

LPAHC SERIES HIGH CEILING PANEL

Client:
Project:
Type:
Quantity:

CONSTRUCTION

Constructed of a heavy gauge steel body. Housing embossed for maximum rigidity. Rounded side flanges for safe handling, T-bar safety clips included on the side of the fixture.

OPTICS

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

12V Audio-Jack sensor socket built-in.

ELECTRICAL

Long-life, high-efficacy, micro-power LEDs, illumination for extended service life.

$L_{70} > 100,000$ hr

Selectable lumen and CCT technology allows easy field-adjustable capability, luminaire ships with maximum output and 4000K CCT setting.

-40°C up to 50°C (-40°F up to 122°F) maximum ambient temperature.

All CCTs are within 5 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.

Surge protection: L-N: 6kV; L/N-GND: 6kV

Over temperature protection.

MOUNTING

Designed to accommodate lay-in ceilings, Slot T, and T-bar suspension system for 5/8" and 3/8" width. Built-in T-Bar safety clips come standard.

Suspended applications, use Cable Kit accessories.

Plaster, Sheetrock or Drywall application, use Flange Kit accessories.

SENSORS (OPTIONAL)

SENSOR-ANT-6-4T - Plug-N-Play PIR on/off/dimming/photosensing (40FT MH).

SENSOR-ANT-6-4T-H - Plug-N-Play PIR on/off/dimming/photosensing (50FT MH).

SENSOR-BLE-6-4T - Plug-N-Play PIR ALS Control Bluetooth/on/off/dimming (40FT MH).

SENSOR-BLE-6-4T-H - Plug-N-Play PIR ALS Control Bluetooth/on/off/dimming (50FT MH).

"-EM" - Compatible with Emergency Battery (Auto-bypass)

CONTROL-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 are painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

CERTIFICATION

Option for "Assembled in America" upon request.

Suitable for Damp location.

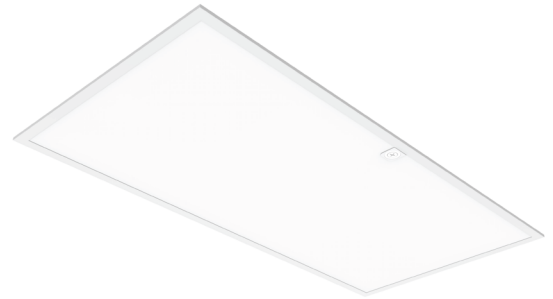
All luminaires are built to UL1598 standards and bear appropriate cULus labels.

For Emergency application, equipment with UL924 certified battery packs.

DLC® Standard (DesignLights Consortium Listed)

WARRANTY

5 year warranty, see Limited Warranty for additional information.



Driver enclosure de-attached from fixture

SHIPPING DATA

| Product | Measurement | Weight |
|---------|-------------------|--------|
| LPAHC-2 | 26"L x 26"W x 6"H | 9 lb |
| LPAHC-4 | 49"L x 26"W x 6"H | 15 lb |



LPAHC SERIES HIGH CEILING PANEL

| ORDER INFORMATION | | | | | EXAMPLE: LPAHC 4 MC BACKLIT |
|-------------------|-----------------|--|--------------------|---------------|-----------------------------|
| Fixture | Series | Model | | Finish | Input |
| | LPAHC | | | blank | blank |
| Mounting | | | | | |
| Accessories | | | | | |
| Options | | | | | |
| A | SERIES | | | | |
| | LPAHC | LPA High Ceiling Panel | | | |
| B | MODEL | | | | |
| | Code | Size | Power | CCT | lm/W (avg.) |
| | 2MC-BACKLIT | 2x2 | 100W / 150W / 210W | 4000K / 5000K | 160lm/W |
| | 4MC-BACKLIT | 2x4 | 180W / 260W / 325W | 4000K / 5000K | 166lm/W |
| C | FINISH | | | | |
| | blank | White | | | |
| D | INPUT | | | | |
| | blank | Dim-to-off Driver 120-277V, 0-10V Dimming 12V AUX Output | | | |
| E | MOUNTING | | | | |
| | blank | Standard lay-in | | | |
| | MOUNT-LP-PMK | Aircraft Cable Pendant Mount | | | |
| | MOUNT-LP-22-FGK | 2x2 Flange Kit (Plaster, Sheetrock or Drywall) | | | |
| | MOUNT-LP-24-FGK | 2x4 Flange Kit (Plaster, Sheetrock or Drywall) | | | |

