

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-resistant frosted polycarbonate lens and a cast aluminum end-capped housing. Fixture is IK10 impact rated.

OPTICS

Full cut-off distribution conform to dark sky requirement.
Vandal & UV-resistant 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

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

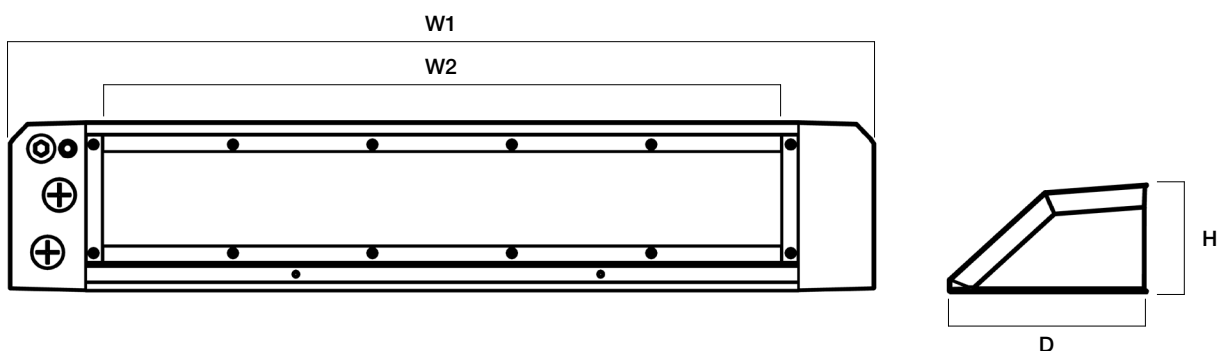
5 year warranty, see Limited Warranty for additional information.



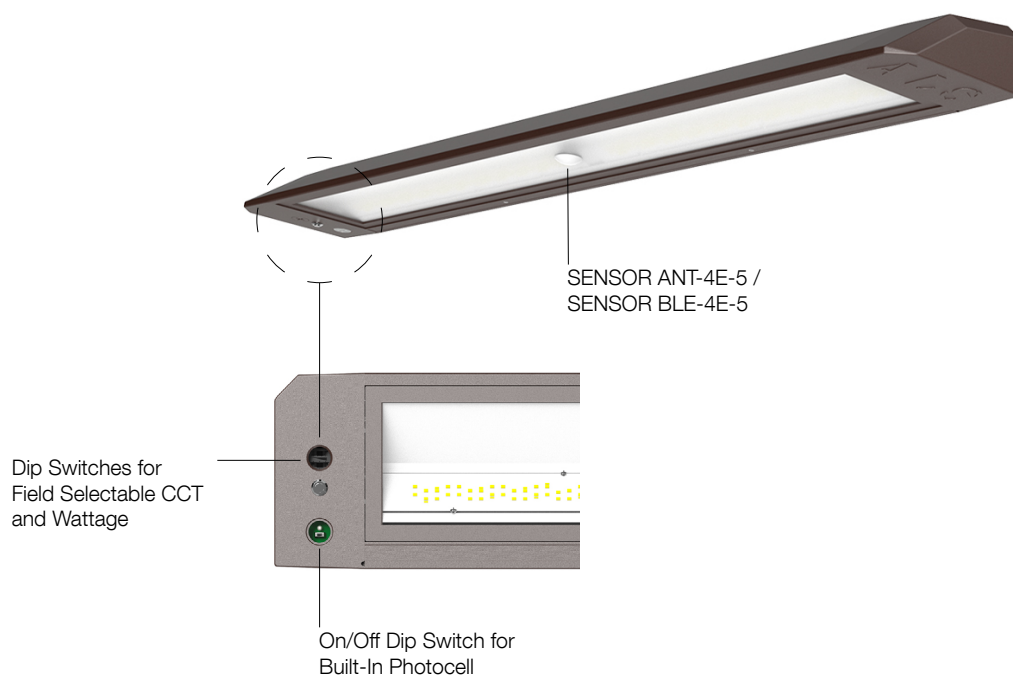
ORDER INFORMATION				EXAMPLE: WDG 25 SC FC DB MD P			
Fixture	Series	Power & LM		CCT	Distribution	Finish	Input
	WDG			SC	FC		
Accessories Options							
A	SERIES						
	WDG	Wedge					
B	POWER & LM						
	Code	Power			LM		
	10	Field Selectable 5W / 8W / 10W / 13W			825lm ~ 2,145lm		
	25	Field Selectable 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 (see page 7 for detail)	PIR	up to 12FT	15FT radius	10-14VDC	On/Off/Dimming Daylight Harvesting	REMOTE-RC100
SENSOR-BLE-4E-5 (see page 8 for detail)	PIR	up to 12FT	15FT radius	10-14VDC	On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
CONTROL-LVFA (see page 11 for detail)	-	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App



