

## ILxA-G2 SERIES SELECTABLE LINEAR STRIP

Client:  
Project:  
Type:  
Quantity:

### CONSTRUCTION

Available with 2-Foot, 4-Foot and 8-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 150lm/W efficacy LEDs offer 80+ color rendering index (CRI).

L70 >100,000 hours expected life.

-20°C up to 50°C (-4°F up to 122°F) maximum operating temperature.

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

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



### 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.

### STANDARD FINISH

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

### 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-G2 SERIES SELECTABLE LINEAR STRIP

### ORDER INFORMATION EXAMPLE: IL 4A-G2-SC WH UD

Fixture      Series      Size      Finish      Input

**IL**      **WH**

Accessories  
Options

#### A SERIES

IL      Linear Strips

#### B SIZE

| Code            | Size   | Power                   | CCT                                   |
|-----------------|--------|-------------------------|---------------------------------------|
| <b>2A-G2-SC</b> | 2-Foot | 13W / 17W / 21W / 26W   | 3000K / 3500K / 4000K / 5000K / 6500K |
| <b>4A-G2-SC</b> | 4-Foot | 40W / 53W / 68W / 80W   | 3000K / 3500K / 4000K / 5000K / 6500K |
| <b>8A-G2-SC</b> | 8-Foot | 80W / 94W / 106W / 136W | 3000K / 3500K / 4000K / 5000K / 6500K |

#### C FINISH

**WH**      White

#### D INPUT

**UD**      120-277V, 0-10V Dimmable  
**MD**      120-347V, 0-10V Dimmable

#### E ACCESSORIES/OPTIONS

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| <b>BAA</b>                | Assembled in America, compliant with BAA (COTS)                                                      |
| <b>90CRI</b>              | 90CRI                                                                                                |
| <b>MOUNT-HIGHBAY-CK</b>   | Aircraft Cable Hanger Kit (Pair)                                                                     |
| <b>EMB-8W-B**</b>         | 90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output                        |
| <b>SENSOR-819-O1*</b>     | End mount on/off motion sensor with lowbay lens                                                      |
| <b>SENSOR-819-D1*</b>     | End mount on/off/dimming and photocell sensor with lowbay lens                                       |
| <b>SENSOR-BLE-819-L1*</b> | End Mount PIR Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) / <b>L1</b> : up to 20FT |
| <b>SENSOR-BLE-7*</b>      | Integral Microwave Bluetooth Wireless Bi-Level Motion Sensor (ALS Control Mobile App)                |
| <b>SENSOR-ANT-3C-B1*</b>  | Integral Microwave Bi-Level Motion Sensor                                                            |
| <b>CONTROL-LVFA*</b>      | AVI-ON Bluetooth Mesh Control System                                                                 |
| <b>SURGE-LSP4-U</b>       | 10kV inline Surge Protection for Universal input                                                     |
| <b>REMOTE-RC100</b>       | Handheld Remote Commissioning Tool for SENSOR-819-D1/D2 Only, ANT Series                             |
| <b>WIREGUARD-IL4A-MC</b>  | Wireguard - IL4A-G2 (1:1) IL8A-G2 (2:1)                                                              |
| <b>-CORD</b>              | 18-3 300V 6 Foot Cord                                                                                |
| <b>-PLUG</b>              | 18-3 300V 6 Foot and 3 Prong Plug                                                                    |

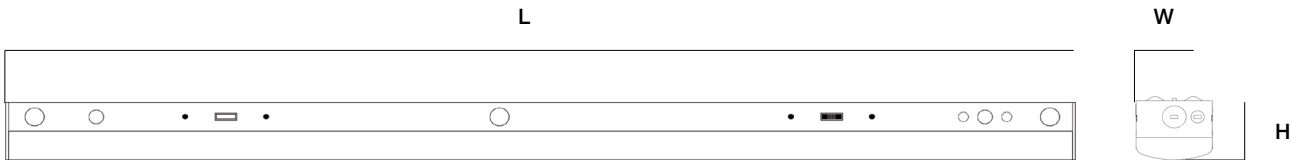
\*see page 5 for sensor spec

\*\*see page 6 for emb spec

ILxA-G2 SERIES    SELECTABLE LINEAR STRIP

DIMENSIONS

| Model      | L              | W           | H           | OD |
|------------|----------------|-------------|-------------|----|
| IL4A-G2-SC | 22.2" (564mm)  | 2.8" (72mm) | 2.5" (64mm) |    |
| IL4A-G2-SC | 47.3" (1202mm) | 2.8" (72mm) | 2.5" (64mm) | -  |
| IL8A-G2-SC | 94.2" (2392mm) | 2.8" (72mm) | 2.5" (64mm) |    |



