

CONSTRUCTION

Rugged die-cast aluminum housing with removable door. Low profile, 3G vibration rated to ensure the strength of construction and minimize wind load requirements. LED lens housing is completely sealed against moisture and environmental contaminants. Wet location listed.

OPTICS

Available in Type II, III, and IV distributions.
Optics are precisely designed to shape the distribution, maximizing efficiency and application spacing.

ELECTRICAL

70+ CRI LED.
-40°C up to 40°C (-40°F up to 104°F) maximum operating temperature.
Long-life 100,000 hr LED at L70 @ 25°C.
Driver operates at 120-277V input, 0-10V dimmable driver, 10-100% dimming range.
50/60Hz, <11% THD, 0.9 power factor.
Four field selectable wattage levels for each model.
CCT options from 3000K, 4000K, and 5000K.
Standard 3-PIN NEMA Photocell.
Optional 277-480V input.

SENSORS (OPTIONAL)

SENSOR-ANT-6-4T Plug-N-Play PIR on/off/dimming/photosensing.
SENSOR-BLE-6-4T Plug-N-Play PIR ALS Control Bluetooth/on/off/dimming/photosensing.
CONTROL-AVI-ON Bluetooth Mesh Controller.

MOUNTING

Compatible with mast arm 1-5/8" ~ 2-3/8" OD.

STANDARD FINISH

Corrosion resistant Silver Gray powder coating finish.

CERTIFICATION

Wet location label standard.
Meets Buy America Act requirements.
All luminaires are built to UL1598 standards and bear appropriate cULus labels.

WARRANTY

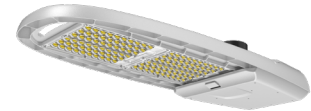
5 year warranty, see Limited Warranty for additional information.



ARD-G2-101



ARD-G2-201



ARD-G2-301



ARD-G2 SERIES ROADWAY

ORDER INFORMATION				EXAMPLE : ARD-G2 101 40 T3 SG UNVD PT			
Fixture	Series	Power & LM	CCT	Distribution	Finish	Input	Photocell
	ARD-G2						PT
A	SERIES						
	ARD-G2	Roadway					
B	POWER & LM						
	Code	Power		LM			
	101	Field Selectable 41W / 61W / 81W / 101W		7,100lm ~ 15,500lm			
	201	Field Selectable 81W / 121W / 161W / 201W		14,000lm ~ 31,000lm			
	301	Field Selectable 121W / 181W / 241W / 301W		21,000lm ~ 46,200lm			
C	CCT						
	30	3000K					
	40	4000K					
	50	5000K					
D	DISTRIBUTION						
	T2	Type II					
	T3	Type III					
	T4	Type IV					
E	FINISH						
	SG	Silver Gray					
F	INPUT						
	UNVD	120-277V, 0-10V Dimming					
	HVLD	277-480V, 0-10V Dimming					
G	PHOTOCCELL						
	PT	3-PIN NEMA Twist Lock Photocell					

ARD-G2 SERIES ROADWAY

ORDER INFORMATION (CONTINUED)

Accessories
 Options

H ACCESSORIES/OPTIONS

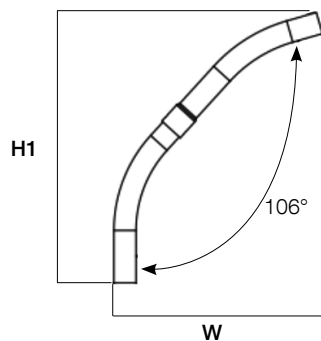
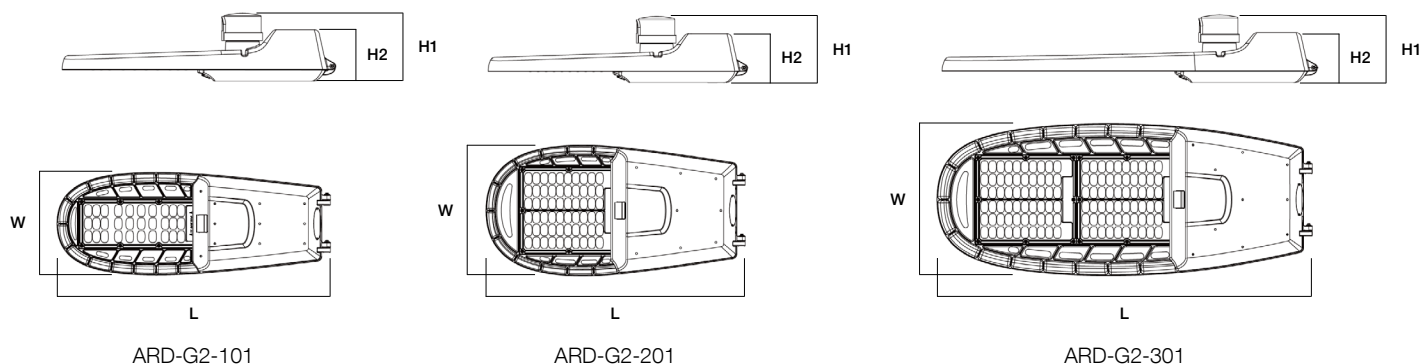
BAA	Assembled in America, compliant with BAA (COTS)
MOUNT-ARD-ARM-SG	Mounting Arm Kit
SENSOR-ANT-6-4T*	Plug-N-Play PIR on/off/dimming/photosensing up to 40FT MH
SENSOR-ANT-6-4T-H*	Plug-N-Play PIR on/off/dimming/photosensing up to 50FT MH
SENSOR-BLE-6-4T*	Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App)
SENSOR-BLE-6-4T-H*	Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) up to 50FT MH
SURGE-LSP4-U / H	10kV inline Surge Protection for Universal input / U: 120-277V, H: 480V input
CONTROL-LVFA*	AVI-ON Bluetooth Mesh Control System

