

## CONSTRUCTION

Rugged extruded aluminum housing for outdoor use, conducts LED heat to optimize performance and extend lifespan. Full-cutoff, fully shielded design minimizes glare and upward light trespass. Completely sealed housing, providing protection against moisture and environmental contaminants. Features a vandal & UV-proof frosted polycarbonate lens with IK08 impact rating and a cast aluminum end-capped housing with an IK10 impact rating.



## OPTICS

Full cut-off distribution conform to dark sky requirement.

Vandal & UV-proof frosted polycarbonate lens provides smooth, uniform light distribution. CCT selectable light engine available with 3000K ~ 5000K.

## ELECTRICAL

80+ CRI LED.

Universal 120-347V AC input voltage.

WDG-10 output selectable available with 5W / 8W / 10W / 13W.

WDG-25 output selectable available with 10W / 15W / 20W / 25W.

WDG-50 output selectable available with 20W / 30W / 40W / 50W.

-40°C up to 40°C (-40°F up to 104°F) maximum operating temperature.

>50,000 hr LED lifespan based on IES LM-80 results and TM-21 calculations.

0-10V dimming driver with 10%-100% dimming range. <20% THD, 0.9 power factor.

Optional Self-Diagnostic emergency back up.

## SENSORS (OPTIONAL)

SENSOR-ANT-4E-5 Integral low-voltage PIR on/off/dimming/photosensing.

SENSOR-BLE-4E-5 Integral low-voltage PIR ALS Control bluetooth/on/off/dimming/photosensing.

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

## MOUNTING

Wall mount over electrical box or via surface conduit.

## STANDARD FINISH

Corrosion resistant Dark Bronze powder coating finish.

## CUSTOM FINISH

Corrosion resistant Black, Graphite Metallic, Gray, Silver, or custom RAL#.

## CERTIFICATION

IK08 and IK10 Rating.

Wet Location Listed.

Meets Buy America Act requirements.

IDA compliant: with 3000K color temperature selection.

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

## WARRANTY

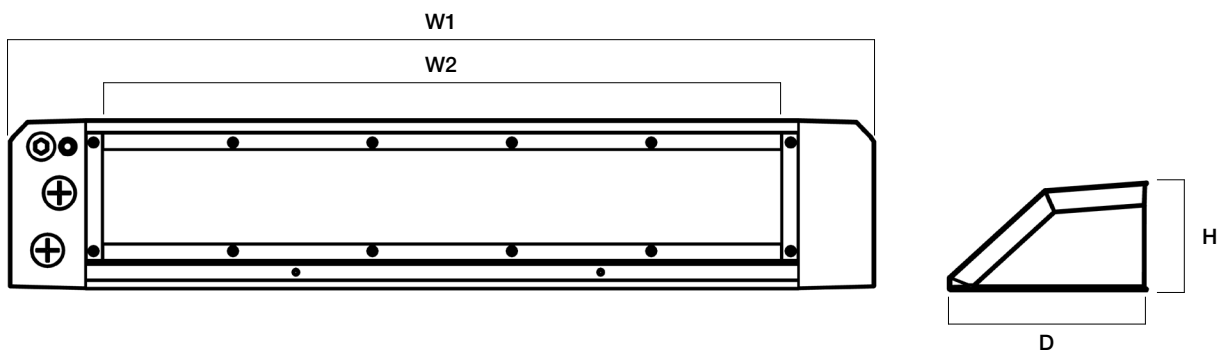
5 year warranty, see Limited Warranty for additional information.



