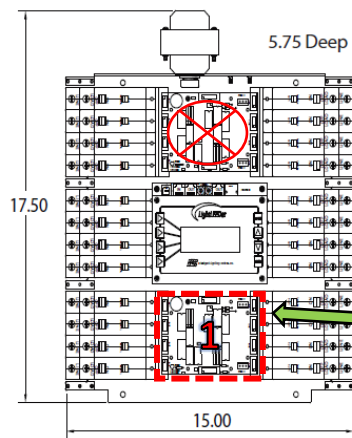


LLMRI-48 Insert

LLMRI panel with 120/347VAC transformer Option

Panel Size	Retrofit Insert	Catalog Number	Part #
24 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-24-347	92058125
32 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-32-347	92058133
40 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-40-347	92058141
48 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-48-347	92058149

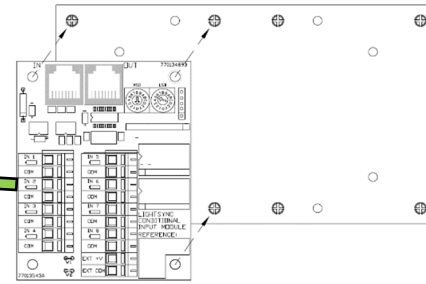
See: **LightLEEDer Drop-In Retrofit Option for MicroLite Control Panels**
for more detailed information



LightLEEDer-24 Retrofit Insert

Optional input modules and double device mounting plates can be To Microlite Retrofit panels and are ordered separately.

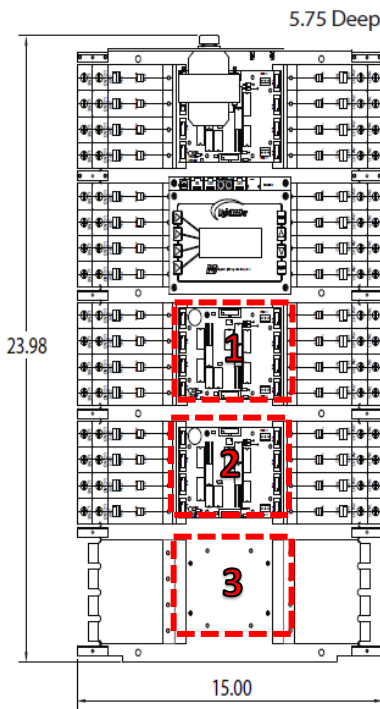
LLMRI-24 insert can support 1 double plate for up to 2 LS modules



