

## LPA SERIES SELECTABLE BACKLIT PANEL

Client:  
 Project:  
 Type:  
 Quantity:

### CONSTRUCTION

Low profile extruded aluminum frame, all corners are rounded for safe handling. Multiple wiring entrances on driver enclosure for easy access. The backplate includes integral T-bar clips for installation into T-grid ceilings.

### OPTICS

Backlit design provides exceptional lighting distribution. Frosted PMMA lens offers edge to edge illumination without pixilation or bright spots.

### ELECTRICAL

Long-life, high-efficacy, micro-power LEDs, illumination for extended service life. Greater than 70% LED lumen maintenance at 100,000 hours (L70>100,000). Selectable lumen and CCT technology allows easy field-adjustable capability, luminaire ships with maximum output and 4000K CCT setting. All CCTs are within 3 MacAdam ellipses, 80CRI. Driver operates at 120-277V input, 0-10V dimmable driver, dim-to-off voltage threshold of optional 12V AUX integrated driver ranges from 0.1V to 0.5V.

### MOUNTING

Designed to accommodate lay-in ceilings, Slot T, and T-bar suspension system for 5/8" and 3/8" width. Built-in earthquake clips come standard. Surface/cable mount applications, use surface/cable kit accessories. Plaster or sheetrock installations, select flange kit. Hard ceiling application, select hard ceiling kit.

### SENSORS (OPTIONAL)

SENSOR-BLE-7 Integral Microwave Bluetooth Wireless Motion/on/off/dimming/photosensing.  
 SENSOR-ANT-7 Integral Microwave Motion/on/off/dimming/photosensing.  
 CONTROL-AVI-LVFA AVI-ON Bluetooth Mesh Controller.

### STANDARD FINISH

90% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

### CUSTOM FINISH

AkzoNobel Interpon 600 Series anti-microbial White / Clear coating for healthcare application.

### CERTIFICATION

Option for "Assembled in America" upon request.  
 IC Rated, suitable for Damp location.  
 All luminaires are built to UL1598 standards and bear appropriate cULus labels.  
 For Emergency application, equipment with UL924 certified battery packs.  
 DLC® Standard (DesignLights Consortium Listed)

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



### SHIPPING DATA

Product	Measurement	Weight
LPA-1 (4-pack)	49"L x 13"W x 6"H	23 lb
LPA-2 (4-pack)	26"L x 26"W x 6"H	20 lb
LPA-4 (4-pack)	49"L x 26"W x 6"H	38 lb



## LPA SERIES SELECTABLE BACKLIT PANEL

ORDER INFORMATION					EXAMPLE: LPA 4 BACKLIT
Fixture	Series	Model	Finish	Input	
	LPA			blank	
Mounting					
Accessories Options					
A	SERIES				
	LPA	Selectable Lumen and CCT Panel			
B	MODEL				
	Code	Size	Power	CCT	lm/W (avg.)
	1-BACKLIT	1x4	25W / 30W / 40W	3500K / 4000K / 5000K	110lm/W
	2-BACKLIT	2x2	25W / 30W / 40W	3500K / 4000K / 5000K	125lm/W
	4-BACKLIT	2x4	30W / 40W / 50W	3500K / 4000K / 5000K	125lm/W
C	FINISH				
	WH	White			
	WH-AMP	Antimicrobial White Finish, AkzoNobel Interpon 600 Series for healthcare application			
D	INPUT				
	blank	120-277V, 0-10V Dimming			
E	MOUNTING				
	blank	Standard lay-in			
	MOUNT-LP-14-FGK	1x4 Flange Kit (Plaster, Sheetrock or Drywall)			
	MOUNT-LP-22-FGK	2x2 Flange Kit (Plaster, Sheetrock or Drywall)			
	MOUNT-LP-24-FGK	2x4 Flange Kit (Plaster, Sheetrock or Drywall)			
	MOUNT-LP-14-SMK	1x4 Surface Mount Kit for LPA-1			
	MOUNT-LP-22-SMK	2x2 Surface Mount Kit for LPA backlit			
	MOUNT-LP-24-SMK	2x4 Surface Mount Kit for LPA backlit			
	MOUNT-LP-PMK	Aircraft Cable Pendant Mount			
F	ACCESSORIES/OPTIONS				
	AIA	Assembled in America, compliant with BAA (COTS)			
	-C	6-Foot Flex Whip			
	EMB-H08170*	Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output			
	EMB-H18170*	Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output			
	SENSOR-BLE-7*	Integral Microwave Bluetooth Wireless Bi-Level Motion Sensor (ALS Control Mobile App)			
	SENSOR-ANT-7*	Integral Microwave Bi-Level Motion Sensor			
	CONTROL-LVFA*	AVI-ON Bluetooth Mesh Control System (12V DC Power by Driver)			
	GTD-ESRLUD**	Emergency Battery Generator Transfer Device 120-277 VAC Input			