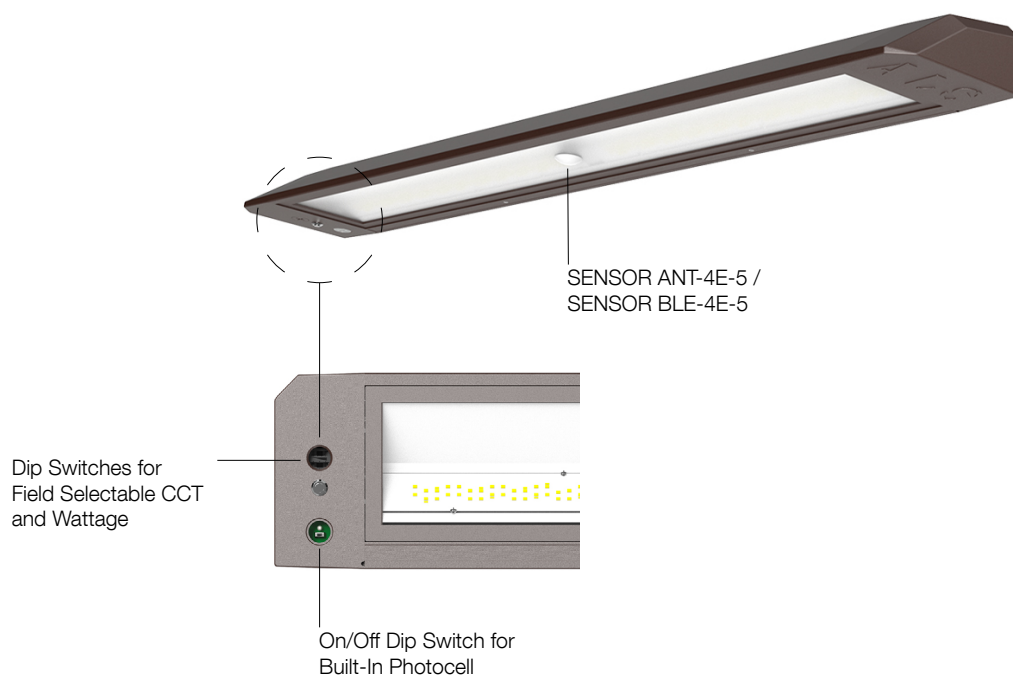
| ORDER INFORMATION      |                              |                                                                                                        |        | EXAMPLE: WDG 25 SC FC DB MD P |                   |        |       |
|------------------------|------------------------------|--------------------------------------------------------------------------------------------------------|--------|-------------------------------|-------------------|--------|-------|
| Fixture                | Series                       | Power & LM                                                                                             |        | CCT                           | Distribution      | Finish | Input |
|                        | WDG                          |                                                                                                        |        | SC                            | FC                |        |       |
| Accessories<br>Options |                              |                                                                                                        |        |                               |                   |        |       |
| A                      | SERIES                       |                                                                                                        |        |                               |                   |        |       |
|                        | WDG                          | Wedge                                                                                                  |        |                               |                   |        |       |
| B                      | POWER & LM                   |                                                                                                        |        |                               |                   |        |       |
|                        | Code                         | Power                                                                                                  |        | LM                            |                   |        |       |
|                        | 10                           | Field Selectable 5W / 8W / 10W / 13W                                                                   |        | 825lm ~ 2,145lm               |                   |        |       |
|                        | 25                           | Field Selectable 10W / 15W / 20W / 25W                                                                 |        | 1,550lm ~ 3,750lm             |                   |        |       |
|                        | 50                           | Field Selectable 20W / 30W / 40W / 50W                                                                 |        | 3,100lm ~ 7,500lm             |                   |        |       |
| C                      | CCT                          |                                                                                                        |        |                               |                   |        |       |
|                        | SC                           | Field Selectable 3000K / 4000K / 5000K                                                                 |        |                               |                   |        |       |
| D                      | DISTRIBUTION                 |                                                                                                        |        |                               |                   |        |       |
|                        | FC                           | Full Cutoff                                                                                            |        |                               |                   |        |       |
| E                      | FINISH                       |                                                                                                        |        |                               |                   |        |       |
|                        | Standard                     |                                                                                                        |        |                               |                   |        |       |
|                        | DB                           | Dark Bronze                                                                                            |        |                               |                   |        |       |
|                        | Custom Color                 |                                                                                                        |        |                               |                   |        |       |
|                        | CC                           | BK                                                                                                     | Black  | GM                            | Graphite Metallic | GR     | Gray  |
|                        |                              | SV                                                                                                     | Silver | WH                            | White             | RAL#   |       |
| F                      | INPUT                        |                                                                                                        |        |                               |                   |        |       |
|                        | MD-P                         | Universal 120-347V, 0-10V 10% Dimming with Built-In Photocell                                          |        |                               |                   |        |       |
| G                      | ACCESSORIES/OPTIONS          |                                                                                                        |        |                               |                   |        |       |
|                        | BAA                          | Assembled in America, compliant with BAA (COTS)                                                        |        |                               |                   |        |       |
|                        | SENSOR-ANT-4E-5              | Integral low-voltage PIR on/off/dimming/photosensing (10–14VDC); up to 12FT MH                         |        |                               |                   |        |       |
|                        | SENSOR-BLE-4E-5              | Integral low-voltage PIR ALS Control bluetooth/on/off/dimming/photosensing (10–14VDC); up to 12FT MH   |        |                               |                   |        |       |
|                        | REMOTE-RC100*                | Handheld Remote Commissioning Tool for SENSOR (1 per job)                                              |        |                               |                   |        |       |
|                        | CONTROL-LVFA*                | AVI-ON Bluetooth Mesh Control System (12V DC Power by Driver)                                          |        |                               |                   |        |       |
|                        | EMB-8W-B**                   | 90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output                          |        |                               |                   |        |       |
|                        | EMB-18W-B**                  | 90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output                         |        |                               |                   |        |       |
|                        | EMB-18W-C-B**                | 90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output -20°C-50°C (-4°F-122°F) |        |                               |                   |        |       |
|                        | *see page 5 for sensor spec. |                                                                                                        |        |                               |                   |        |       |
|                        | **see page 6 for EMB spec.   |                                                                                                        |        |                               |                   |        |       |