*see page 6 for sensor spec

ARD-G2 SERIES ROADWAY

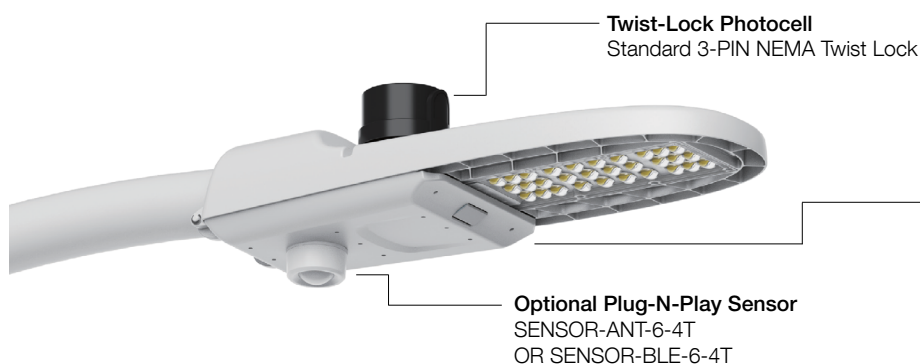
DIMENSIONS

Model	L	W	H1	H2
ARD-G2-101	21.62" (549mm)	8.11" (206mm)	5.34" (136mm)	4.06" (103mm)
ARD-G2-201	21" (534mm)	10.6" (269mm)	5.34" (136mm)	3.94" (100mm)
ARD-G2-301	30" (756mm)	12" (305mm)	5.34" (136mm)	3.94" (100mm)
MOUNT-ARM-ARD-SG	-	14.9" (378mm)	19.3" (490mm)	-



MOUNT-ARM-ARM
Mounting Arm Kit

OPTIONS



Wattage Selectable

All models have 4 wattage levels:

ARD-G2-75: 30W / 45W / 60W / 75W

ARD-G2-101: 41W / 61W / 81W / 101W

ARD-G2-160: 64W / 96W / 128W / 160W

ARD-G2-201: 81W / 121W / 161W / 201W

ARD-G2-301: 121W / 181W / 241W / 301W

ARD-G2 SERIES ROADWAY

PERFORMANCE DATA

MODEL	SYSTEM WATTS	3000K		4000K		5000K		EPA
		LUMENS	LPW	LUMENS	LPW	LUMENS	LPW	
ARD-G2-101	41W	7100	173	7400	180	7400	180	0.4261
	61W	9900	162	10200	167	10200	167	0.4261
	81W	12500	154	12800	158	12800	158	0.4261
	101W	15000	149	15500	154	15500	154	0.4261
ARD-G2-201	81W	14000	173	14700	182	14700	182	0.5485
	121W	19700	163	20500	169	20500	169	0.5485
	161W	24500	152	25600	159	25600	159	0.5485
	201W	29800	148	31000	154	31000	154	0.5485
ARD-G2-301	121W	21000	174	21800	180	21800	180	0.7845
	181W	29700	164	30400	168	30400	168	0.7845
	241W	37000	154	37800	157	37800	157	0.7845
	301W	44500	148	46200	153	46200	153	0.7845

ARD-G2 SERIES ROADWAY

SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-ANT-6-4T (see page 7 for detail)	PIR	up to 40FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T (see page 8 for detail)	PIR	up to 40FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
SENSOR-ANT-6-4T-H (see page 7 for detail)	PIR	up to 50FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T-H (see page 8 for detail)	PIR	up to 50FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
CONTROL-LVFA (see page 10 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App