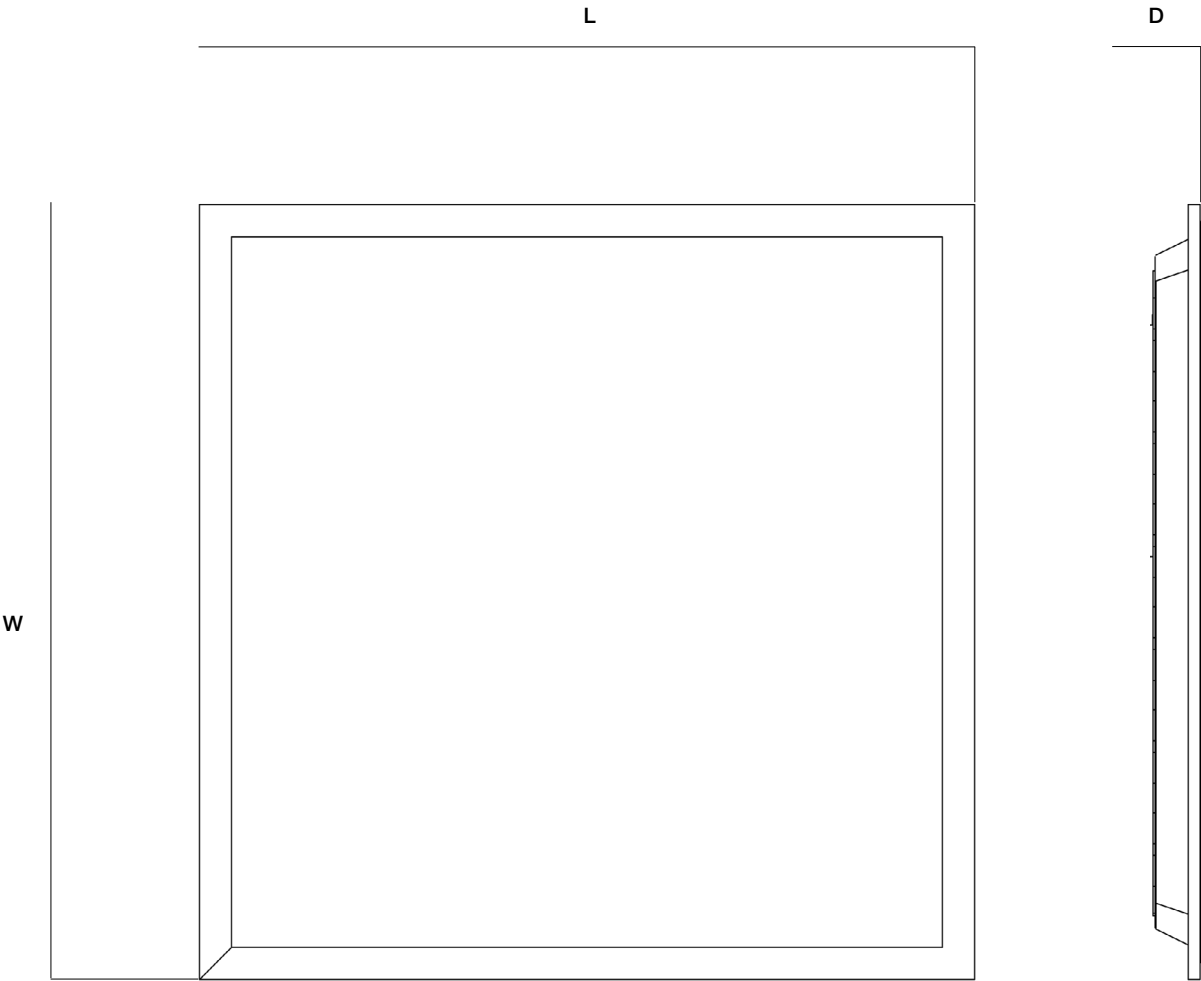
\*see page 5 for sensor and emb spec

\*\*see page 9 and 10 for GTD spec

LPA SERIES    SELECTABLE BACKLIT PANEL

DIMENSIONS

Model	L	W	D
LPA-1	47.80" (1213mm)	11.90" (301mm)	1.50" (38mm)
LPA-2	23.70" (603mm)	23.70" (603mm)	1.50" (38mm)
LPA-4	47.80" (1213mm)	23.70" (603mm)	1.50" (38mm)



## LPA SERIES SELECTABLE BACKLIT PANEL

### PERFORMANCE DATA - LPA

SYSTEM WATTS	SIZE	VOLTAGE	LUMEN	LPW	QTY ON PALLET
25W	LPA-1-BACKLIT	120-277V	2750	110	120 PCS
30W	LPA-1-BACKLIT	120-277V	3300	110	120 PCS
40W	LPA-1-BACKLIT	120-277V	4400	110	120 PCS
25W	LPA-2-BACKLIT	120-277V	3125	125	144 PCS
30W	LPA-2-BACKLIT	120-277V	3750	125	144 PCS
40W	LPA-2-BACKLIT	120-277V	5000	125	144 PCS
30W	LPA-4-BACKLIT	120-277V	3750	125	144 PCS
40W	LPA-4-BACKLIT	120-277V	5000	125	144 PCS
50W	LPA-4-BACKLIT	120-277V	6250	125	144 PCS

### DLC CODE

Part Number	DLC Product ID	DLC Class
LPA-1-BACKLIT (1x4)	S-EKCAUX	Standard
LPA-2-BACKLIT (2x2)	S-QW0FJD	Premium
LPA-4-BACKLIT (2x4)	S-H6NK5B	Premium

## LPA SERIES SELECTABLE BACKLIT PANEL

## SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
CONTROL-LVFA (see page 6 for detail)	-	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
SENSOR-BLE-7 (see page 7 for detail)	Microwave	up to 13FT	17FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Motion Daylight Sensing	ALS Control Bluetooth Mobile App
SENSOR-ANT-7	Microwave	up to 12FT	17FT radius	10V DC	On/Off/Dimming Motion Daylight Sensing	REMOTE-RC100