LPAHC SERIES HIGH CEILING PANEL

F

ACCESSORIES/OPTIONS

| | |
|------------------------------|---|
| AIA | Assembled in America, compliant with BAA (COTS) |
| -C | 6-Foot Flex Whip |
| EMB-H40170* | Self-Diagnostic Emergency Battery 40W 100-347VAC Input 170VDC Output |
| SENSOR-ANT-6-4T* | Plug-N-Play PIR on/off/dimming/photosensing up to 40FT MH |
| SENSOR-ANT-6-4T-EM* | Plug-N-Play PIR on/off/dimming/photosensing for EMB application up to 40FT MH |
| SENSOR-ANT-6-4T-H* | Plug-N-Play PIR on/off/dimming/photosensing up to 50FT MH |
| SENSOR-ANT-6-4T-H-EM* | Plug-N-Play PIR on/off/dimming/photosensing for EMB application up to 50FT MH |
| SENSOR-BLE-6-4T* | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) |
| SENSOR-BLE-6-4T-EM* | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application |
| SENSOR-BLE-6-4T-H* | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) up to 50FT MH |
| SENSOR-BLE-6-4T-H-EM* | Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application up to 50FT MH |
| GTD-ESRLUD** | Emergency Battery Generator Transfer Device 120-277 VAC Input |
| REMOTE-RC100 | Handheld Remote Commissioning Tool for SENSOR-ANT (1 per job) |
| CONTROL-LVFA* | AVI-ON Bluetooth Mesh Control System (12V DC Power by Driver) |