## ILxA-G2 SERIES SELECTABLE LINEAR STRIP

### PERFORMANCE DATA

| MODEL      | SYSTEM WATTS | LUMENS (AVG.) | LPW (AVG.) |
|------------|--------------|---------------|------------|
| IL2A-G2-SC | 13W          | 1950          | 150        |
|            | 17W          | 2550          |            |
|            | 21W          | 3150          |            |
|            | 26W          | 3900          |            |
| IL4A-G2-SC | 40W          | 6000          | 150        |
|            | 53W          | 7950          |            |
|            | 68W          | 10200         |            |
|            | 80W          | 12000         |            |
| IL8A-G2-SC | 80W          | 12000         | 150        |
|            | 94W          | 14100         |            |
|            | 106W         | 15900         |            |
|            | 136W         | 20400         |            |

### DLC CODE

| Part Number                            | DLC Product ID | DLC Class |
|----------------------------------------|----------------|-----------|
| IL2A-G2-SC<br>IL4A-G2-SC<br>IL8A-G2-SC | pending        | Standard  |

## ILxA-G2 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<br>(see page 8 for detail) | 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

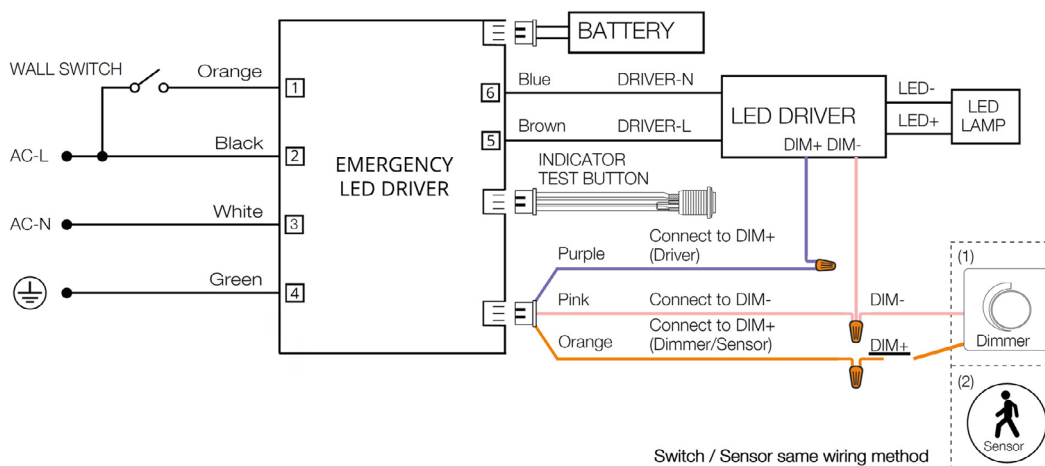


CONTROL-BLE-620

## ILxA-G2 SERIES SELECTABLE LINEAR STRIP

### EMB SPEC

| Model    | Compatible Fixture       | Battery Capacity | Input      | Output | Output Power | Operating Temp             | Installation                   |
|----------|--------------------------|------------------|------------|--------|--------------|----------------------------|--------------------------------|
| EMB-8W-B | IL4A-G2-SC<br>IL8A-G2-SC | 90mins           | 100-347VAC | 170VDC | 8W           | 0°C ~ 50°C<br>32°F ~ 122°F | Factory<br>or<br>Field Install |



## ILxA-G2 SERIES SELECTABLE LINEAR STRIP

### CONTROL-LVFA SPEC

#### Status LEDs & Config Button

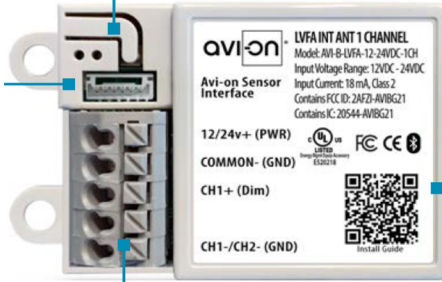
Quick and easy validation of wiring and network

