

## ILxA-MC SERIES SELECTABLE LINEAR STRIP

Client:  
 Project:  
 Type:  
 Quantity:

### CONSTRUCTION

4-Foot compact design channel formed from cold-rolled 22-gauge steel with matte White finish. 1/2" knockout made on end cap for sensor or surface conduit mount.

### OPTICS

End-to-end U-shaped frosted polycarbonate (PC) lens standard.

### ELECTRICAL

Delivered 130lm/W efficacy LEDs offer 80+ color rendering index (CRI).

L70 >100,000 hours expected life @50°C ambient.

L70 >130,000 hours expected life @25°C ambient.

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

Selectable lumen and CCT technology allows easy field-adjustable capability.

Luminaire ships with maximum output and 4000K CCT setting.

Driver operates at 120-277V input, 0-10V dimmable driver, dimmable down to 10%.



### SENSORS (OPTIONAL)

SENSOR-819-O1 End mount on/off motion sensor with lowbay lens.

SENSOR-819-D1 End mount on/off/dimming and photocell sensor with lowbay lens.

SENSOR-BLE-819 End mount ALS CONTROL bluetooth on/off motion sensor lowbay lens.

SENSOR-BLE-7 Integral Microwave Bluetooth Wireless Motion/on/off/dimming/photosensing.

SENSOR-ANT-3C-B1 Integral Microwave Motion/on/off/dimming/photosensing.

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

### MOUNTING

Designed for direct wire or as a portable luminaire with use of power cord.\*

Surface mountable underneath electrical box (5" OD beauty ring included).

\*Power cord - optional add-on.

### SHIPPING DATA

| Product | Measurement      | Weight |
|---------|------------------|--------|
| IL2A-MC | 24"L x 3"W x 3"H | 3 lb   |
| IL4A-MC | 48"L x 3"W x 3"H | 5 lb   |
| IL8A-MC | 96"L x 3"W x 3"H | 10 lb  |

### STANDARD FINISH

Corrosion resistant semi-gloss White finish, suitable for damp location.

### CUSTOM FINISH

Anti-Microbial White finish.

### CERTIFICATION

Damp location label standard.

Meets Buy America Act requirements.

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 Qualified).

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



## ILxA-MC SERIES SELECTABLE LINEAR STRIP

| ORDER INFORMATION      |                     |                                                                                              |                 | EXAMPLE: IL 4A-MC WH UD |                          |
|------------------------|---------------------|----------------------------------------------------------------------------------------------|-----------------|-------------------------|--------------------------|
| Fixture                | Series              | Size                                                                                         | Finish          | Input                   |                          |
|                        | IL                  | 4A-MC                                                                                        | WH              |                         |                          |
| Accessories<br>Options |                     |                                                                                              |                 |                         |                          |
| A                      | SERIES              |                                                                                              |                 |                         |                          |
|                        | IL                  | Linear Strips                                                                                |                 |                         |                          |
| B                      | SIZE                |                                                                                              |                 |                         |                          |
|                        | Code                | Size                                                                                         | Power           | CCT                     |                          |
|                        | 2A-MC               | 2-Foot                                                                                       | 15W / 20W / 25W | 3500K / 4000K / 5000K   |                          |
|                        | 4A-MC               | 4-Foot                                                                                       | 25W / 30W / 40W | 3500K / 4000K / 5000K   |                          |
|                        | 8A-MC               | 8-Foot                                                                                       | 65W / 75W / 90W | 3500K / 4000K / 5000K   |                          |
| C                      | FINISH              |                                                                                              |                 |                         |                          |
|                        | WH                  | White                                                                                        | AMP             | Anti-Microbial White    |                          |
| D                      | INPUT               |                                                                                              |                 |                         |                          |
|                        | UD                  | 120-277V, 0-10V Dimmable                                                                     |                 | MD                      | 120-347V, 0-10V Dimmable |
| E                      | ACCESSORIES/OPTIONS |                                                                                              |                 |                         |                          |
|                        | AIA                 | Assembled in America, compliant with BAA (COTS)                                              |                 |                         |                          |
|                        | 90CRI               | 90CRI                                                                                        |                 |                         |                          |
|                        | MOUNT-HIGHBAY-CK    | Aircraft Cable Hanger Kit (Pair)                                                             |                 |                         |                          |
|                        | EMB-8W-B**          | 90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output                |                 |                         |                          |
|                        | SENSOR-819-O1*      | End mount on/off motion sensor with lowbay lens                                              |                 |                         |                          |
|                        | SENSOR-819-D1*      | End mount on/off/dimming and photocell sensor with lowbay lens                               |                 |                         |                          |
|                        | SENSOR-BLE-819-L1*  | End Mount PIR Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) / L1: up to 20FT |                 |                         |                          |
|                        | SENSOR-BLE-7*       | Integral Microwave Bluetooth Wireless Bi-Level Motion Sensor (ALS Control Mobile App)        |                 |                         |                          |
|                        | SENSOR-ANT-3C-B1*   | Integral Microwave Bi-Level Motion Sensor                                                    |                 |                         |                          |
|                        | CONTROL-LVFA*       | AVI-ON Bluetooth Mesh Control System                                                         |                 |                         |                          |
|                        | SURGE-LSP4-U        | 10kV inline Surge Protection for Universal input                                             |                 |                         |                          |
|                        | REMOTE-RC100        | Handheld Remote Commissioning Tool for SENSOR-819-D1/D2 Only, ANT Series                     |                 |                         |                          |
|                        | WIREGUARD-IL4A-MC   | 4ft Wire Guard IL4A-MC (1:1) IL8A-MC (2:1)                                                   |                 |                         |                          |
|                        | -CORD               | 18-3 300V 6 Foot Cord                                                                        |                 |                         |                          |
|                        | -PLUG               | 18-3 300V 6 Foot and 3 Prong Plug                                                            |                 |                         |                          |