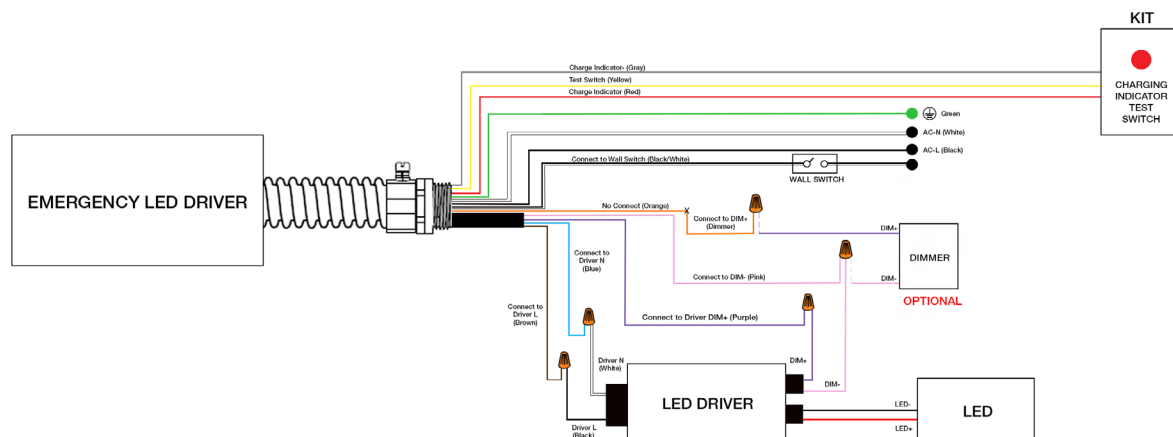
CONTROL-LVFA



SENSOR-ANT-7  
SENSOR-BLE-7

## EMB SPEC

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-H08170	90mins	100-347VAC	170VDC	8W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-H18170	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install



## LPA SERIES SELECTABLE BACKLIT PANEL

### CONTROL-AVI-LVFA SPEC

#### Status LEDs & Config Button

Quick and easy validation of wiring and network

#### Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

#### Terminal Blocks & Mounting Tabs

Faster, easier and lower cost installation eliminating connectors



#### Internal Antenna

Improved performance and eliminates risk of accidentally cutting a hanging wire

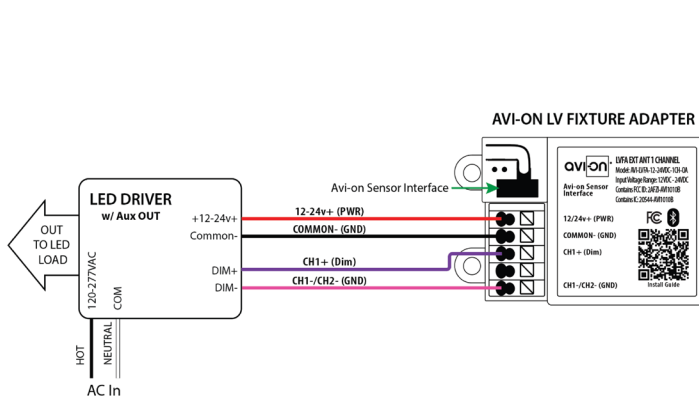
### SPECIFICATIONS

**INPUT VOLTAGE:** 12-24VDC  
**CURRENT:** 15mA without a Sensor  
 19mA with a DC PIR Sensor  
 48mA with a DC Microwave Sensor  
**0-10V DIMMING:** 12-24VDC  
**SIZE:** 2.30in x 1.43in x 0.75in  
 (58.2mm x 36.4mm x 19mm)  
**MOUNTING:** Removable mounting tabs  
**WEIGHT:** 0.45 oz (16g)  
**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

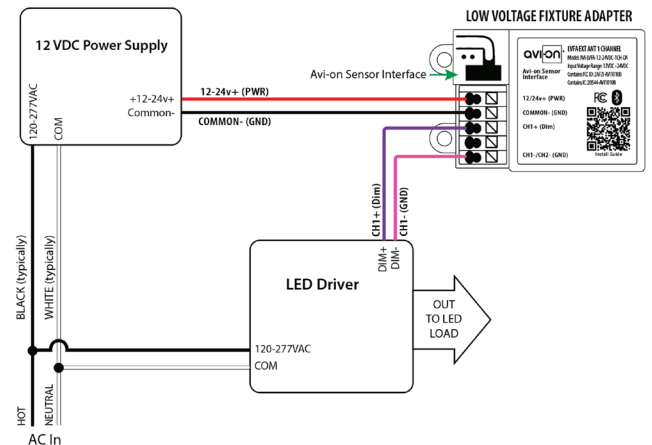
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 10 years optional  
**REGULATORY:** FCC: 2AFZI-AVI1010 B  
 IC: 20544-AVI1010 B  
 BQB: D031801, DID: 86303  
 UL 916, 2043 (Plenum Rated)

\*When communicating through the mesh, range is essentially unlimited (5000ft+)