SENSOR-ANT-6-4T
SENSOR-BLE-6-4T



CONTROL-LVFA

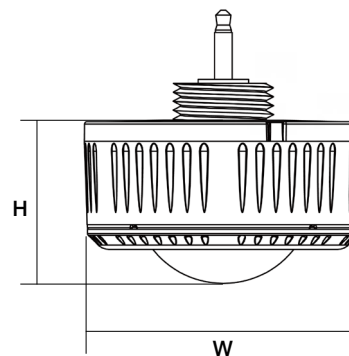
FEATURE

- **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

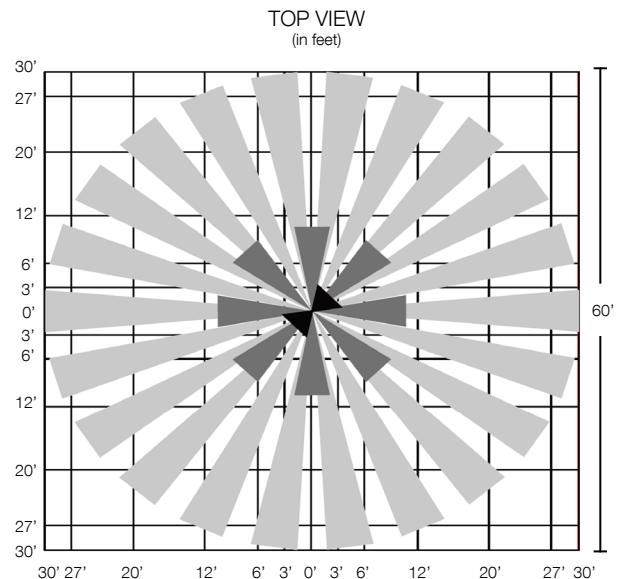
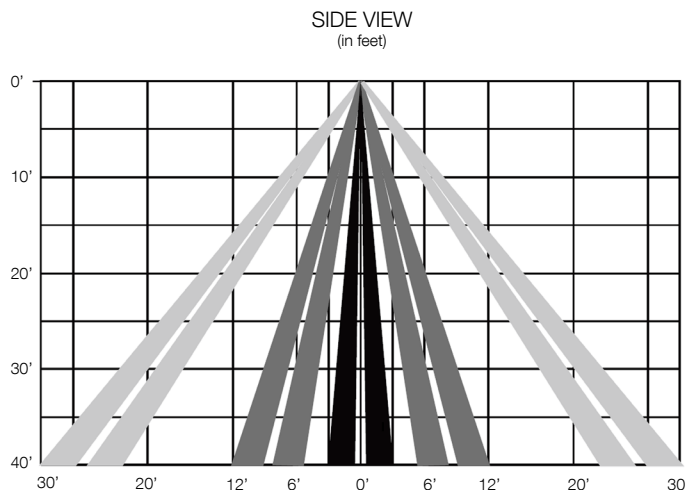
SENSOR TYPE:	Passive Infrared Sensor (PIR)
STANDARD OPTION:	SENSOR-ANT-6-4T
EMB OPTION:	SENSOR-ANT-6-4T-EM (Designed for fixtures with emergency kit. When the voltage power is off, the sensor will stop working.)
INPUT VOLTAGE:	12-24VDC, >30mA
LIGHT CONTROL:	10 ~ 50LUX
CONTROL OUTPUT:	0-10V
OPERATING 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