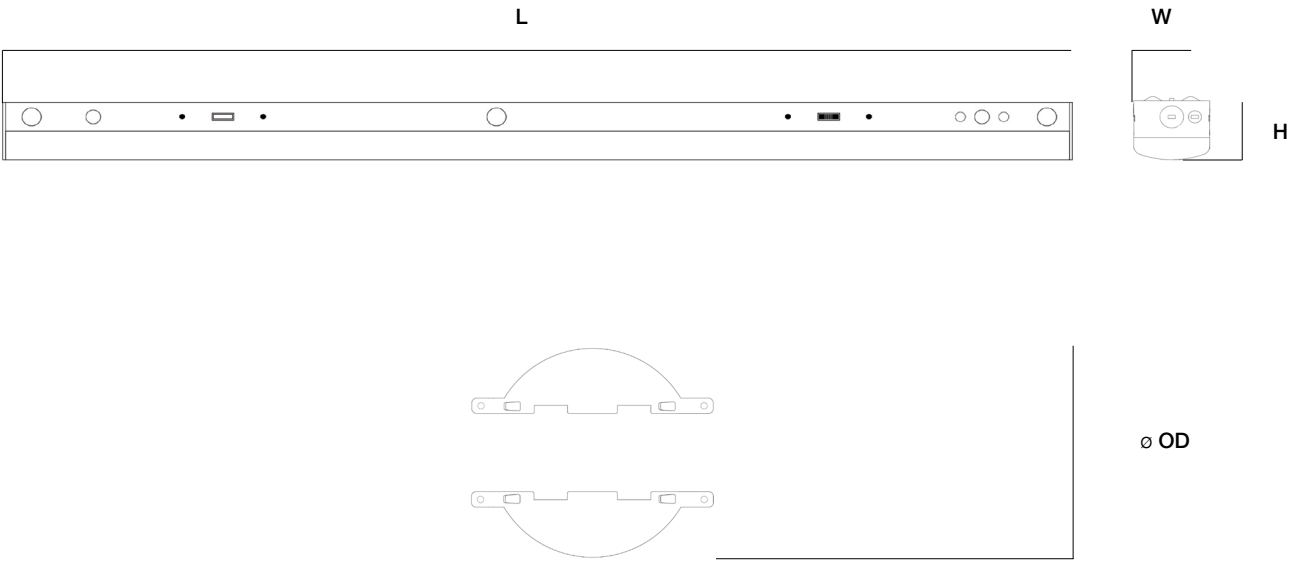
\*see page 5 for sensor spec

\*\*see page 6 for emb spec

**ILxA-MC SERIES    SELECTABLE LINEAR STRIP**

**DIMENSIONS**

| Model       | L               | W            | H            | OD              |
|-------------|-----------------|--------------|--------------|-----------------|
| IL2A-MC     | 23.30" (592mm)  | 2.80" (72mm) | 2.50" (64mm) |                 |
| IL4A-MC     | 47.30" (1202mm) | 2.80" (72mm) | 2.50" (64mm) | -               |
| IL8A-MC     | 95.30" (2420mm) | 2.80" (72mm) | 2.50" (64mm) |                 |
| Beauty Ring | -               | -            | -            | ø 5.00" (127mm) |



Surface Mount Beauty Ring  
 Mounts on back of the fixture

## ILxA-MC SERIES SELECTABLE LINEAR STRIP

### PERFORMANCE DATA

| SYSTEM WATTS | SIZE   | VOLTAGE  | 3500K |     | 4000K |     | 5000K |     |
|--------------|--------|----------|-------|-----|-------|-----|-------|-----|
|              |        |          | LUMEN | LPW | LUMEN | LPW | LUMEN | LPW |
| 15W          | 2-Foot | 120-277V | 1950  | 130 | 1965  | 131 | 1980  | 132 |
| 20W          | 2-Foot | 120-277V | 2600  | 130 | 2620  | 131 | 2640  | 132 |
| 25W          | 2-Foot | 120-277V | 3250  | 130 | 3275  | 131 | 3300  | 132 |
| 25W          | 4-Foot | 120-277V | 3250  | 130 | 3275  | 131 | 3300  | 132 |
| 30W          | 4-Foot | 120-277V | 3900  | 130 | 3930  | 131 | 3960  | 132 |
| 40W          | 4-Foot | 120-277V | 5200  | 130 | 5240  | 131 | 5280  | 132 |
| 65W          | 8-Foot | 120-277V | 8450  | 130 | 8515  | 131 | 8580  | 132 |
| 75W          | 8-Foot | 120-277V | 9750  | 130 | 9825  | 131 | 9900  | 132 |
| 90W          | 8-Foot | 120-277V | 11700 | 130 | 11790 | 131 | 11880 | 132 |

### DLC CODE

| Part Number | DLC Product ID | DLC Class |
|-------------|----------------|-----------|