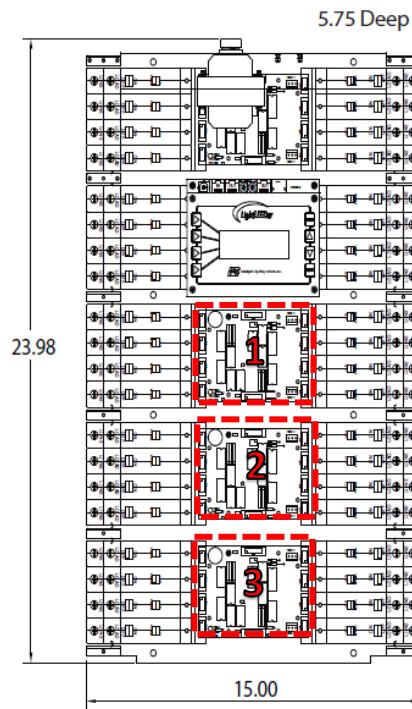
LSCIM & LL Double Input Plate

LLMRI-32 & 40 can support 3 double places for 6 LS modules

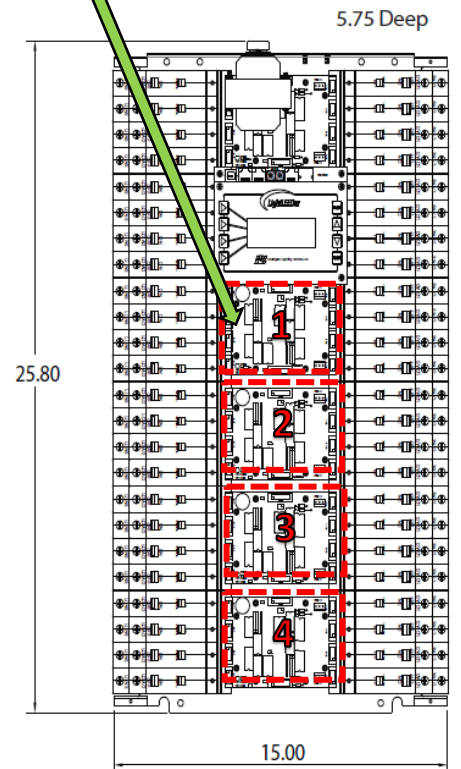
LLMRI-48 can support 4 double places for 8 LS modules



LightLEEDer-32 Retrofit Insert



LightLEEDer-40 Retrofit Insert



LightLEEDer-48 Retrofit Insert

LL Double Plate Assembly and LightSync Devices

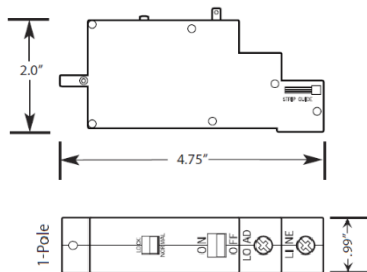
		Catalog Number	Part #
LL Double Input Plate Assembly	(Holds up to 2 LS Devices)	LLDP	92058100
LS Input Module	(4 Input, 3-Wire)	LSIM-P	97013485
LS Conditional Input Module	(8 Input, 2-Wire)	LSCIM -P	97013543
LS Occupancy Input Module	(8 Input, 3-Wire, w/Power)	LSOSM-P	LSCOS8I-P
<i>*Requires a 2nd LLDP to mount the included 24VDC, 800mA power supply using 2 LLDP locations</i>			
LS Dimmer Module	(4 0-10VDC Dimmer Output)	LSDM-P	97013555

Microlite to LightLEEDer Non-Addressable Retrofit

Retrofit existing Microlite panels. The Non-Addressable Microlite retrofit insert includes a steel backplate, LightLEEDer Controller, standard LightLEEDer relay driver boards, and transformers. The existing enclosure and line voltage wire can be re-used. This non-addressable version will sequence the relays in a Left-1/Right-2 or Odd/Even pattern that matches standard LightLEEDer panels and standard breaker panel operation.

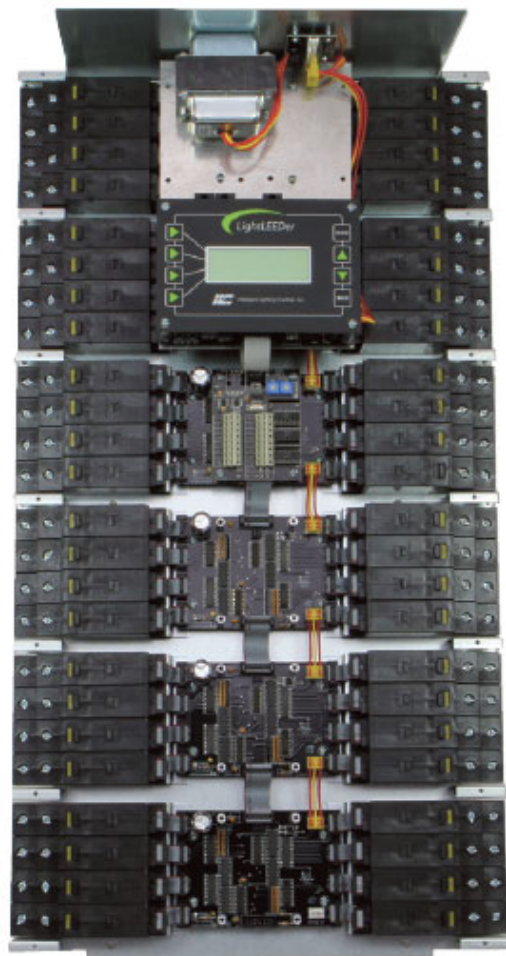
Panel Size	Retrofit Insert	Catalog Number	Part #
24 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-24-NA	92058126
32 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-32-NA	92058134
40 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-40-NA	92058142
48 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-48-NA	92058144

Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #



R40-1 Relays are ordered separately
92040194

Input Options: See page 8 above
for double input plate quantity and
LightSync device options.