## DIMENSIONS

| Model  | W1           | W2           | H         | D            |
|--------|--------------|--------------|-----------|--------------|
| WDG-10 | 20" (508mm)  | 12" (305mm)  | 3" (77mm) | 6.5" (165mm) |
| WDG-25 | 44" (1118mm) | 36" (915mm)  | 3" (77mm) | 6.5" (165mm) |
| WDG-50 | 80" (2032mm) | 72" (1829mm) | 3" (77mm) | 6.5" (165mm) |



## CONTROLS / SENSORS



## PERFORMANCE DATA

| MODEL  | SYSTEM WATTS | 3000K  |     | 4000K  |     | 5000K  |     |
|--------|--------------|--------|-----|--------|-----|--------|-----|
|        |              | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| WDG-10 | 5W           | 825    | 165 | 825    | 165 | 825    | 165 |
|        | 8W           | 1320   | 165 | 1320   | 165 | 1320   | 165 |
|        | 10W          | 1650   | 165 | 1650   | 165 | 1650   | 165 |
|        | 13W          | 2145   | 165 | 2145   | 165 | 2145   | 165 |
| WDG-25 | 10W          | 1550   | 155 | 1800   | 180 | 1650   | 165 |
|        | 15W          | 2250   | 150 | 2500   | 166 | 2350   | 157 |
|        | 20W          | 2900   | 145 | 3100   | 155 | 3000   | 150 |
|        | 25W          | 3450   | 138 | 3750   | 150 | 3600   | 144 |
| WDG-50 | 20W          | 3100   | 155 | 3500   | 175 | 3300   | 165 |
|        | 30W          | 4500   | 150 | 4900   | 163 | 4700   | 157 |
|        | 40W          | 5800   | 145 | 6200   | 155 | 6000   | 150 |
|        | 50W          | 6900   | 138 | 7500   | 150 | 7200   | 144 |

## SENSOR SPEC

| Model                                      | Type | Mounting   | Coverage    | Input    | Function                                       | Programmable                           |
|--------------------------------------------|------|------------|-------------|----------|------------------------------------------------|----------------------------------------|
| SENSOR-ANT-4E-5<br>(see page 7 for detail) | PIR  | up to 12FT | 15FT radius | 10-14VDC | On/Off/Dimming<br>Daylight Harvesting          | REMOTE-RC100                           |
| SENSOR-BLE-4E-5<br>(see page 8 for detail) | PIR  | up to 12FT | 15FT radius | 10-14VDC | On/Off/Dimming<br>Daylight Harvesting          | ALS Control<br>Bluetooth<br>Mobile App |
| CONTROL-LVFA<br>(see page 11 for detail)   | -    | -          | -           | 12V DC   | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling | AVI-ON<br>Bluetooth<br>Mobile App      |