#### 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

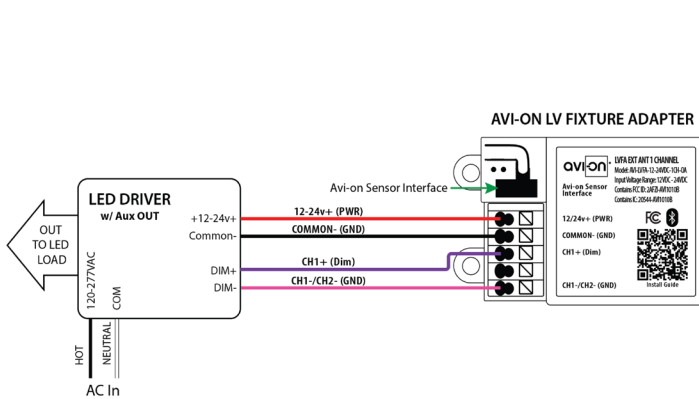
### SPECIFICATIONS

**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)

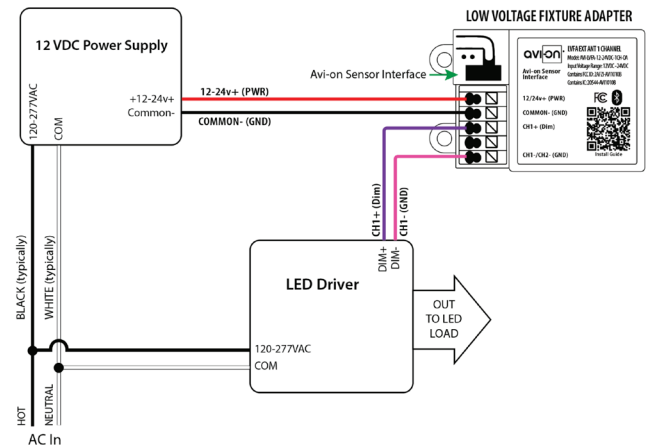
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 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 Install - Integral to Fixture
- **Commissioning:** through RC100 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)
- **Factory Default:** 100% Sensitivity / Hold on Time: 5mins / Daylight Sensor is ☼ / Dimming Level: 30% / Dimming Time: 60mins

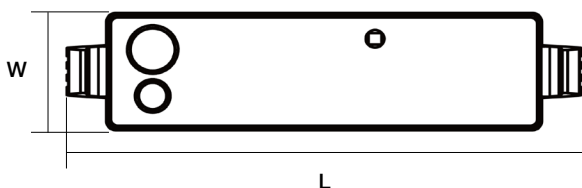


## SPECIFICATIONS

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

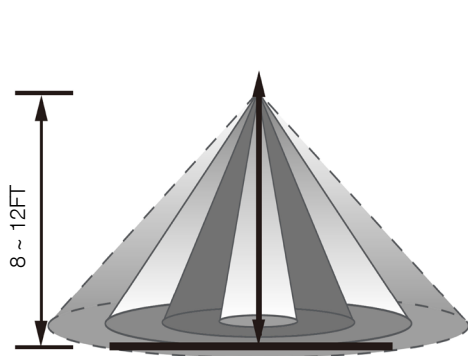
**COMMISSIONING RANGE:** 50FT from Remote Control  
**TIME SETTING:** 10sec ~ 60min (adjustable)  
**DETECTION ANGLE:** 360°  
**MOUNTING HEIGHT:** Up to 12FT  
**WARRANTY:** 5 years

## DIMENSIONS

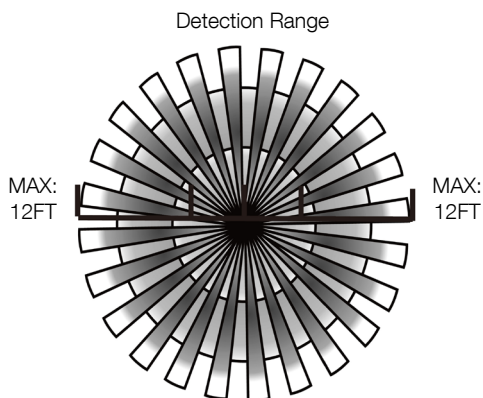


| L               | W                 |
|-----------------|-------------------|
| 3.70"<br>(94mm) | 0.73"<br>(18.5mm) |