LLMRI-48-NA

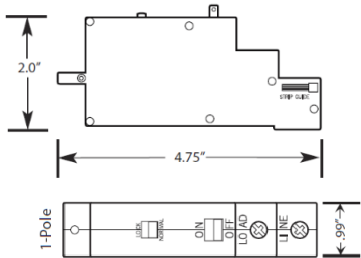
See: **LightLEEDer Drop-In Retrofit Option for MicroLite Control Panels**
for more detailed information

Microlite to LightLEEDer Emergency Retrofit

Retrofit existing Microlite panels. The retrofit insert includes a steel backplate, LightLEEDer controller, LightLEEDer Emergency relay driver boards with addressable configuration, Phase Monitoring Module, and transformers. The existing enclosure and line voltage wire can be re-used. This UL-924 relay driver has a selectable Force-On/Off/Hold state operation for the relay outputs that activates when normal power is lost to the panel.

Panel Size	Retrofit Insert	Catalog Number	Part #
22 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-22-EM	92058101
30 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-30-EM	92058102
38 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-38-EM	92058103
46 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-46-EM	92058104

EM panel only available with 120/277VAC transformers
A New vented door is included with each EM Retrofit

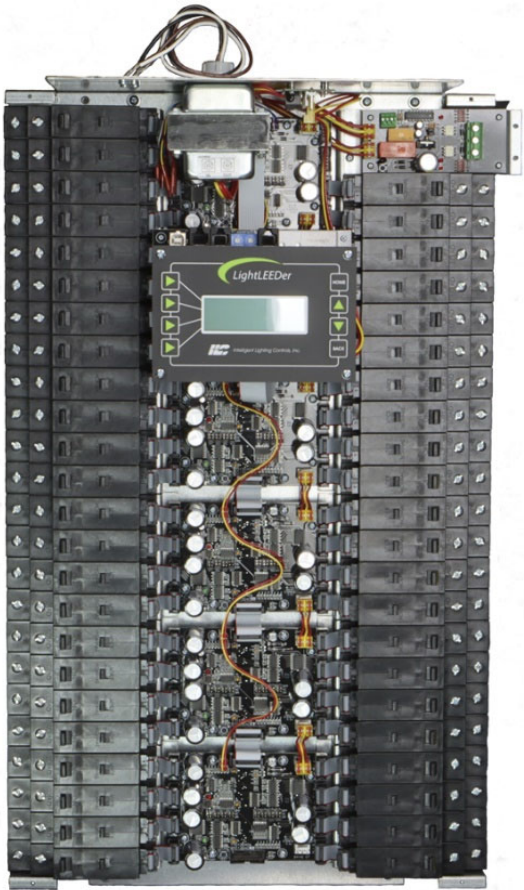


R40-1 relays are ordered separately
92040194

Note: Panel capacity reduced by 2 relays
for phase monitoring module mounting
located at top right.

Like the standard Microlite retrofit panel this EM Version includes an addressable module for each EM Driver board that allows you to set the relay outputs in sets of 4 for the left side, and right side of the panel allowing Relays 1 to 24 on the left and 25 to 48 on the right to match existing MicroLite relay numbering.

Input Options: See page 8 above
for double input plate quantity and
LightSync device options.



LLMRI-46-EM

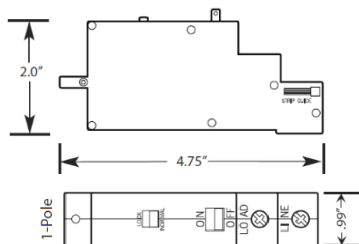
See: **LightLEEDer Drop-In Retrofit Option for MicroLite Control Panels and ILC Emergency Retrofit Insert Installation Guide**
for more detailed information

Microlite to LightLEEDer Emergency Retrofit Non-Addressable

Retrofit existing Microlite panels. The retrofit insert includes a steel backplate, LightLEEDer controller, LightLEEDer Emergency relay driver boards with Non-Addressable configuration, Phase Monitoring Module, and transformers. The existing enclosure and line voltage wire can be re-used. This UL-924 relay driver has a selectable Force-On/Off/Hold state operation for the relay outputs that activates when normal power is lost to the panel.