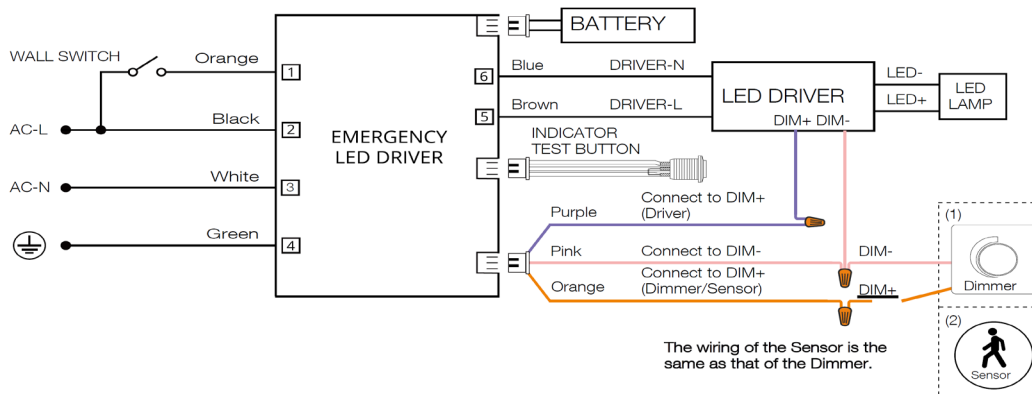
SENSOR-ANT-4E-5  
SENSOR-BLE-4E-5



CONTROL-LVFA

# EMB SPEC

| Model       | Battery Capacity | Input      | Output | Output Power | Operating Temp               | Installation                |
|-------------|------------------|------------|--------|--------------|------------------------------|-----------------------------|
| EMB-8W-B    | 90mins           | 100-347VAC | 170VDC | 8W           | 0°C ~ 50°C<br>32°F ~ 122°F   | Factory or<br>Field Install |
| EMB-18W-B   | 90mins           | 100-347VAC | 170VDC | 18W          | 0°C ~ 50°C<br>32°F ~ 122°F   | Factory or<br>Field Install |
| EMB-18W-C-B | 90mins           | 100-347VAC | 170VDC | 18W          | -20°C ~ 50°C<br>-4°F ~ 122°F | Factory or<br>Field Install |



### FEATURE

- **Installation:** Factory Install - Sensor Integral to Fixture
- **Commissioning:** through RC100 Remote Control
- **Control:** Hold time, High-Low setting, Continuous Bi-level Dimming, Manual/Auto - On/Off
- **Sensor:** Motion (Occupancy/Vacancy/Manual)
- **Factory Default:** 100% Sensitivity / Hold on Time: 5mins / Dimming Level: 30% / Dimming Time: 60mins

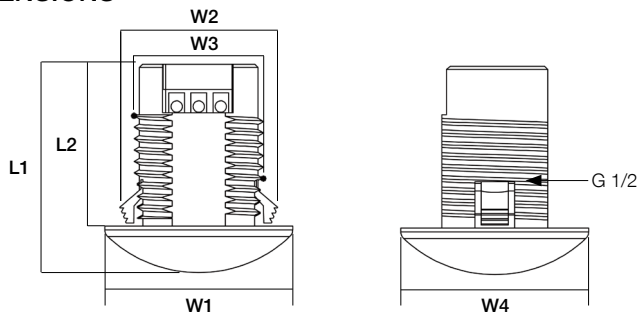


### SPECIFICATIONS

**SENSOR TYPE:** Passive Infrared Sensor (PIR)  
**INPUT VOLTAGE:** 10-14VDC  
**LIGHT-CONTROL:** 24H / 10LUX / 30LUX / 50LUX  
**CONTROL OUTPUT:** 0-10VDC, 25mA max. sinking current  
**OPERATING TEMP:** -4°F ~ +140°F (-20°C ~ +60°C)

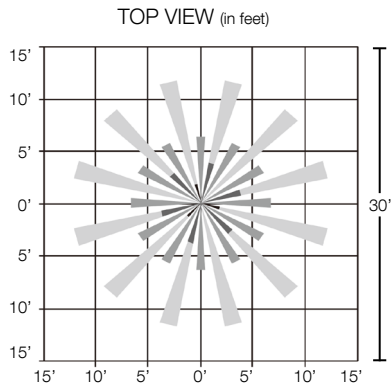
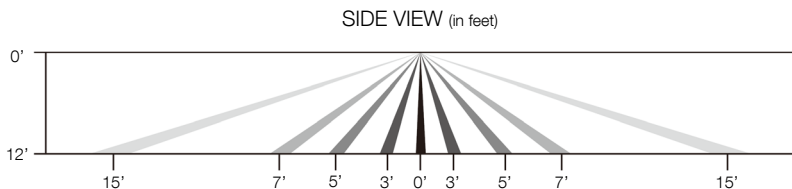
**COMMISSIONING RANGE:** 50FT from Remote Control  
**TIME SETTING:** 10sec ~ 60min (adjustable)  
**DETECTION RANGE:** 20% / 50% / 75% / 100%  
**MOUNTING HEIGHT:** Up to 12FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20