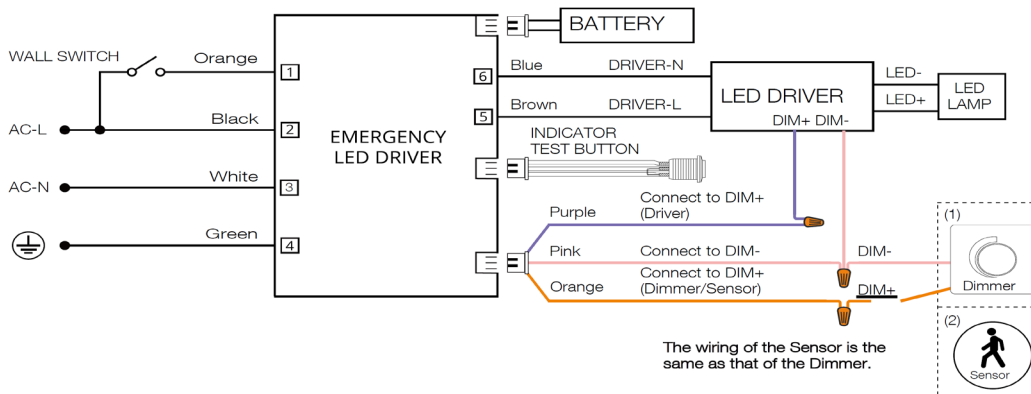
SENSOR-ANT-4E-5
SENSOR-BLE-4E-5



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 32°F ~ 122°F	Factory or Field Install
EMB-18W-B	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-18W-C-B	90mins	100-347VAC	170VDC	18W	-20°C ~ 50°C -4°F ~ 122°F	Factory or 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

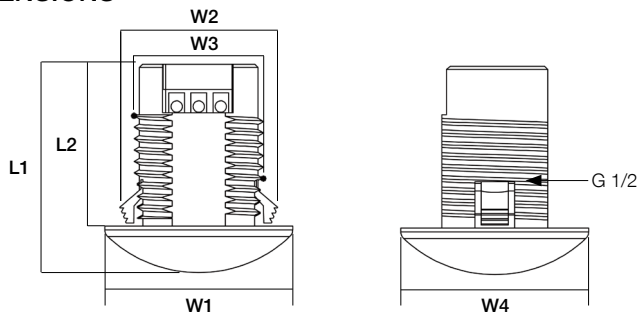


SPECIFICATIONS

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)

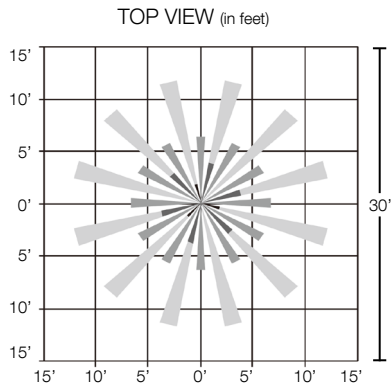
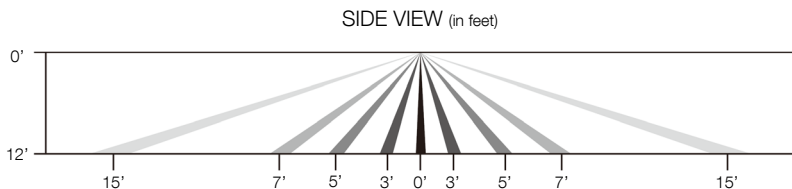
COMMISSIONING RANGE: 50FT from Remote Control
TIME SETTING: 10sec ~ 60min (adjustable)
DETECTION RANGE: 20% / 50% / 75% / 100%
MOUNTING HEIGHT: Up to 12FT
WARRANTY: 5 years
IP RATING: IP20