Panel Size	Retrofit Insert	Catalog Number	Part #
22 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-22-EM-NA	92058127
30 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-30-EM-NA	92058135
38 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-38-EM-NA	92058143
46 Relays	LightLEEDer MicroLite Retrofit Insert	LLMRI-46-EM-NA	92058145

EM panel only available with 120/277VAC transformers



R40-1 relays are ordered separately
92040194

Note: Panel capacity reduced by 2 relays
for phase monitoring module mounting
located at top right.

Non-Addressable boards operate on a Left-1/Right-2
or Odd/Even sequence per board to match breaker
panel numbering.

Input Options: See page 8 above
for double input plate quantity and
LightSync device options.



LLMRI-46-EM-NA

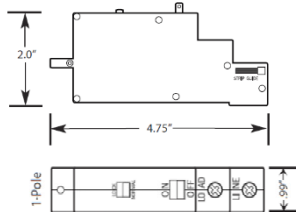
See: **LightLEEDer Drop-In Retrofit Option for MicroLite Control Panels
and ILC Emergency Retrofit Insert Installation Guide**
for more detailed information

Hubbell LX to LightLEEDer Retrofit

Retrofit existing Hubbell LX panels. The retrofit insert includes a steel backplate, LightLEEDer Controller, LightLEEDer relay driver boards, and transformers. The existing enclosure and line voltage wire can be re-used.

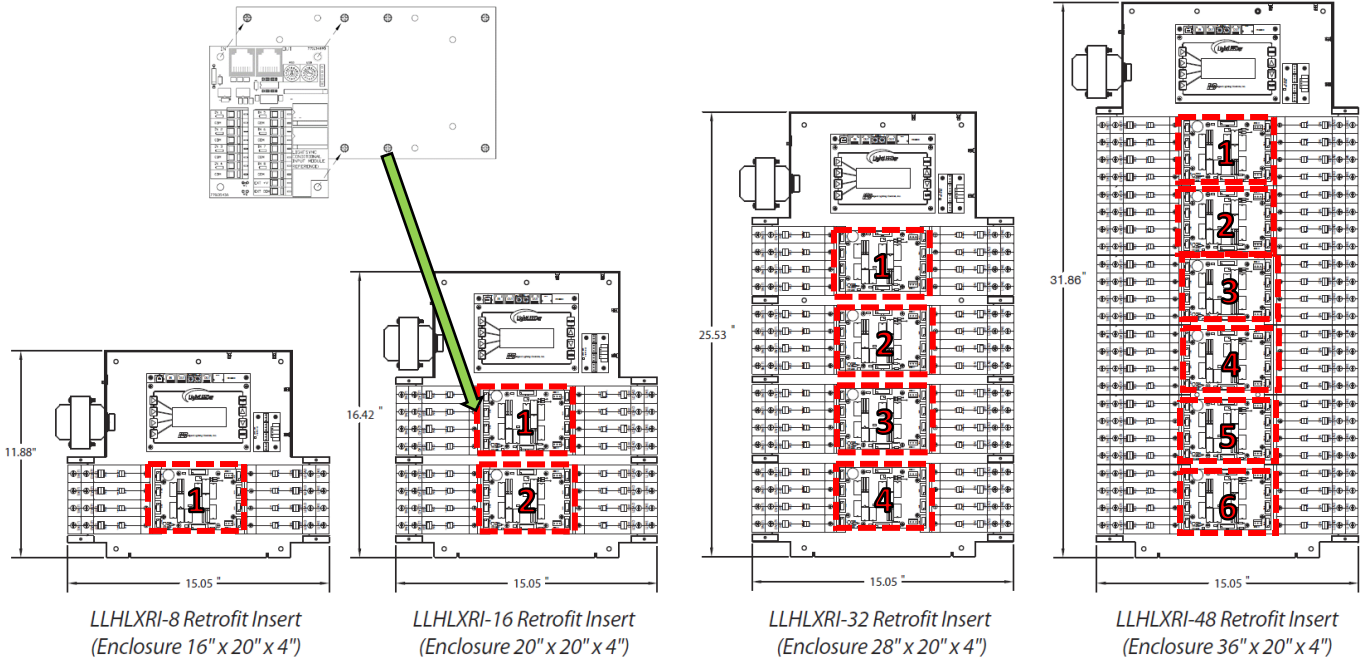
Panel Size	Retrofit Insert	Catalog Number	Part #
24 Relays	LightLEEDer Hubbell LX Retrofit Insert	LLHLXRI-08	92058091
32 Relays	LightLEEDer Hubbell LX Retrofit Insert	LLHLXRI-16	92058092
40 Relays	LightLEEDer Hubbell LX Retrofit Insert	LLHLXRI-32	92058093
48 Relays	LightLEEDer Hubbell LX Retrofit Insert	LLHLXRI-48	92058094

Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #



R40-1 relays are ordered separately
92040194

Input Options: See page 8 above
LL Double Input Plate Assembly: 92058100

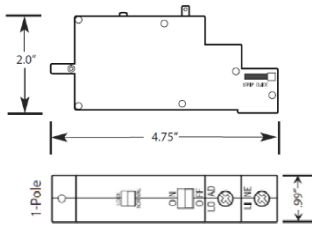


Douglas to LightLEEDer Retrofit

Retrofit existing Douglas panels. The retrofit insert includes a steel backplate, LightLEEDer Controller, LightLEEDer relay driver boards, and transformers. The existing enclosure and line voltage wire can be re-used.

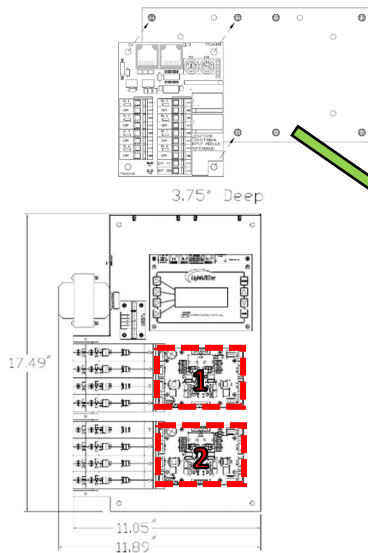
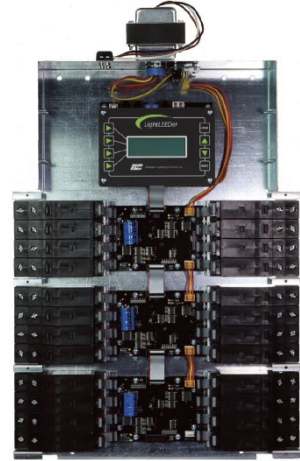
Panel Size	Retrofit Insert	Catalog Number	Part #
8 Relays	LightLEEDer Douglas Retrofit Insert	LLDRI-08	92058131
24 Relays	LightLEEDer Douglas Retrofit Insert	LLDRI-24	92058128
48 Relays	LightLEEDer Douglas Retrofit Insert	LLDRI-48	92058130

Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #

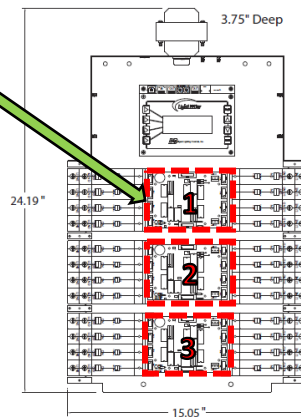


R40-1 relays are ordered separately
92040194

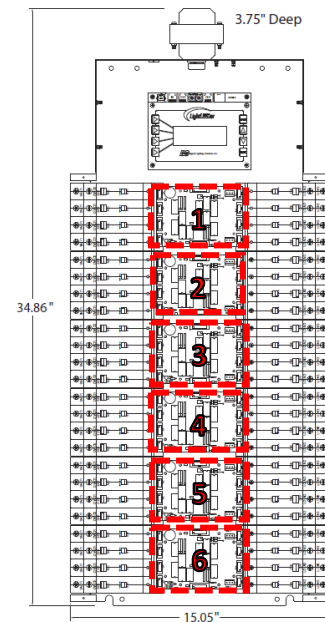
Input Options: See page 8 above
LL Double Input Plate Assembly: 92058100