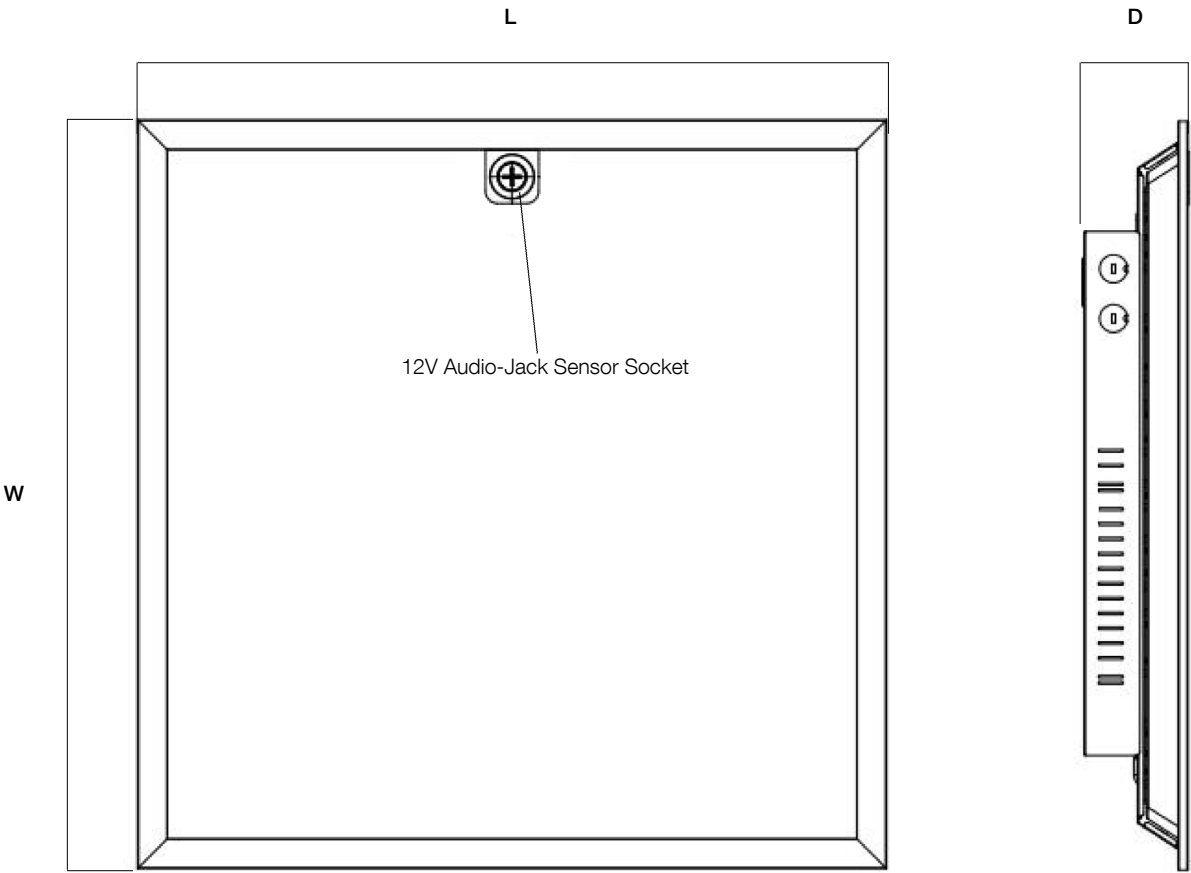
*see page 6 for sensor and emb spec

**see page 10 and 11 for GTD spec

LPAHC SERIES HIGH CEILING PANEL

DIMENSIONS

| Model | L | W | D |
|---------|-----------------|----------------|--------------|
| LPAHC-2 | 23.70" (603mm) | 23.70" (603mm) | 3.40" (86mm) |
| LPAHC-4 | 47.80" (1213mm) | 23.70" (603mm) | 3.40" (86mm) |



LPAHC SERIES HIGH CEILING PANEL

PERFORMANCE DATA - LPA

| SYSTEM WATTS | SIZE | VOLTAGE | ACTUAL CONSUMPTION | LUMEN | LPW |
|--------------|-------------------|----------|--------------------|-------|-----|
| 100 | LPAHC-2MC-BACKLIT | 120-277V | 99W | 15840 | 160 |
| 150 | LPAHC-2MC-BACKLIT | 120-277V | 148W | 23680 | 160 |
| 210 | LPAHC-2MC-BACKLIT | 120-277V | 208W | 33282 | 160 |
| 180 | LPAHC-4MC-BACKLIT | 120-277V | 175W | 29050 | 166 |
| 260 | LPAHC-4MC-BACKLIT | 120-277V | 253W | 41998 | 166 |
| 325 | LPAHC-4MC-BACKLIT | 120-277V | 316W | 52604 | 166 |

DLC CODE

| Part Number | DLC Product ID | DLC Class |
|-------------------------|----------------|-----------|
| LPAHC-2MC-BACKLIT (2x2) | pending | Premium |
| LPAHC-4MC-BACKLIT (2x4) | pending | Premium |

LPAHC SERIES HIGH CEILING PANEL

SENSOR SPEC

| Model | Type | Mounting | Coverage | Input | Function | Programmable |
|---|------|--------------------------|-------------|--------|---|--|
| SENSOR-ANT-6-4T SENSOR-ANT-6-4T-H SENSOR-ANT-6-4T-EM-H | PIR | up to 40FT up to 50FT | 30FT radius | 12V DC | On/Off/Dimming | REMOTE-RC100 |
| SENSOR-BLE-6-4T SENSOR-BLE-6-4T-H SENSOR-BLE-6-4T-EM-H (see page 6 for detail) | PIR | up to 40FT up to 50FT | 30FT radius | 12V DC | Bluetooth Mesh On/Off/Dimming Daylight Harvesting | ALS Control Bluetooth Mobile App |