### DIMENSIONS

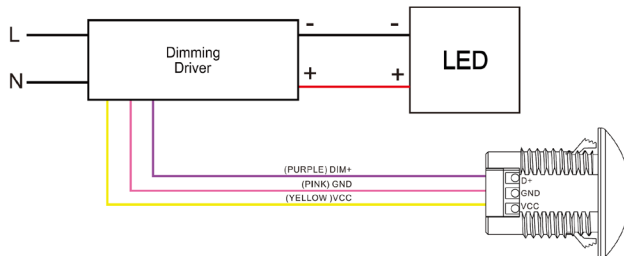


| L1              | L2              | W1             | W2             | W3              | W4              |
|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
| 1.30"<br>(33mm) | 1.02"<br>(26mm) | 1.2"<br>(30mm) | 1.2"<br>(25mm) | 0.83"<br>(21mm) | 0.67"<br>(17mm) |

### COVERAGE PATTERNS



### WIRING DIAGRAM



### ORDER CODES

**SENSOR-ANT-4E-5**

Integral low-voltage PIR on/off/dimming/photosensing (10-14VDC); up to 12FT MH

### FEATURE

- **Installation:** Factory Install - Sensor Integral to Fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Control:** Hold time, High-Low setting, Continuous Bi-level Dimming, Manual/Auto - On/Off
- **Sensor:** Motion (Occupancy/Vacancy/Manual)
- **Factory Default:** 100% Sensitivity / Hold on Time: 5mins / Dimming Level: 30% / Dimming Time: 60mins

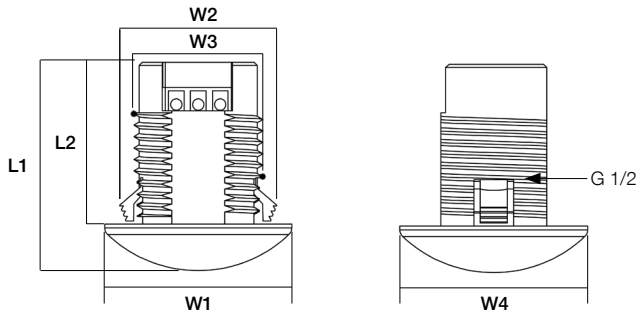


### SPECIFICATIONS

**SENSOR TYPE:** Passive Infrared Sensor (PIR)  
**INPUT VOLTAGE:** 10-14VDC  
**LIGHT-CONTROL:** 24H / 10LUX / 30LUX / 50LUX  
**CONTROL OUTPUT:** 0-10VDC, 25mA max. sinking current  
**OPERATING TEMP:** -4°F ~ +140°F (-20°C ~ +60°C)

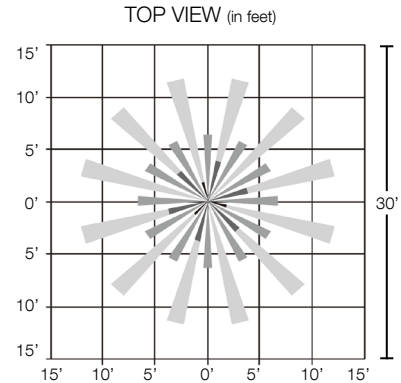
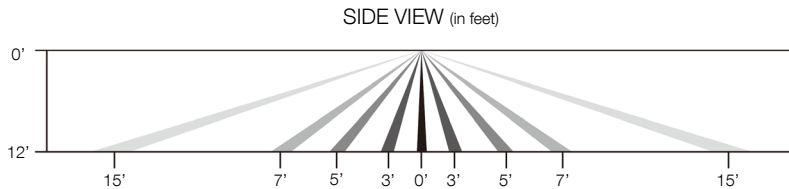
**COMMISSIONING RANGE:** 50FT  
**TIME SETTING:** 10sec ~ 60min (adjustable)  
**DETECTION RANGE:** 20% / 50% / 75% / 100%  
**MOUNTING HEIGHT:** Up to 12FT  
**WARRANTY:** 5 years  
**IP RATING:** IP20