LLDRI-8 Retrofit Insert
(Enclosure: 20"H x 14"W x 4.25"D)



LLDRI-24 Retrofit Insert
(Enclosure: 27"H x 20"W x 4.25"D)



LLDRI-48 Retrofit Insert
(Enclosure: 39"H x 20"W x 4.25"D)

Optional Douglas 22 relay panel with Emergency-On Function (Non-UL924 listed, 120/277 Only)

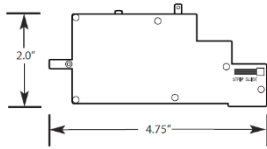
Panel Size	Retrofit Insert	Catalog Number	Part #
22 Relays	LightLEEDer Douglas Retrofit Insert	LLDRI-22-EMF	92058129

GE to LightLEEDer Retrofit

Retrofit existing GE panels. The retrofit insert includes a steel backplate, LightLEEDer Controller, LightLEEDer addressable relay driver boards, and transformers. The existing enclosure and line voltage wire can be re-used.

Panel Size	Retrofit Insert	Catalog Number	Part #
12 Relays	LightLEEDer GE Retrofit Insert	LLGERI-12	LLGERI-12
24 Relays	LightLEEDer GE Retrofit Insert	LLGERI-24	LLGERI-24
32 Relays	LightLEEDer GE Retrofit Insert	LLGERI-32	LLGERI-32
48 Relays	LightLEEDer GE Retrofit Insert	LLGERI-48	LLGERI-48

Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #

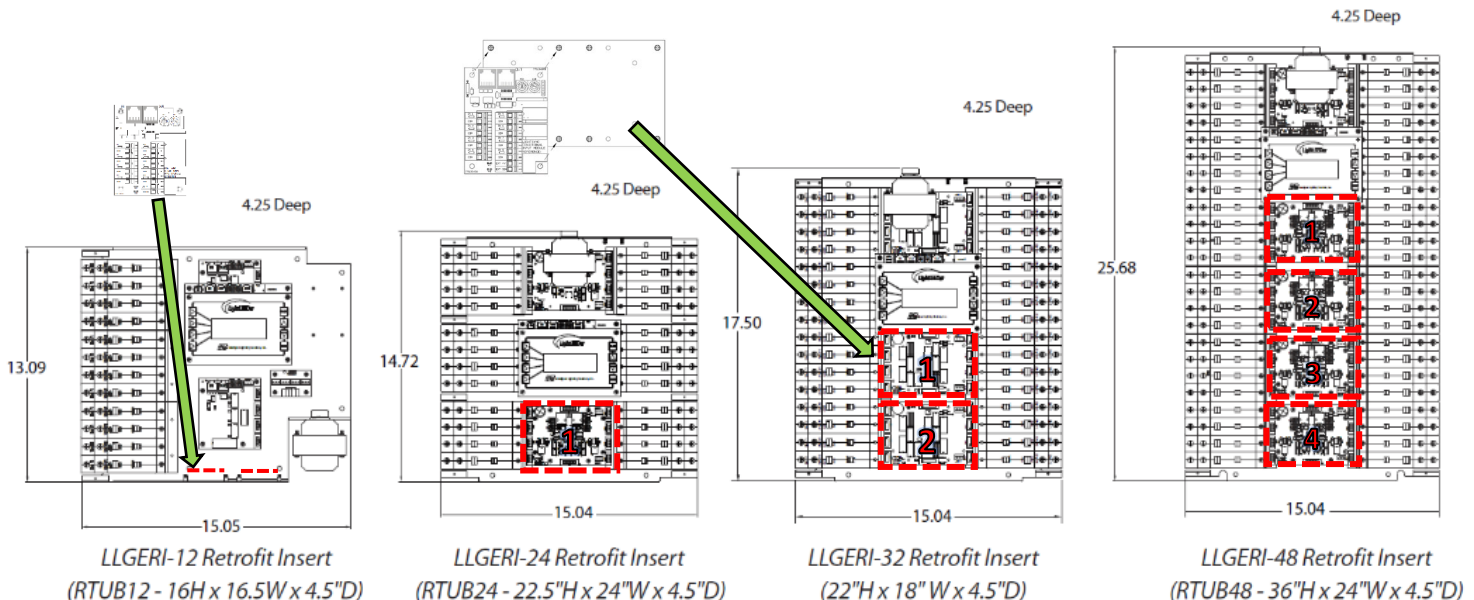
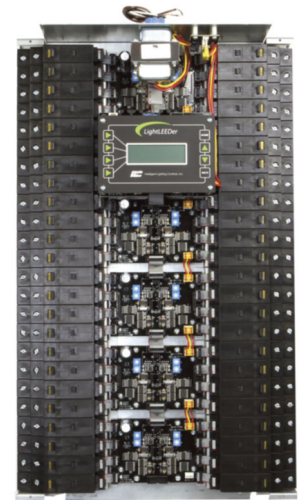