DIMENSIONS

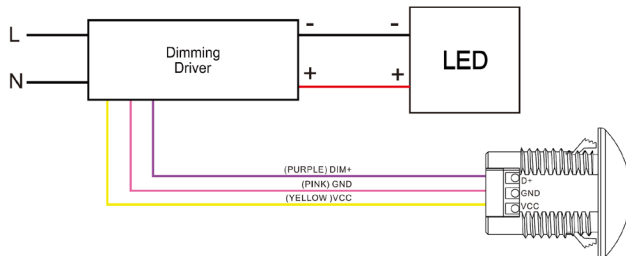


L1	L2	W1	W2	W3	W4
1.30" (33mm)	1.02" (26mm)	1.2" (30mm)	1.2" (25mm)	0.83" (21mm)	0.67" (17mm)

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

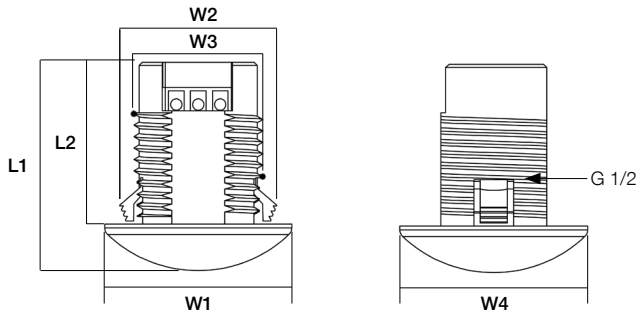


SPECIFICATIONS

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)

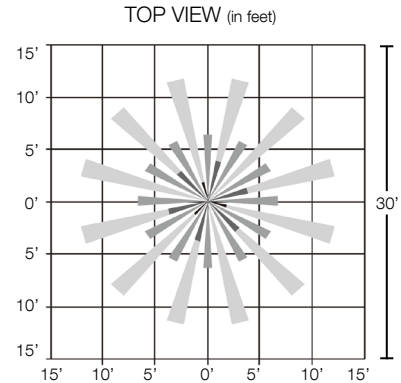
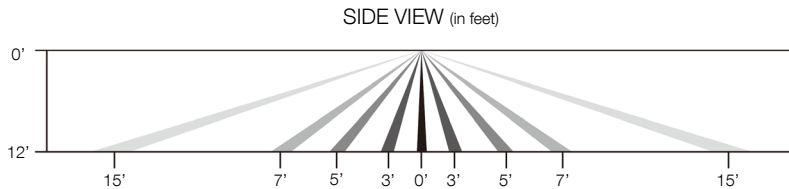
COMMISSIONING RANGE: 50FT
TIME SETTING: 10sec ~ 60min (adjustable)
DETECTION RANGE: 20% / 50% / 75% / 100%
MOUNTING HEIGHT: Up to 12FT
WARRANTY: 5 years
IP RATING: IP20

DIMENSIONS

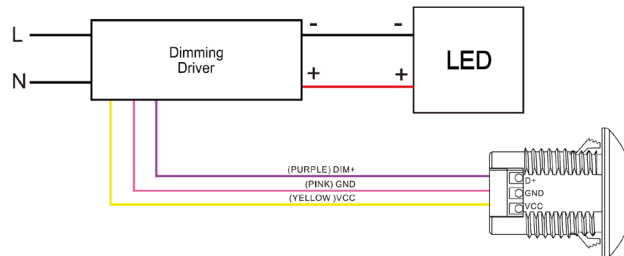


L1	L2	W1	W2	W3	W4
1.30" (33mm)	1.02" (26mm)	1.2" (30mm)	1.2" (25mm)	0.83" (21mm)	0.67" (17mm)