### WIRING DIAGRAM



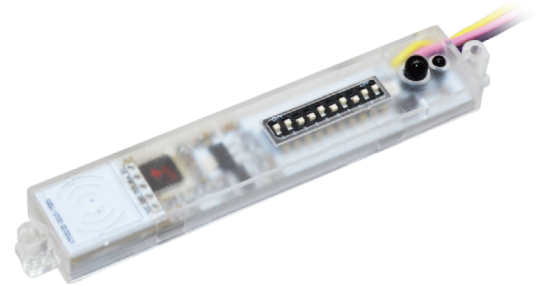
Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

## FEATURE

- **Installation:** Factory Install - Integral to Fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on or auto-off capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual)
- **Room and Zone Control:** Zoning and Grouping control, Scheduling

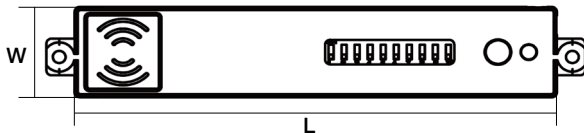


## SPECIFICATIONS

**SENSOR TYPE:** Microwave  
**WIRELESS STANDARDS:** Bluetooth SIG Mesh  
**INPUT VOLTAGE:** 10-14VDC, >50mA  
**CONTROL OUTPUT:** 0-10V  
**OPERATING TEMP:** -40°F ~ +158°F (-40°C ~ +70°C)

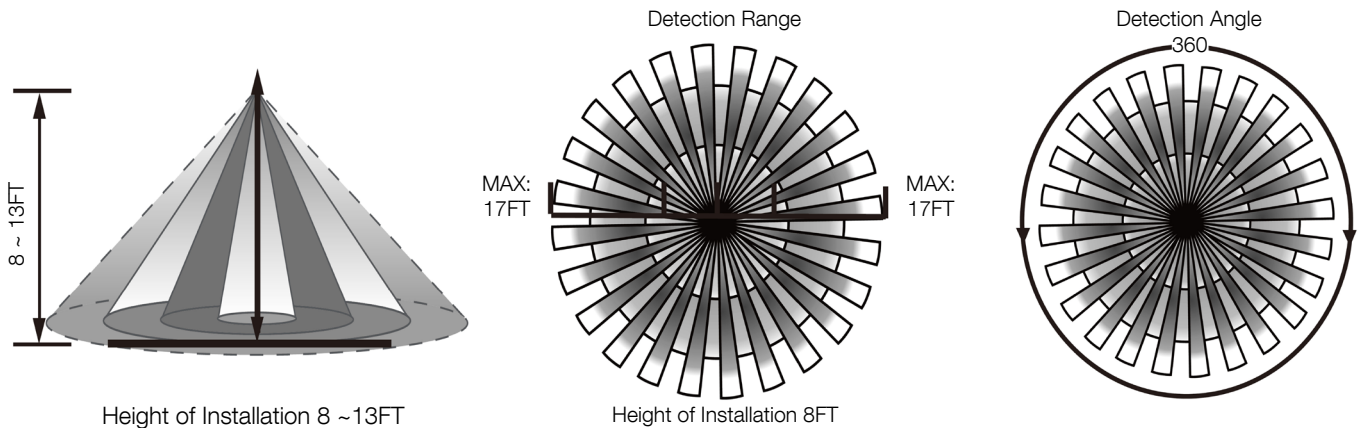
**COMMISSIONING RANGE:** 50FT  
**BLUETOOTH RANGE:** Integral antenna up to 164FT  
**DETECTION ANGLE:** 360°  
**MOUNTING HEIGHT:** Up to 13FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20

## DIMENSIONS



L	W
3.70" (94mm)	0.73" (18.5mm)

## COVERAGE PATTERNS



### FEATURE

- **Installation:** Factory Install - Integral to Fixture
- **Commissioning:** through Remote Control
- **Control:** Hold time, High-Low setting, Continuous Bi-Level Dimming, Code-Compliant Manual-On or Auto-Off Capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual)



### SPECIFICATIONS

**SENSOR TYPE:** Microwave  
**INPUT VOLTAGE:** 12-24VDC, >50mA  
**LIGHT-CONTROL:** 10 ~ 50LUX  
**CONTROL OUTPUT:** 0-10V  
**OPERATING TEMP:** -40°F ~ +158°F (-40°C ~ +70°C)

