ALS
Advantage Lighting Solutions

Client:
Project:
Type:
Quantity:

LW4A SERIES SELECTABLE WRAP STRIP

CONSTRUCTION
4-Foot 22-gauge steel with semi-gloss White finish.
1/2" knockout made on end cap for sensor or surface conduit mount.

OPTICS
End-to-end wrap around frosted prismatic polycarbonate (PC) lens.

ELECTRICAL
Delivered 130lm/W efficacy LEDs offer 80+ color rendering index (CRI), L70 >50,000 hours expected life.
-10°C up to 50°C (14°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-7 Integral Mircowave 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.

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® Premium (DesignLights Consortium Qualified).

WARRANTY
5 year warranty, see Limited Warranty for additional information.

SHIPPING DATA

Product	Measurement	Weight
LW4A	50"L x 13"W x 9"H	7 lb

LW4A SERIES SELECTABLE WRAP STRIP

ORDER INFORMATION					EXAMPLE: LW 4A MC WH UD
Fixture	Series	Size	Finish	Input	
	LW	**4A-MC**	**WH**	**UD**	
Accessories Options					

A SERIES

LW	Selectable Wrap Strip

B SIZE

Code	Size	Power	CCT
4A-MC	4-Foot	30W / 35W / 40W	3500K / 4000K / 5000K

C FINISH

WH	White

D INPUT

UD	120-277V, 0-10V Dimmable

E ACCESSORIES/OPTIONS

AIA	Assembled in America, compliant with BAA (COTS)
MOUNT-HIGHBAY-CK	Gripple Hanger Kit
EMB-8W-B**	High Voltage Output Smart Emergency Battery 8W 100-347VAC Input 170VDC
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-7*	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
-CORD	18-3 300V 6 Foot Cord
-PLUG	18-3 300V 6 Foot and 3 Prong Plug

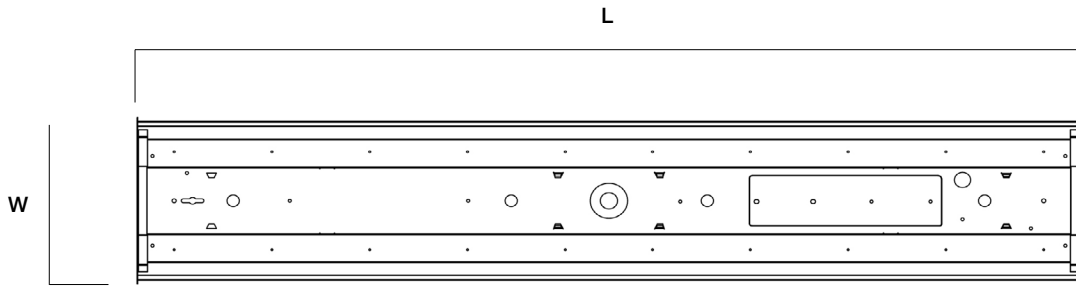*see page 5 for sensor spec

**see page 6 for emb spec

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DIMENSIONS

Model	L	W	H
LW4A-MC	47.60" (1210mm)	7.08" (180mm)	2.90" (74mm)

L

W

H

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PERFORMANCE DATA

SYSTEM WATTS	SIZE	VOLTAGE	3500K		4000K		5000K		QTY ON PALLET
			LUMEN	LPW	LUMEN	LPW	LUMEN	LPW	
30W	4-Foot	120-277V	3900	130	3930	131	3960	132	
35W	4-Foot	120-277V	4550	130	4585	131	4620	132	108
40W	4-Foot	120-277V	5200	130	5240	131	5280	132	

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LW4A SERIES SELECTABLE WRAP STRIP