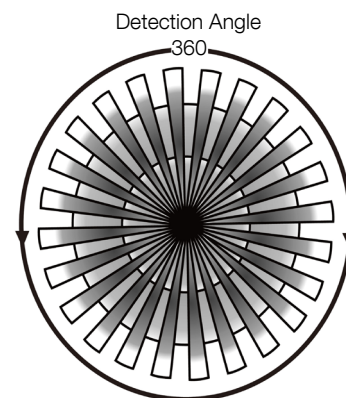
## COVERAGE PATTERNS



Height of Installation 8 ~ 12FT



Height of Installation 8FT



## ORDER CODES

**SENSOR-ANT-3C-B1** Integral Microwave Bi-Level Motion Sensor





### 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

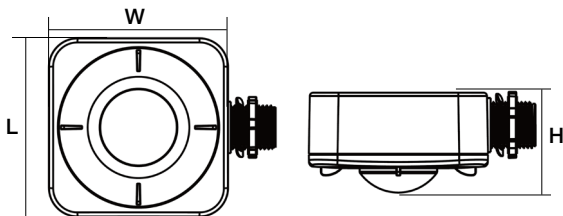


### SPECIFICATIONS

**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)

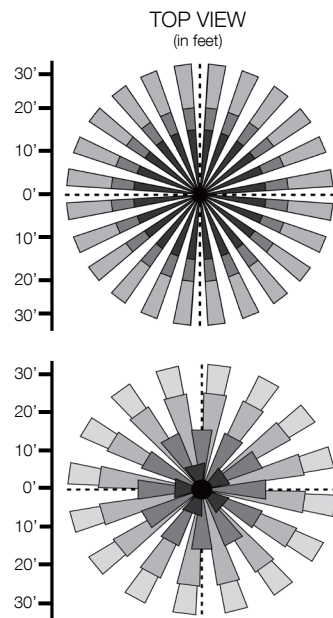
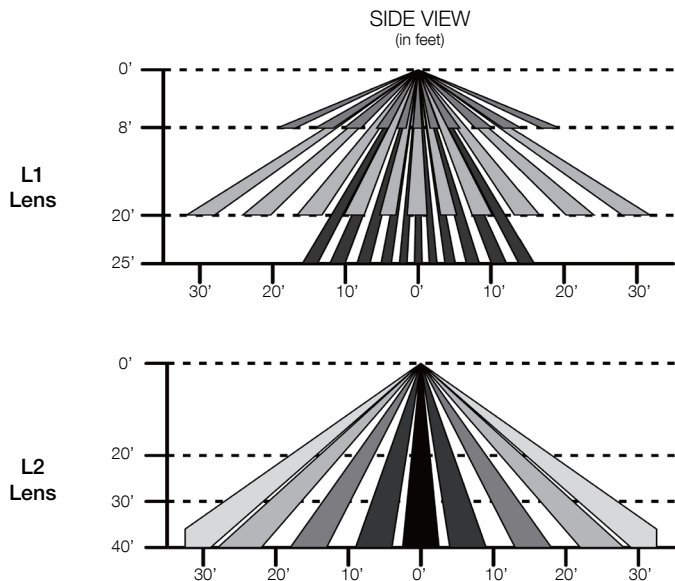
**COMMISSIONING RANGE:** 50FT  
**BLUETOOTH RANGE:** Integral antenna up to 100FT  
**DETECTION ANGLE:** Vertical 90° x Horizontal 360°  
**MOUNTING HEIGHT:** 8 - 40FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20 Damp

### 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)

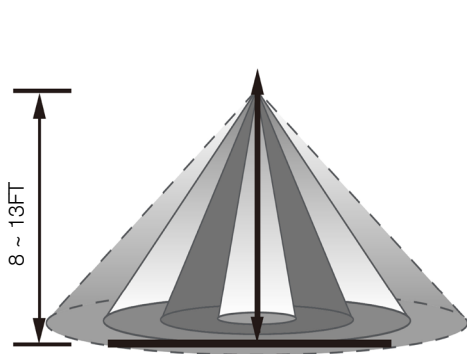
**COMMISSIONING RANGE:** 50FT  
**BLUETOOTH RANGE:** Integral antenna up to 164FT  
**DETECTION ANGLE:** 360°  
**MOUNTING HEIGHT:** Up to 13FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20

### DIMENSIONS

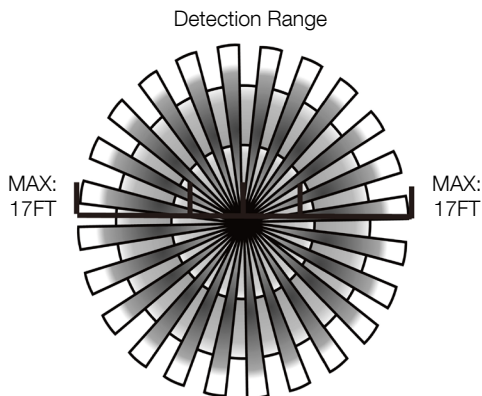


| L               | W                 |
|-----------------|-------------------|
| 3.70"<br>(94mm) | 0.73"<br>(18.5mm) |