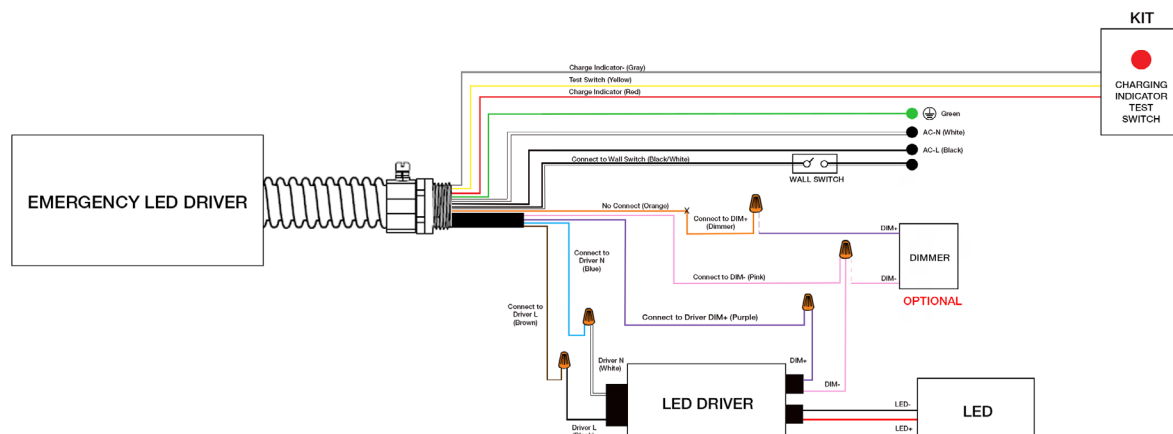
SENSOR-ANT-6-4T / 4T-H / 4T-EM-H
SENSOR-BLE-6-4T / 4T-H / 4T-EM-H



CONTROL-LVFA

EMB SPEC

| Model | Battery Capacity | Input | Output | Output Power | Operating Temp | Installation |
|------------|------------------|------------|--------|--------------|----------------------------|--------------------------------|
| EMB-H40170 | 90mins | 100-347VAC | 170VDC | 40W | 0°C ~ 50°C 32°F ~ 122°F | Factory or Field Install |



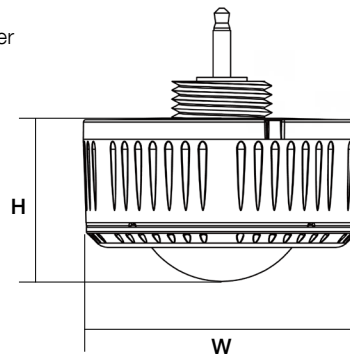
FEATURE

- **Installation:** Plug-N-Play via AUX socket on attached 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) and Daylight Harvesting
- **Room and Zone Control:** Zoning and Grouping control, Scheduling