| IL4A-MC     | S-7I9RS5       | Standard  |

## ILxA-MC SERIES SELECTABLE LINEAR STRIP

### SENSOR SPEC

| Model                                     | Type                  | Mounting   | Coverage    | Input     | Function                                                       | Programmable                           |
|-------------------------------------------|-----------------------|------------|-------------|-----------|----------------------------------------------------------------|----------------------------------------|
| SENSOR-819-O1                             | PIR                   | 20FT       | 30FT radius | Universal | On/Off                                                         | -                                      |
| SENSOR-819-D1                             | PIR                   | 20FT       | 30FT radius | Universal | On/Off/Dimming                                                 | REMOTE-RC100                           |
| SENSOR-BLE-819<br>(see page 9 for detail) | PIR                   | L1 - 20FT  | 30FT radius | Universal | Bluetooth Mesh<br>On/Off/Dimming<br>Daylight Harvesting        | ALS Control<br>Bluetooth<br>Mobile App |
| SENSOR-BLE-7<br>(see page 10 for detail)  | Microwave             | up to 13FT | 17FT radius | 12V DC    | Bluetooth Mesh<br>On/Off/Dimming<br>Motion<br>Daylight Sensing | ALS Control<br>Bluetooth<br>Mobile App |
| SENSOR-ANT-3C-B1                          | Microwave             | up to 12FT | 12FT radius | 10V DC    | On/Off/Dimming<br>Motion<br>Daylight Sensing                   | REMOTE-RC100                           |
| CONTROL-LVFA<br>(see page 7 for detail)   | Fixture<br>Controller | -          | -           | 12V DC    | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling                 | AVI-ON<br>Bluetooth<br>Mobile App      |