R40-1 Relays are ordered separately
92040194

GE Retro interiors use addressable relay driver boards that allows you to set the relay outputs in sets of 4 for the left side, and right side of the panel. Relays 1 to 24 on the left and 25 to 48 on the right to match existing

Input Options: See page 8 above

LL Double Input Plate Assembly: 92058100



Optional GE 22 and 46 relay panel with Emergency-On Function (Non-UL924 listed, 120/277 Only)

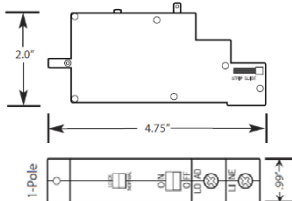
Panel size	Retrofit Insert	Catalog Number	Part #
22 Relays	LightLEEDer GE Retrofit Insert-EMF	LLGERI-22-EMF	92058224
46 Relays	LightLEEDer GE Retrofit Insert-EMF	LLGERI-46-EMF	92058225

Wattstopper to LightLEEDer Retrofit

Retrofit existing Wattstopper panel. The retrofit insert includes a steel backplate, LightLEEDer Controller, LightLEEDer addressable relay driver boards, and transformers. The existing enclosure and line voltage wire can be re-used.

Panel Size	Retrofit Insert	Catalog Number	Part #
24 Relays	LightLEEDer Wattstopper Retrofit Insert	LLWSRI-24	LLWSRI-24

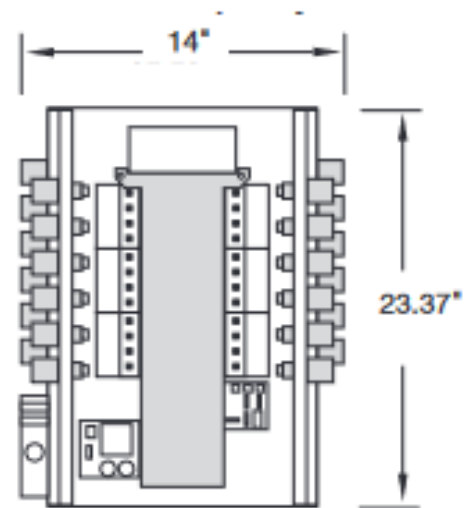
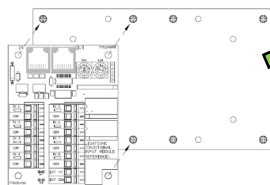
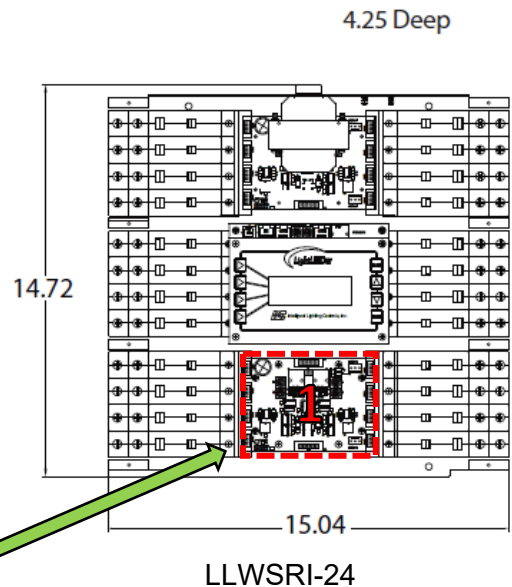
Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #



R40-1 Relays are ordered separately
92040194

Wattstopper Retro interior use addressable relay driver boards that allows you to set the relay outputs in sets of 4 for the left side, and right side of the panel. Relays 1 to 16 on the left and 17 to 24 on the right to match existing.

Input Options: See page 8 above
LL Double Input Plate Assembly: 92058100



Wattstopper 24 Interior

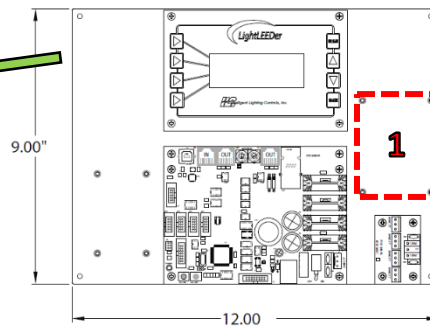
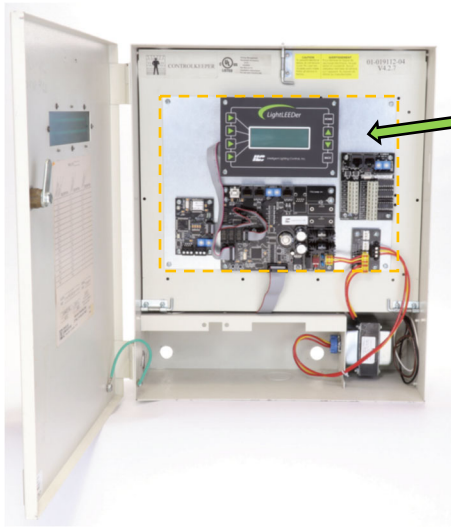
PCI to LightLEEDer Retrofit

Retrofit existing Douglas panels. The retrofit insert includes a steel backplate, the new LightLEEDer Controller, LightLEEDer relay driver boards, and transformers. The existing enclosure and line voltage wire can be re-used.

Panel Size	Retrofit Insert	Catalog Number	Part #
8 Relays	LightLEEDer PCI Retrofit Insert	LLPCIRI-08	LLPCIRI-8
16 Relays	LightLEEDer PCI Retrofit Insert	LLPCIRI-16	LLPCIRI-16
24 Relays	LightLEEDer PCI Retrofit Insert	LLPCIRI-24	LLPCIRI-24
32 Relays	LightLEEDer PCI Retrofit Insert	LLPCIRI-32	LLPCIRI-32
40 Relays	LightLEEDer PCI Retrofit Insert	LLPCIRI-40	LLPCIRI-40
48 Relays	LightLEEDer PCI Retrofit Insert	LLPCIRI-48	LLPCIRI-48

Transformers are 120/277VAC, for 120/347VAC transformer option consult ILC for custom part #

PCI retrofit Inserts relay assembly's each include 8 relays



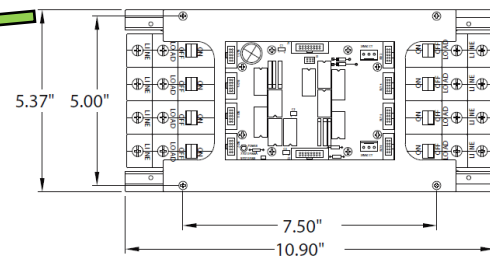
LLPCIRI Controller Assembly

Mounting for one LS module
and one LSSI BAS module

Input Options - See page 8 above



Panel Interior



PCI Retro Relay Assembly

See: **LLPCIRI Field Installation Guide, ID0020** for more detailed information