SPECIFICATIONS

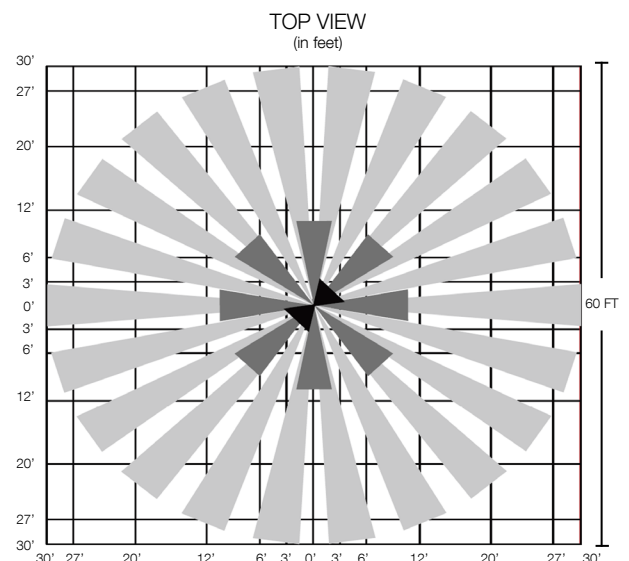
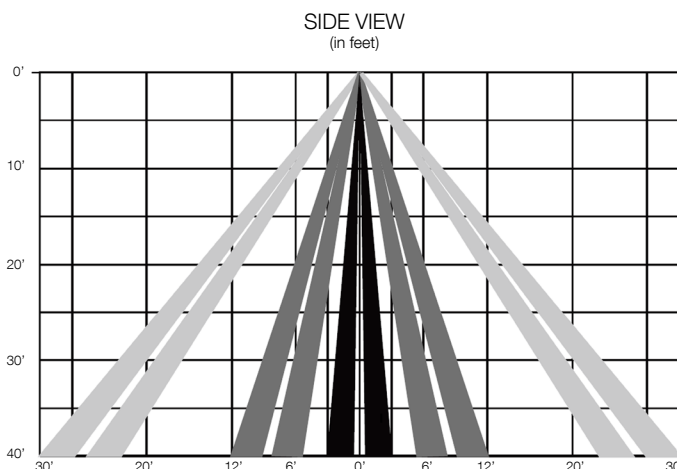
| | |
|----------------------------------|--|
| SENSOR TYPE: | Passive Infrared Sensor (PIR) |
| WIRELESS STANDARDS: | 5.0 Bluetooth Mesh |
| STANDARD OPTION: | SENSOR-BLE-6-4T |
| EMB OPTION: | SENSOR-BLE-6-4T-EM (Designed for fixtures with emergency kit. When the voltage power is off, the sensor will stop working.) |
| INPUT VOLTAGE: | 12-24VDC, >50mA |
| CONTROL OUTPUT: | 0-10V |
| OPERATING TEMP: | -4°F ~ +140°F (-20°C ~ +60°C) |
| COMMISSIONING RANGE: | 50FT |
| BLUETOOTH RANGE: | 164FT |
| DETECTION ANGLE: | 360° |
| MOUNTING HEIGHT: | Up to 40FT |
| WARRANTY: | 5 years |
| IP RATING: | IP65 |
| FACTORY DEFAULT SETTINGS: | 100% Brightness for 5 min Dim Down to 30% Hold for 10 min Turn Off |

DIMENSIONS



| H | W |
|-------------------|-----------------|
| 1.03" (26.2mm) | 2.17" (55mm) |

COVERAGE PATTERNS



ORDER CODES

| | |
|-----------------------------|--|
| SENSOR-BLE-6-4T | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 40FT MH. |
| SENSOR-BLE-6-4T-EM | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 40FT MH w/ EMB. |
| SENSOR-BLE-6-4T-H | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 50FT MH. |
| SENSOR-BLE-6-4T-H-EM | "Plug-N-Play" Integral Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) up to 50FT MH w/ EMB. |



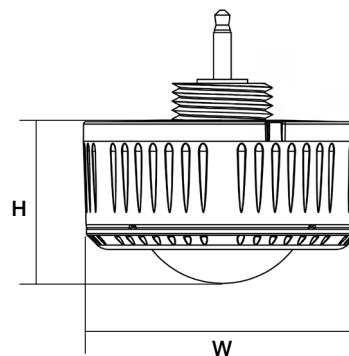
FEATURE

- **Installation:** Plug-N-Play via AUX Socket on Attached 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) and Daylight