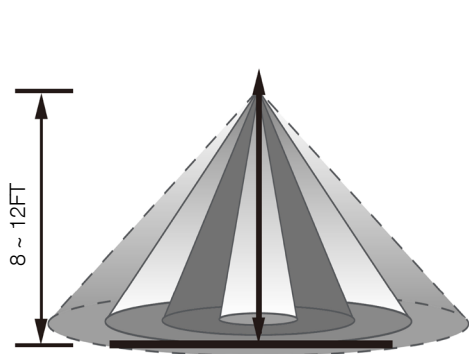
**COMMISSIONING RANGE:** 50FT from Remote Control  
**TIME SETTING:** 10sec ~ 60min (adjustable)  
**DETECTION ANGLE:** 360°  
**MOUNTING HEIGHT:** Up to 12FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20

### DIMENSIONS

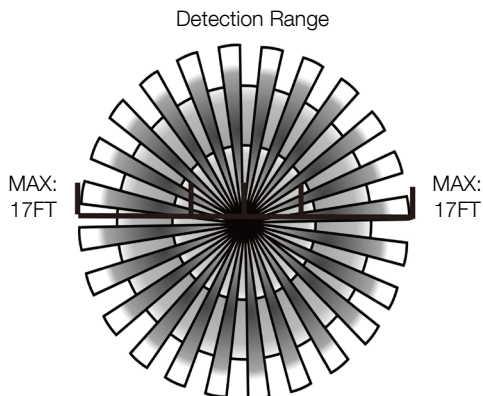


L	W
3.70" (94mm)	0.73" (18.5mm)

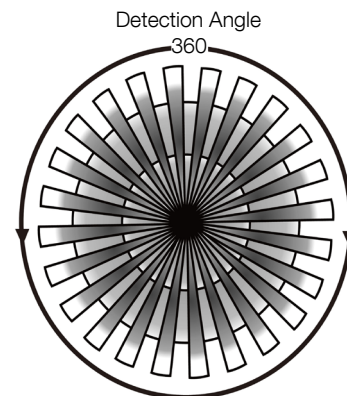
### COVERAGE PATTERNS



Height of Installation 8 ~ 12FT



Height of Installation 8FT





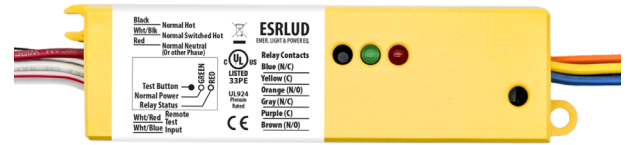
## GTD-ESRLUD Generator Transfer Device

Client:  
Project:  
Type:  
Quantity:

### CONSTRUCTION

Yellow metal casing. Integrates with dry contact systems to provide lighting during power outages. Features a slim enclosure, allowing for seamlessly integrating into existing building infrastructure.

Designed for commercial and industrial applications that require an emergency load to be switched on during a loss of normal power.



### SPECIFICATIONS

<b>COIL CURRENT:</b>	Normal Power = 6mA MAX
<b>COIL VOLTAGE INPUT:</b>	120-277V AC (50/60 Hz)
<b>EXPECTED RELAY LIFE:</b>	10 Million Cycles Min Mechanical
<b>RELAY CONTACT RATINGS:</b>	10 Amp Resistive @ 30 V DC 10 Amp General Use @ 277 V AC
<b>OPERATING TEMP:</b>	-30°F ~ +140°F (-34°C ~ +60°C)
<b>OPERATE TIME:</b>	18ms
<b>HUMIDITY RANGE:</b>	5-95% (Noncondensing)
<b>LED:</b>	Green = Normal Power Red = Relay Status
<b>DIMENSIONS:</b>	1.40"H x 5.63"W x 1.00"D
<b>WIRES:</b>	16", 600V Rated
<b>OVERRIDE (TEST SWITCH):</b>	No
<b>APPROVALS:</b>	UL924, C-UL, CE, ROHS
<b>NOTES:</b>	Device Draws no Current From Emergency Source