SENSOR-819-XX  
SENSOR-BLE-819



SENSOR-BLE-7



SENSOR-ANT-3C-B1



CONTROL-LVFA

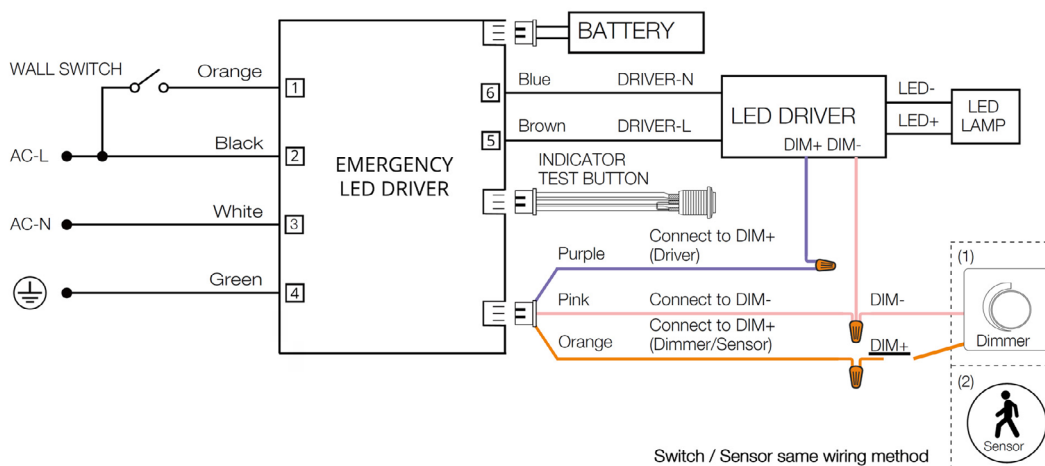


CONTROL-BLE-620

## ILxA-MC SERIES SELECTABLE LINEAR STRIP

### EMB SPEC

| Model    | Compatible Fixture | Battery Capacity | Input      | Output | Output Power | Operating Temp             | Installation                   |
|----------|--------------------|------------------|------------|--------|--------------|----------------------------|--------------------------------|
| EMB-8W-B | IL4A-MC            | 90mins           | 100-347VAC | 170VDC | 8W           | 0°C ~ 50°C<br>32°F ~ 122°F | Factory<br>or<br>Field Install |



## ILxA-MC SERIES SELECTABLE LINEAR STRIP

### CONTROL-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

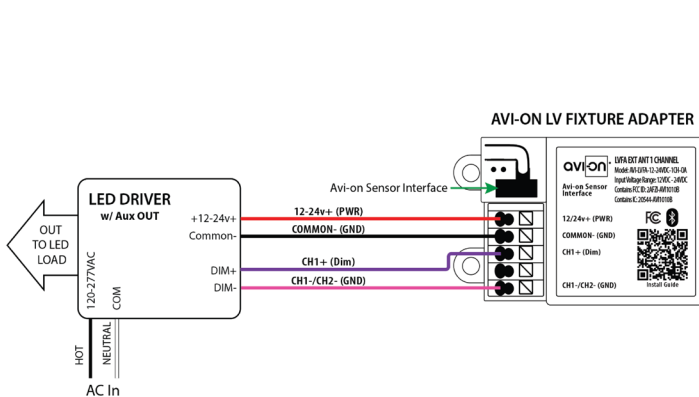
### SPECIFICATIONS

**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)

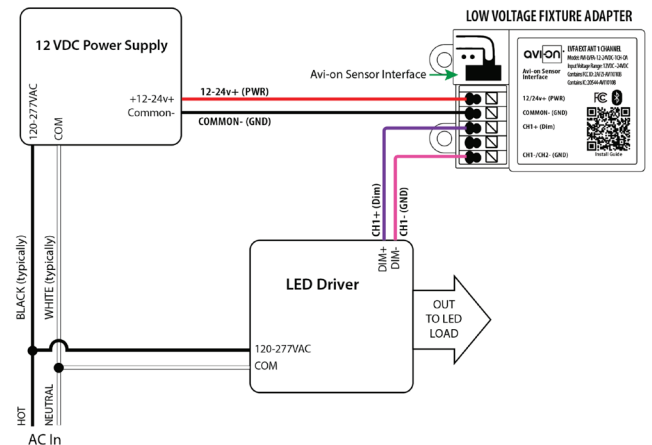
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years;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