SENSOR SPEC

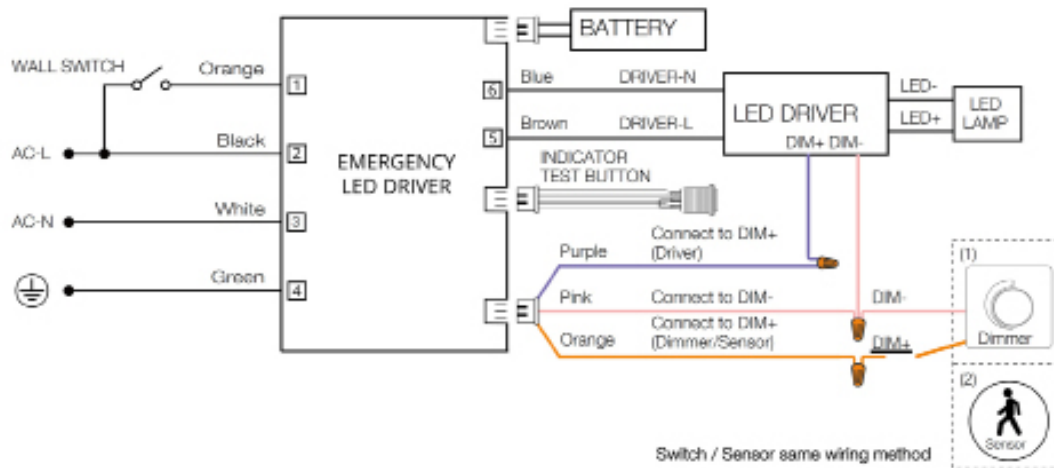| Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-819-O1	PIR	20FT	30FT radius	Universal	On/Off	-
SENSOR-819-D1	PIR	20FT	30FT radius	Universal	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-819 (see page 8 for detail)	PIR	**L1** - 20FT	30FT radius	Universal	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
SENSOR-BLE-7 (see page 9 for detail)	Microwave	up to 13FT	17FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Motion Daylight Sensing	ALS Control Bluetooth Mobile App
SENSOR-ANT-7	Microwave	up to 12FT	17FT radius	10V DC	On/Off/Dimming Motion Daylight Sensing	REMOTE-RC100
CONTROL-LVFA (see page 7 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App

SENSOR-819-XX
SENSOR-BLE-819

SENSOR-BLE-7
SENSOR-ANT-7

CONTROL-LVFA

EMB SPEC

Model	Compatible Fixture	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-8W-B	LW4A	90mins	100-347VAC	170VDC	8W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install

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CONTROL-LVFA SPEC
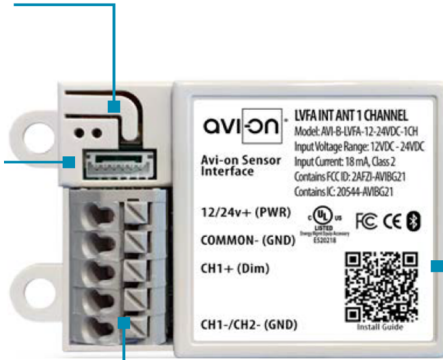
Status LEDs & Config Button
Quick and easy validation of wiring and network

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
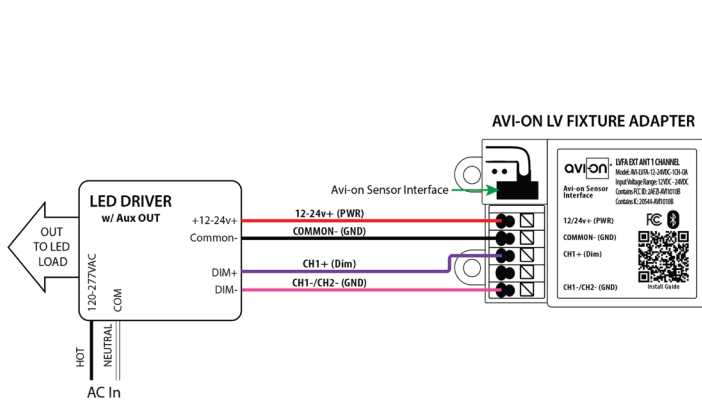Improved performance and eliminates risk of accidentally cutting a hanging wire