### TESTING

<b>INITIAL TEST FOR CORRECT WIRING:</b>	Apply Normal Power To Normal Power Input a. Green LED (Normal Power) should be ON b. Red LED (Relay Status) should be ON c. Load should be OFF d. Relay Contact (N/O) should be CLOSED
<b>LOCAL TEST BUTTON:</b>	1. Turn Switched Circuit OFF. Load be OFF. 2. Press and Hold "Local Test Button" 3. Load should Turn ON 4. Release "Local Test Button" and Emergency Light should Turn OFF.
<b>WALL SWITCH:</b>	1. Turn ON Wall Switch If not already ON 2. Load should Turn ON 3. Turn Wall Switch OFF 4. Load will Turn OFF

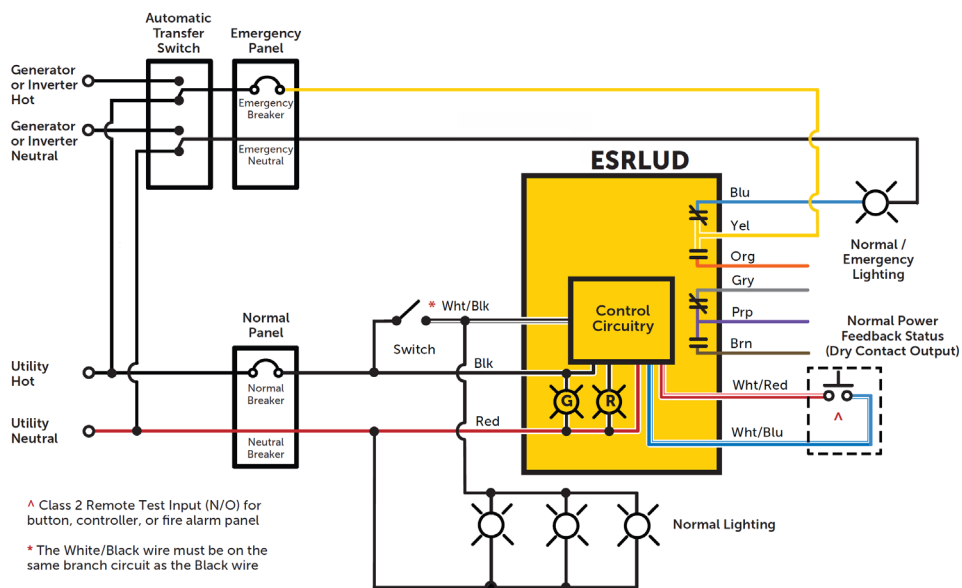
### TROUBLESHOOTING

CONDITION	ACTION
Green LED is OFF	<ul style="list-style-type: none"> <li>Check Normal Power Input Wiring (Black and Red Wires) and Voltage.</li> </ul>
Red LED is OFF but Load is OFF	<ul style="list-style-type: none"> <li>Check Bulbs and Ballast.</li> <li>Check Load Wiring (Blue Wire and Load's Neutral).</li> <li>Replace Unit. (Assuming N/C Contact is Used).</li> </ul>
Load is ON but Red LED is ON	<ul style="list-style-type: none"> <li>Replace Unit. (Assuming N/C Contact is Used).</li> </ul>
Red LED does not Turn OFF and Load does not Turn ON when being tested	<ul style="list-style-type: none"> <li>Check Bulbs and Ballast.</li> <li>Check Wiring Connections if Using a Remote Test Option.</li> <li>Press Local Test Button on the Unit.</li> <li>Replace Unit.</li> </ul>
Red LED will not Turn ON and Load will not Turn OFF	<ul style="list-style-type: none"> <li>Verify Status of Normal Power Input.</li> <li>Open Wall Switch Input.</li> <li>Verify That No Test Inputs are Stuck Closed.</li> </ul>

## GTD-ESRLUD Generator Transfer Device

### WIRING DIAGRAM

#### USING EMERGENCY LIGHTING AS NORMAL LIGHTING



#### OVERRIDING A 0-10V DIMMER