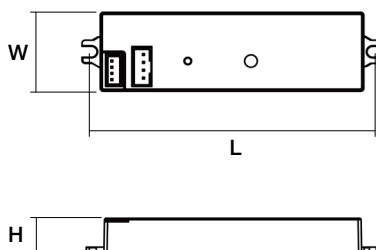
- **Installation:** Factory installed, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Dimming, High-End Trim, Zoning, Continuous Bi-level Dimming
- **CCT Tuning:** CCT Tuning feature for Dual/Multi-CCT LED board fixture only
- **Sensor:** Plug-N-Play with ALS Control sensors
- **Zone Control:** Zoning and Grouping control, Scheduling



### SPECIFICATIONS

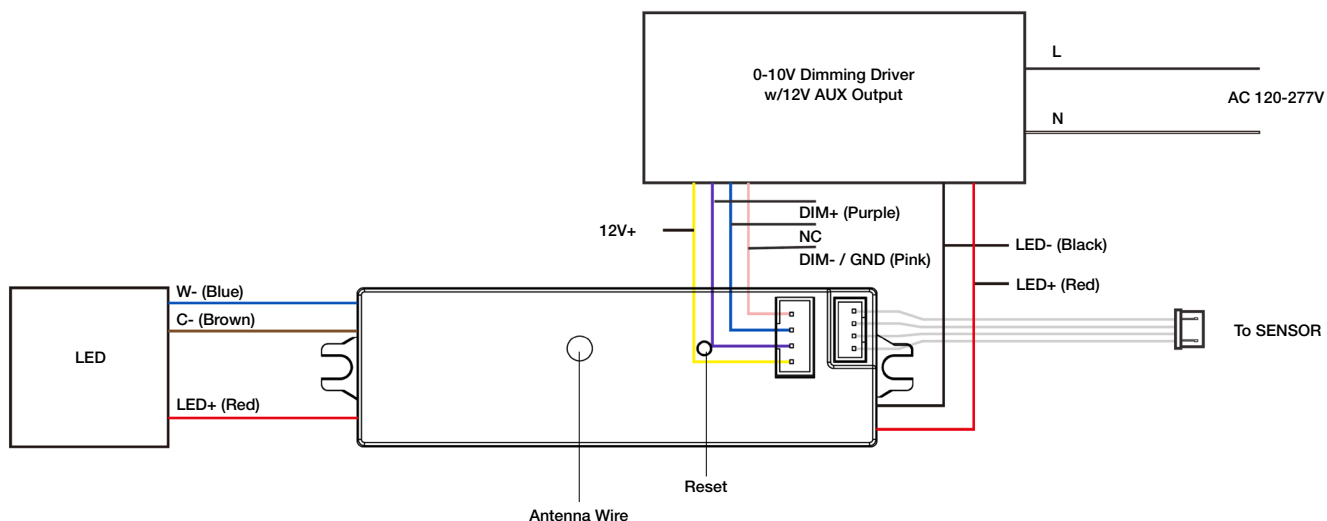
|                             |                                |
|-----------------------------|--------------------------------|
| <b>WIRELESS STANDARDS:</b>  | 5.0 Bluetooth Mesh             |
| <b>INPUT VOLTAGE:</b>       | 12-14VDC, >50mA                |
| <b>OUTPUT VOLTAGE:</b>      | LED Max. 150VDC Max. 2A        |
| <b>CONTROL OUTPUT:</b>      | 0-10V                          |
| <b>OPERATING TEMP:</b>      | -40°F ~ +158°F (-40°C ~ +70°C) |
| <b>COMMISSIONING RANGE:</b> | 50FT                           |
| <b>BLUETOOTH RANGE:</b>     | 100FT                          |
| <b>WARRANTY:</b>            | 5 years                        |
| <b>IP RATING:</b>           | IP20                           |

### DIMENSIONS



| L                 | H               | W                 |
|-------------------|-----------------|-------------------|
| 3.5"<br>(89mm)    | 0.43"<br>(11mm) | 1.00"<br>(26mm)   |
| Lead Wire         |                 | Antenna Wire      |
| 10.60"<br>(270mm) |                 | 10.60"<br>(270mm) |