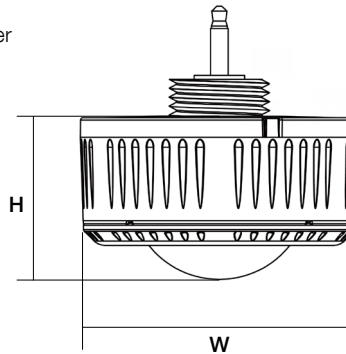
FEATURE

- **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

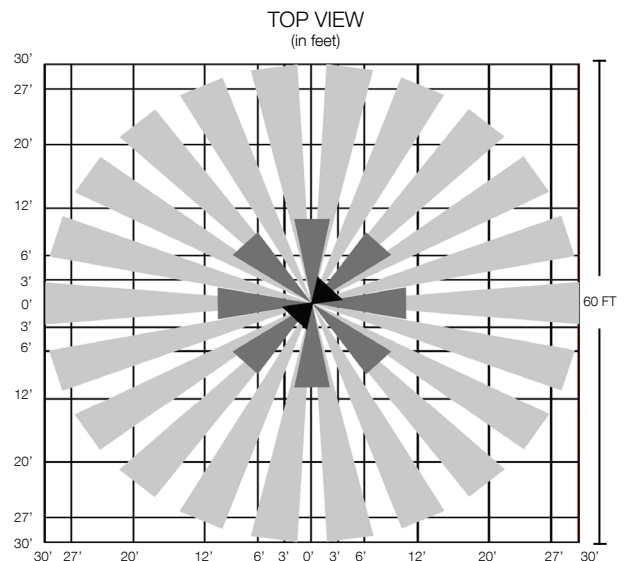
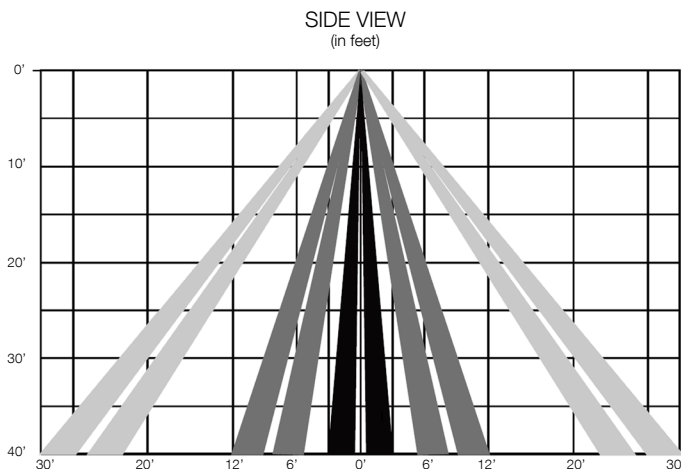
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
STANDARD OPTION:	SENSOR-BLE-6-4T
EMB OPTION:	SENSOR-BLE-6-4T-EM (Designed for fixtures with emergency kit. When the voltage power is off, the sensor will stop working.)
INPUT VOLTAGE:	12-24VDC, >50mA
CONTROL OUTPUT:	0-10V
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

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-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.

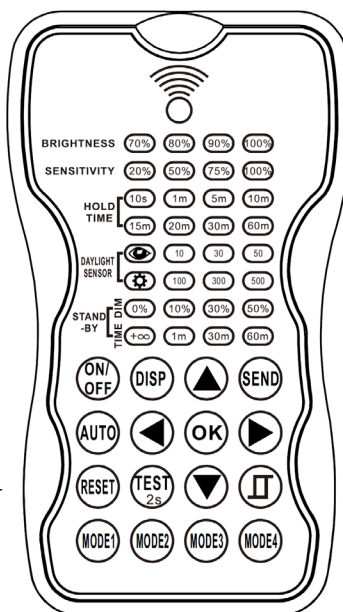
RESET

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.



ARD-G2 SERIES ROADWAY

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

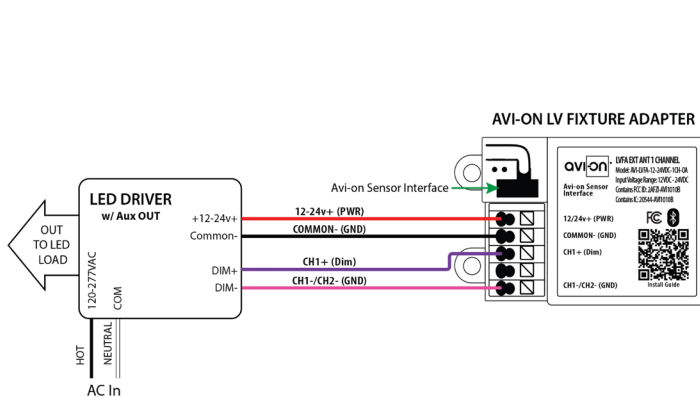
SPECIFICATIONS

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)

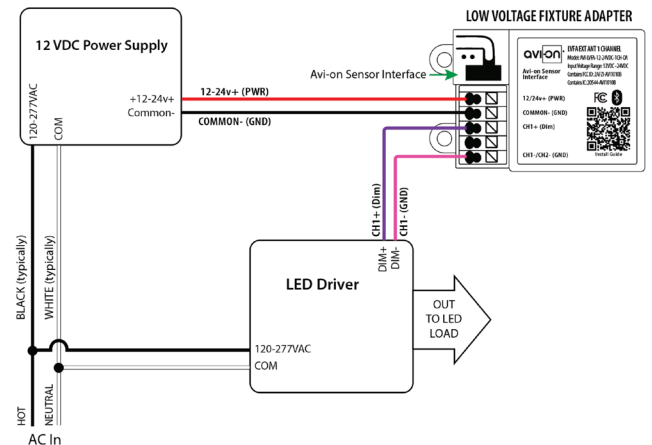
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: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