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
COMPATIBLE SENSORS	SENSOR-ANT-6-4T SENSOR-ANT-6-4T-EM SENSOR-ANT-6-4T-H SENSOR-ANT-6-4T-H-EM SENSOR-ANT-7 SENSOR-ANT-3C-B1 SENSOR-819-D1/D2 SENSOR-823 SENSOR-820 SENSOR-ANT-4E-5	SENSOR-BLE-6-4T SENSOR-BLE-7 SENSOR-BLE-7D SENSOR-BLE-819 SENSOR-BLE-619 CONTROL-BLE-5-4T WALLSWITCH-BLE-101 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.

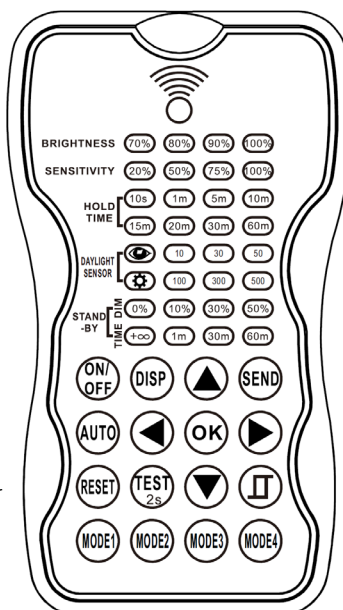
ON/OFF

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

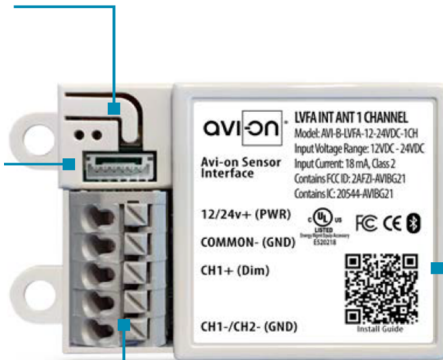
Quick and easy validation of wiring and network

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

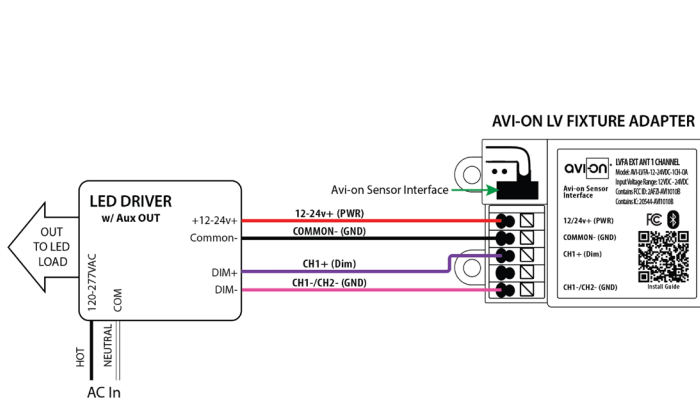
SPECIFICATIONS

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)

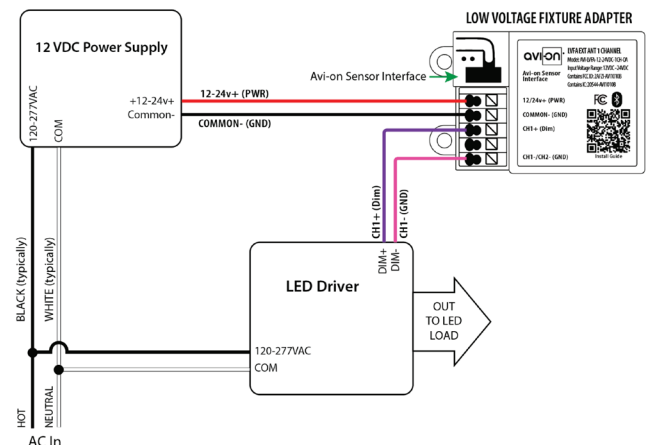
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: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