### WIRING DIAGRAM





## SENSOR-BLE-819 BLUETOOTH PIR SENSOR

Client:  
Project:  
Type:  
Quantity:

### FEATURE

- **Installation:** Factory or Field Install End Mount 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) and Daylight Harvesting
- **Room and Zone Control:** Zoning and Grouping control, Scheduling

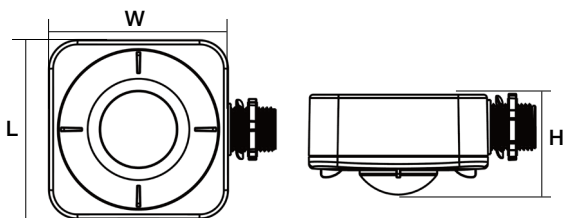


### SPECIFICATIONS

**SENSOR TYPE:** Passive Infrared Sensor (PIR)  
**WIRELESS STANDARDS:** Bluetooth SIG Mesh  
**INPUT VOLTAGE:** 120/277VAC  
**CONTROL OUTPUT:** 0-10V  
**OPERATING TEMP:** -40°F ~ +167°F (-40°C ~ +75°C)

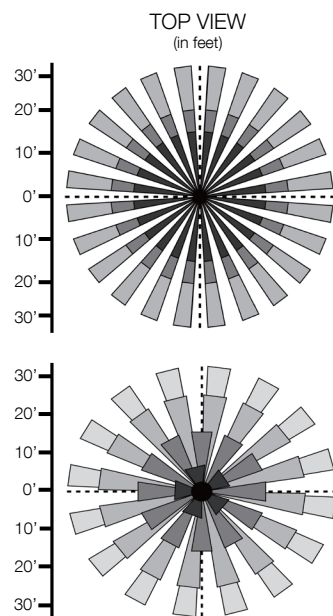
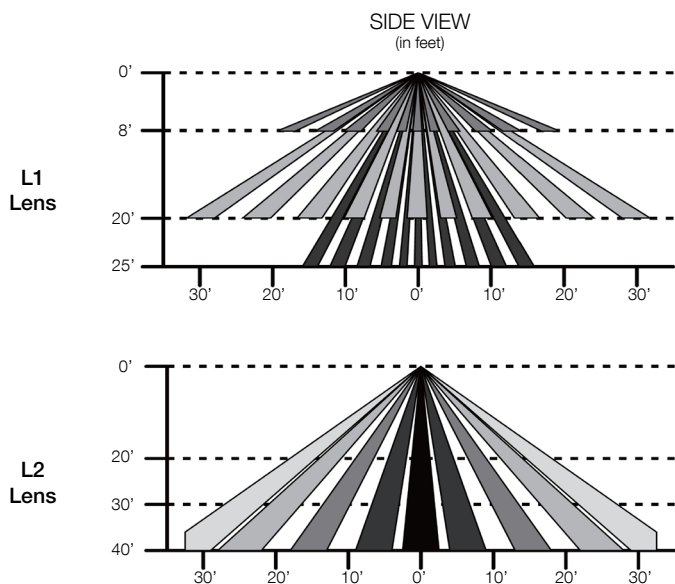
**COMMISSIONING RANGE:** 50FT  
**BLUETOOTH RANGE:** Integral antenna up to 100FT  
**DETECTION ANGLE:** Vertical 90° x Horizontal 360°  
**MOUNTING HEIGHT:** 8 - 40FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20 Damp

### DIMENSIONS



| L               | W                | H                 |
|-----------------|------------------|-------------------|
| 3.19"<br>(81mm) | 4.02"<br>(102mm) | 1.70"<br>(43.3mm) |

### COVERAGE PATTERNS



## 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

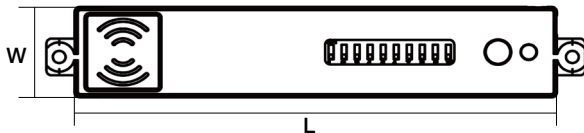


## SPECIFICATIONS

**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"<br>(94mm) | 0.73"<br>(18.5mm) |

## COVERAGE PATTERNS