LVFA INT ANT 1 CHANNEL
Model: AVI-B-LVFA-12-24VDC-1CH
Input Voltage Range: 12VDC - 24VDC
Input Current: 18 mA, Class 2
Contains FCC ID: 2AFZI-AVIBG21
Contains IC: 20544-AVIBG21

avi·on
Avi-on Sensor Interface

12/24v+ (PWR)
COMMON- (GND)
CH1+ (Dim)
CH1-/CH2- (GND)

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)
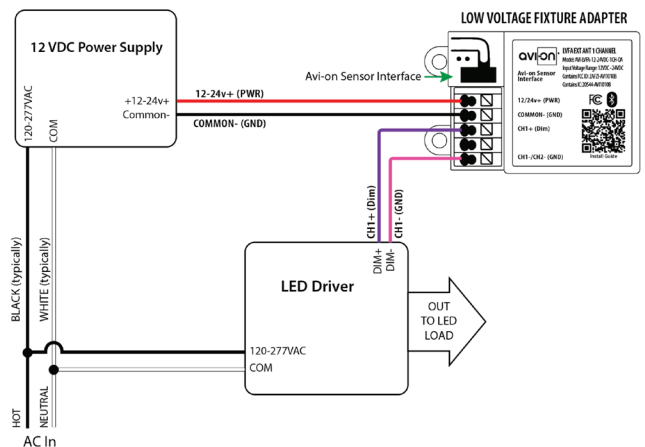**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

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

AVI-ON LV FIXTURE ADAPTER

LED DRIVER w/ Aux OUT

OUT TO LED LOAD

+12-24v+
Common-

DIM+
DIM-

12-24v+ (PWR)
COMMON- (GND)
CH1+ (Dim)
CH1-/CH2- (GND)

avi·on
Avi-on Sensor Interface
LVFA EXT ANT 1 CHANNEL
Model: AVI-EVFA-12-24VDC-1CH-GK
Input Voltage Range: 12VDC - 24VDC
Input Current: PCC ID: 2AFZI-AVI1010B
Contains IC: 20544-AVI1010B

12-24v+ (PWR)
COMMON- (GND)
CH1+ (Dim)
CH1-/CH2- (GND)

120-277VAC
COM
HOT
NEUTRAL
AC In

Fixture adapter powered by LED driver auxiliary output

LOW VOLTAGE FIXTURE ADAPTER

12 VDC Power Supply

120-277VAC
COM

+12-24v+
Common-

12-24v+ (PWR)
COMMON- (GND)

Avi-on Sensor Interface

avi·on
Avi-on Sensor Interface
ENT EXT ANT 1 CHANNEL
Model: AVI-EVFA-12-24VDC-1CH-GK
Input Voltage Range: 12VDC - 24VDC
Contains FCC ID: 2AFZI-AVI1010B
Contains IC: 20544-AVI1010B

12-24v+ (PWR)
COMMON- (GND)
CH1+ (Dim)
CH1-/CH2- (GND)

CH1+ (Dim)
CH1- (GND)

LED Driver

DIM+
DIM-

OUT TO LED LOAD

120-277VAC
COM

BLACK (typically)
WHITE (typically)
HOT
NEUTRAL
AC In

Fixture adapter connected to LED driver and using power supply

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ALS CONTROL

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
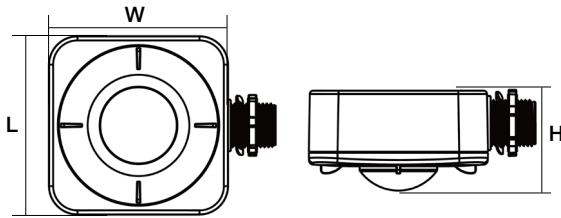- **Room and Zone Control:** Zoning and Grouping control, Scheduling