### DIMENSIONS

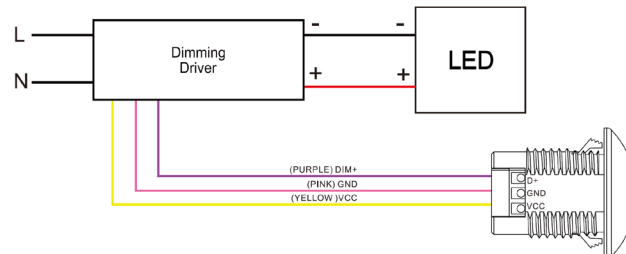


| L1              | L2              | W1             | W2             | W3              | W4              |
|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
| 1.30"<br>(33mm) | 1.02"<br>(26mm) | 1.2"<br>(30mm) | 1.2"<br>(25mm) | 0.83"<br>(21mm) | 0.67"<br>(17mm) |

### COVERAGE PATTERNS



### WIRING DIAGRAM



### ORDER CODES

**SENSOR-BLE-4E-5** Integral low-voltage PIR ALS Control bluetooth/on/off/dimming/photosensing (10-14VDC); up to 12FT MH

### 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<br>SENSOR-ANT-4E-5 | 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.

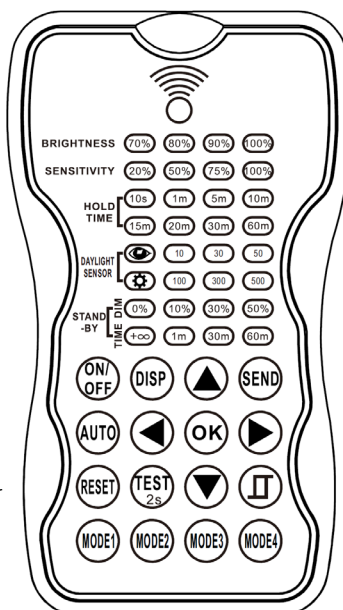
#### ON/OFF

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.

## CONTROL-LVFA SPEC

### Status LEDs & Config Button

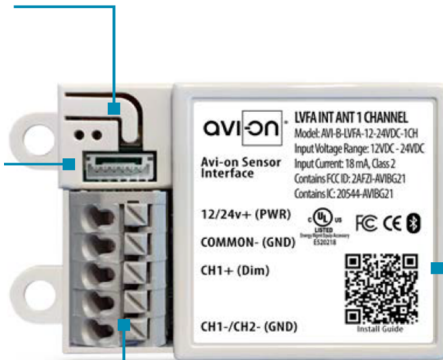
Quick and easy validation of wiring and network

### 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

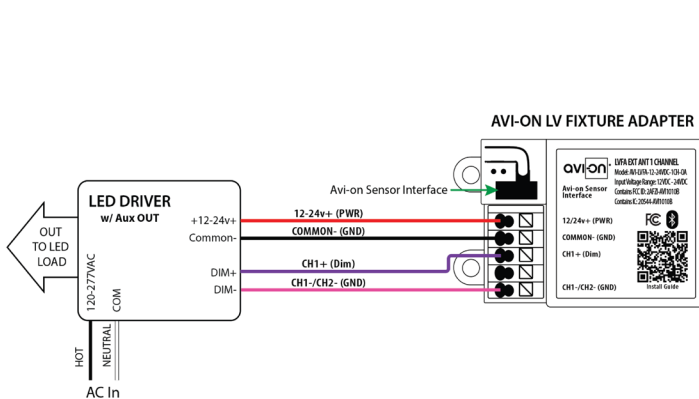
## SPECIFICATIONS

**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)

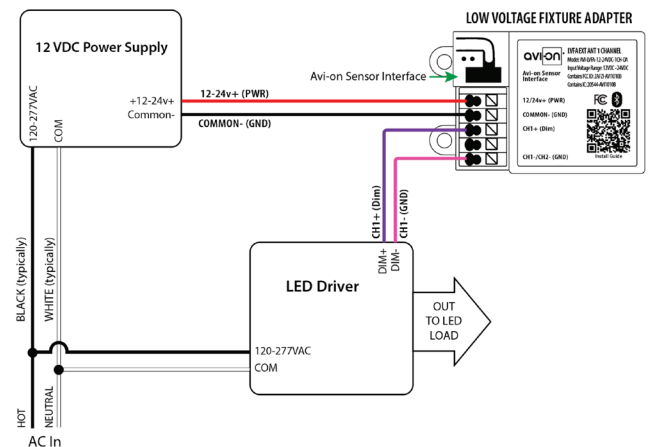
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years;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