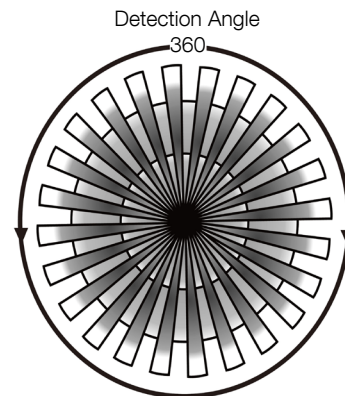
### COVERAGE PATTERNS



Height of Installation 8 ~ 13FT



Height of Installation 8FT



### FEATURE

The Remote control wireless IR configuration tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors. The tool enables device to modify via push button and stores up to four sensor parameter modes to speed configuration of multiple sensors.

|                           | PROGRAMMABLE                                                                                                                                                           | RESET                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COMPATIBLE SENSORS</b> | SENSOR-ANT-6-4T<br>SENSOR-ANT-6-4T-EM<br>SENSOR-ANT-6-4T-H<br>SENSOR-ANT-6-4T-H-EM<br>SENSOR-ANT-7<br>SENSOR-ANT-3C-B1<br>SENSOR-819-D1/D2<br>SENSOR-823<br>SENSOR-820 | SENSOR-BLE-6-4T<br>SENSOR-BLE-7<br>SENSOR-BLE-7D<br>SENSOR-BLE-819<br>SENSOR-BLE-619<br>CONTROL-BLE-5-4T<br>WALLSWITCH-BLE-101<br>WALLSWITCH-BLE-204 |

### SPECIFICATION

#### Carrying Case

RC-100 in Carrying Case

#### Commissioning Range

Up to 50FT (15mm)

#### Operating Temp

32F ~ 122F (0°C ~ 50°C)

#### Power

2 x AAA 1.5V Alkaline batteries



#### Dimension

L - 4.84" (123mm)  
W - 2.76" (70mm)  
H - .80" (20.3mm) Thickness

#### BRIGHTNESS

Set output level (in 70%, 80%, 90%, or 100%) of connected lighting during occupancy.

#### SENSITIVITY

Set the sensitivity (in 20%, 50%, 75%, or 100%) of the occupancy sensor.

#### HOLD TIME

Set the time (in 10s, 1m, 5m, 10m, 16m, 20m, 30m, or 60m) that the fixture will hold at normal output after the space is vacant.

#### DAYLIGHT SENSOR

Set the threshold of natural light (in 10, 30, or 50) as setpoint to light on automatically for the sensor. If natural light is above the selected threshold, fixture will shut off. Set daylight (in 100, 300, 500) as setpoint to light off.

#### STAND-BY DIM/TIME

**DIM:** Set the output level (in 0%, 10%, 30%, or 50%) of the fixture during vacancy. This will only take place after Hold Time has elapsed.

**TIME:** Set the time (+∞, 1m, 30m, or 50m) that the sensor will remain in stand-by mode before powering down.

#### ON/OFF

Use this to manually power a fixture on or off.

#### AUTO

Press Auto to engage/unlock a sensor.  
Press Auto, then press Display to show the sensors current setting parameters.

#### DISPLAY

Press to Display to view current setting parameters for each function. LED indicators will highlight current settings.

#### DIRECTIONAL ARROWS

Use the arrows to navigate the setting options by pressing up/down or left/right.

#### SEND

Press Send to upload displayed settings to individual sensor/fixture. The fixture will blink on and off to confirm new settings.

#### SMART DAYLIGHT SENSOR

Open and or close smart daylight sensor.  
Press up/down arrows buttons to enter setting condition, the parameters LEDs of remote control will flash to be selected.

#### TEST

Used to test sensitivity of occupancy sensing.  
Press Test, then the fixture will enter Test Mode, where Hold Time is only 2s.  
While Test Mode is active, Stand-By and Daylight sensing will be disabled.  
Press Auto to exit Test Mode.

#### RESET

Press Reset to put all parameters back to default settings.

#### MODE

Press the Mode # that you want to save.  
Use Directional Arrows to select new parameters.  
Press OK to confirm.