SPECIFICATIONS

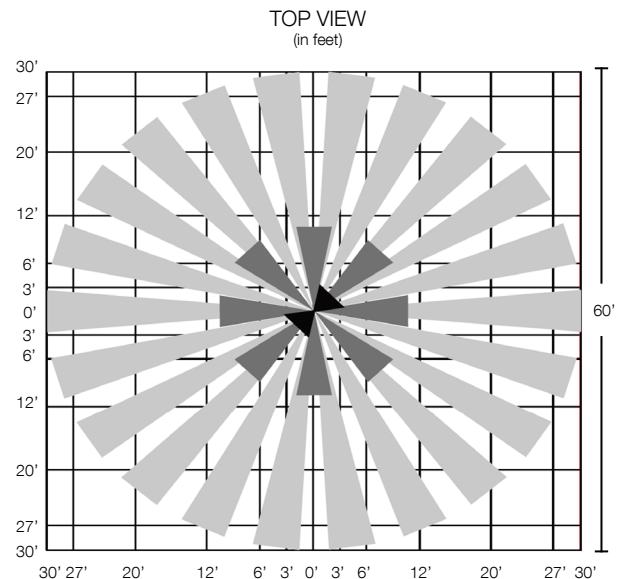
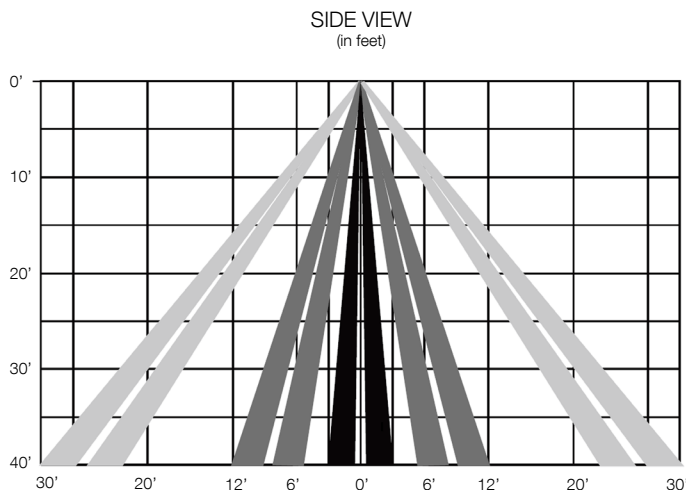
| | |
|-----------------------------|--|
| SENSOR TYPE: | Passive Infrared Sensor (PIR) |
| STANDARD OPTION: | SENSOR-ANT-6-4T |
| EMB OPTION: | SENSOR-ANT-6-4T-EM (Designed for fixtures with emergency kit. When the voltage power is off, the sensor will stop working.) |
| INPUT VOLTAGE: | 12-24VDC, >30mA |
| LIGHT CONTROL: | 10 ~ 50LUX |
| CONTROL OUTPUT: | 0-10V |
| OPERATING TEMP: | -4°F ~ +140°F (-20°C ~ +60°C) |
| COMMISSIONING RANGE: | 50FT from Remote Control |
| TIME SETTING: | 10sec ~ 60min (adjustable) |
| DETECTION ANGLE: | 360° |
| MOUNTING HEIGHT: | Up to 50FT. |
| WARRANTY: | 5 years |
| IP RATING: | IP65 |

DIMENSIONS



| H | W |
|-------------------|-----------------|
| 1.03" (26.2mm) | 2.17" (55mm) |

COVERAGE PATTERNS



ORDER CODES

| | |
|-----------------------------|---|
| SENSOR-ANT-6-4T | Plug-N-Play PIR on/off/dimming/photosensing up to 40FT MH |
| SENSOR-ANT-6-4T-EM | Plug-N-Play PIR on/off/dimming/photosensing for EMB application up to 40FT MH |
| SENSOR-ANT-6-4T-H | Plug-N-Play PIR on/off/dimming/photosensing up to 50FT MH |
| SENSOR-ANT-6-4T-H-EM | Plug-N-Play PIR on/off/dimming/photosensing for EMB application up to 50FT MH |



LPAHC SERIES HIGH CEILING PANEL

CONTROL-AVI-LVFA SPEC

Status LEDs & Config Button

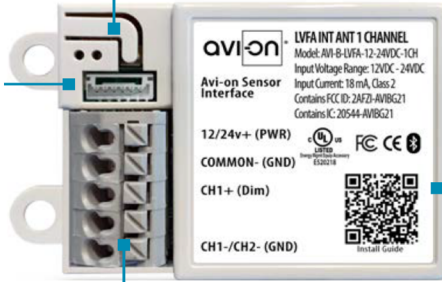
Quick and easy validation of wiring and network

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

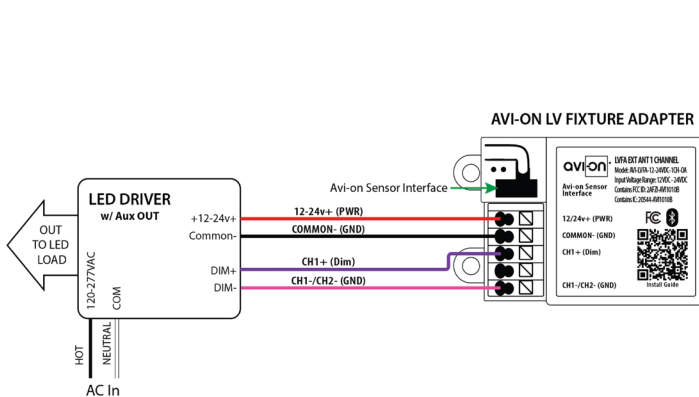
SPECIFICATIONS

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)