SPECIFICATIONS

SENSOR TYPE:	Passive Infrared Sensor (PIR)	**COMMISSIONING RANGE:**	50FT
WIRELESS STANDARDS:	Bluetooth SIG Mesh	**BLUETOOTH RANGE:**	Intergral antenna up to 100FT
INPUT VOLTAGE:	120/277VAC	**DETECTION ANGLE:**	Vertical 90° x Horizontal 360°
CONTROL OUTPUT:	0-10V	**MOUNTING HEIGHT:**	8 - 40FT
OPERATING TEMP:	-40°F ~ +167°F (-40°C ~ +75°C)	**WARRANTY:**	5 years
		IP RATING:	IP20 Damp

DIMENSIONS

L	W	H
3.19" (81mm)	4.02" (102mm)	1.70" (43.3mm)

COVERAGE PATTERNS

SIDE VIEW (in feet)

L1 Lens

L2 Lens

TOP VIEW (in feet)

ALS CONTROL

SENSOR-BLE-7 BLUETOOTH MICROWAVE SENSOR

Client:
Project:
Type:
Quantity:
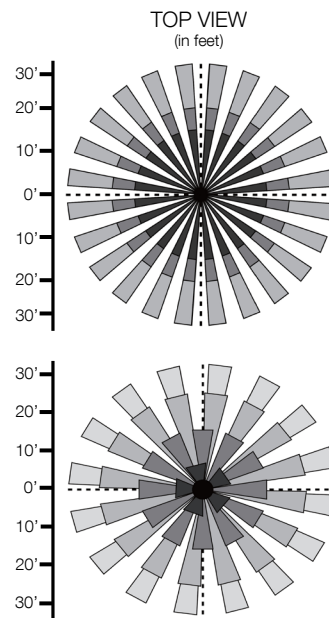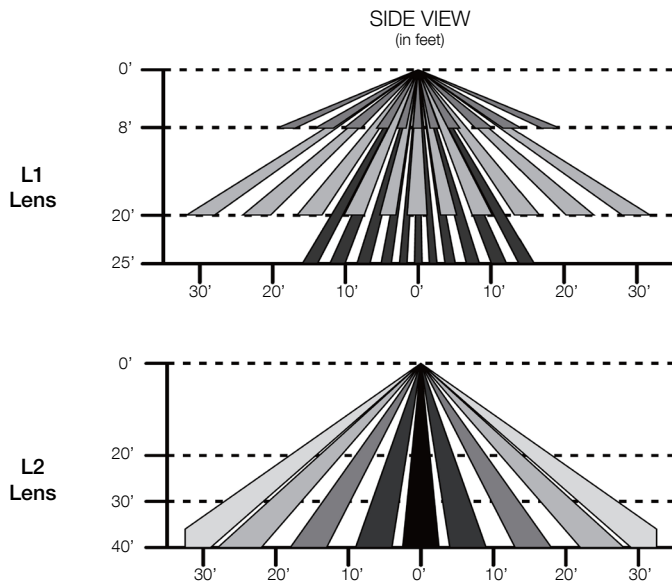
FEATURE

- **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)
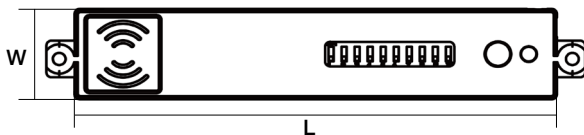- **Room and Zone Control:** Zoning and Grouping control, Scheduling

SPECIFICATIONS

SENSOR TYPE:	Microwave	**COMMISSIONING RANGE:**	50FT
WIRELESS STANDARDS:	Bluetooth SIG Mesh	**BLUETOOTH RANGE:**	Integral antenna up to 164FT
INPUT VOLTAGE:	10-14VDC, >50mA	**DETECTION ANGLE:**	360°
CONTROL OUTPUT:	0-10V	**MOUNTING HEIGHT:**	Up to 13FT
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)	**WARRANTY:**	5 years
		IP RATING:	IP20

DIMENSIONS

L	W
3.70" (94mm)	0.73" (18.5mm)

COVERAGE PATTERNS

Height of Installation 8 ~13FT

Detection Range
MAX: 17FT   MAX: 17FT
Height of Installation 8FT

Detection Angle
360