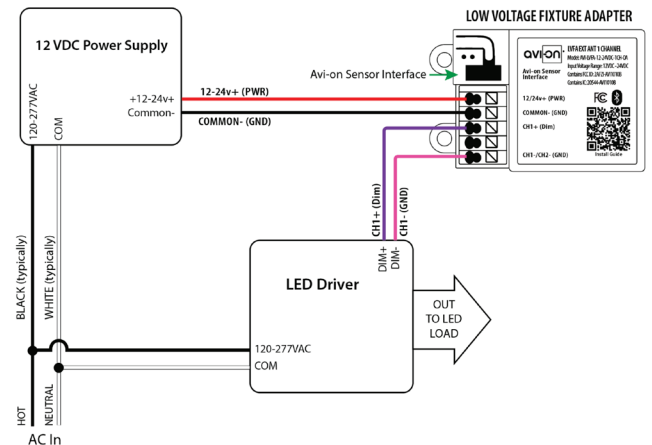
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: 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

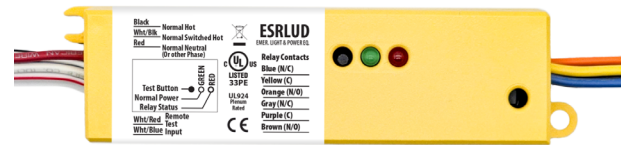
GTD-ESRLUD Generator Transfer Device

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

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

TESTING

| | |
|---|--|
| INITIAL TEST FOR CORRECT WIRING: | 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 |
| LOCAL TEST BUTTON: | 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. |
| WALL SWITCH: | 1. Turn ON Wall Switch If not already ON 2. Load should Turn ON 3. Turn Wall Switch OFF 4. Load will Turn OFF |

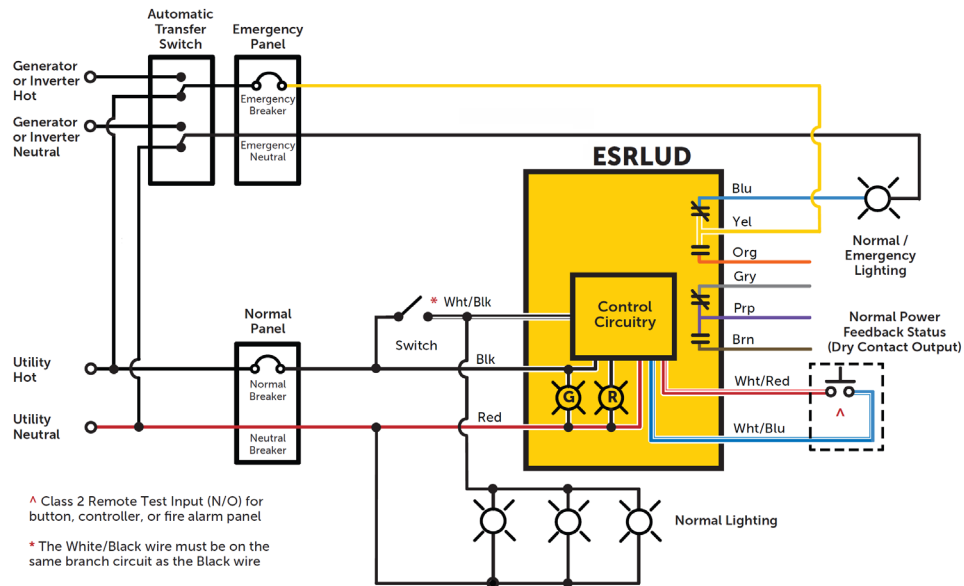
TROUBLESHOOTING

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

GTD-ESRLUD Generator Transfer Device

WIRING DIAGRAM

USING EMERGENCY LIGHTING AS NORMAL LIGHTING



OVERRIDING A 0-10V DIMMER

