ALS®

Advantage Lighting Solutions

WN SERIES SEMI-CUTOFF WALL PACK

Client:
Project:
Type:
Quantity:

CONSTRUCTION

Cast aluminum frame holds lens and seals to housing gasket with two stainless steel screws.Door assembly hinges to side, cast aluminum housing with three 1/2" conduit entries (on top and sides), for surface conduit.
Suitable for applications requiring 3G testing prescribed by ANSI C136.31.

OPTICS

Polycarbonate lens softens LED image and provides uniform distribution and glare control.

ELECTRICAL

70+ CRI Lumileds LED.
-40°C up to 45°C (-40°F up to 113°F) maximum operating temperature.
150,000hr LED at L70 @ 25°C, 120,000hr LED LED at L70 @ 40°C.
Driver operates at 120-277V input, 50/60Hz, <20% THD, 0.9 power factor, 0–10V dimming.
Optional button photocontrol.
Optional 10kV surge protector. Optional 347V / 480V Driver.
Optional Self-Diagnostic emergency back up.
Optional Self-Diagnostic Sub-Zero emergency back up.

SENSORS (OPTIONAL)

SENSOR-BLE-7D Integral Mircowave Bluetooth Wireless Motion/on/off/dimming/photosensing.
SENSOR-BLE-7 Integral Microwave Bluetooth Wireless Motion/on/off/dimming/photosensing.
SENSOR-ANT-7 Integral Mircowave Motion/on/off/dimming/photosensing.
SENSOR-823 Integral PIR on/off/dimming/photosensing.
SENSOR-820 Integral PIR on/off/dimming/photosensing.
CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.
SENSOR-PH-PB-U Integral Button Style Photocell.

MOUNTING

Wall mount over electrical box or via surface conduit.

STANDARD FINISH

Corrosion resistant Dark Bronze powder coating finish.

CERTIFICATION

Wet Location listed.
Title 24 compliant; see local ordinance for qualification information.
For Emergency application, equipment with UL924 certified battery packs.
For Emergency application, equiped with UL924 certified battery packs.
DLC® Premium (DesignLights Consortium Qualified) listed.

WARRANTY

5 year warranty, see Limited Warranty for additional information.

SHIPPING DATA

Product	Measurement	Weight
WN-27	13"L x 8"W x 7"H	6 lb
WN-45	13"L x 8"W x 7"H	6 lb
WN-60	13"L x 8"W x 7"H	6 lb
WN-90	13"L x 8"W x 7"H	7 lb
WN-115	13"L x 8"W x 7"H	7 lb

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WN SERIES SEMI-CUTOFF WALL PACK

ORDER INFORMATION					EXAMPLE: WN 80 50 DB UNVD
Fixture	Series	Power & LM	CCT	Finish	Input
	WN				

Accessories
Options

A	SERIES

WN	Semi-Cutoff Wall Pack

B	POWER & LM

CODE	POWER	LM
27	27W	3,450lm
45	45W	5,600lm
60	60W	7,800lm
90	90W	11,000lm
115	115W	14,500lm

C	CCT

50	5000K

D	FINISH

DB	Dark Bronze

E	INPUT

UNVD	120-277V, 0-10V Dimming
HVLD	347-480V, 0-10V Dimming

G	ACCESSORIES/OPTIONS

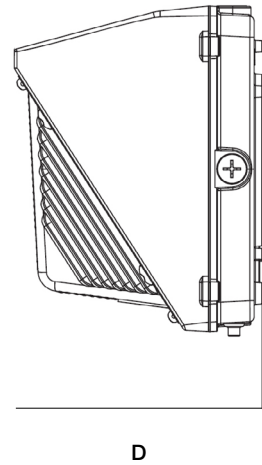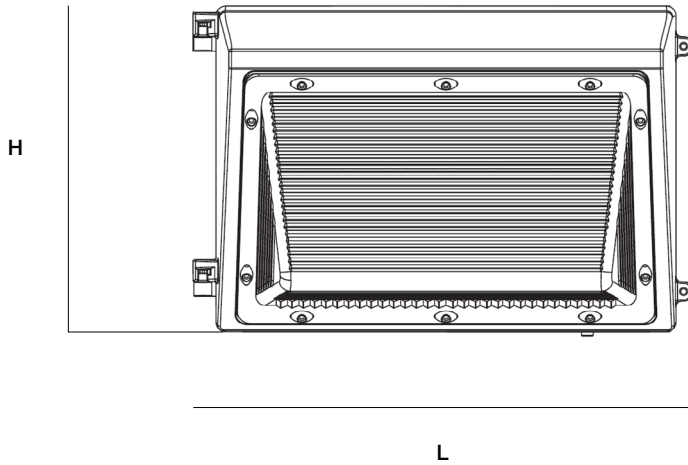| EMB-8W-B**	8W Emergency Battery 170VDC Forward Voltage
EMB-18W-B**	18W Integral Self-Diagnostic Emergency Battery, Operating Temp: 0°C ~ 50°C
EMB-18W-C-B**	18W Integral Self-Diagnostic Cold Weather Emergency Battery, Operating Temp -20°C ~ 50°C
SENSOR-PH-PB-U*	Button Style Photocell
SENSOR-820-M8-L3*	Integral PIR on/off/dimming/photosensing
SENSOR-823-L3 / L4*	Integral PIR on/off/dimming/photosensing / **L3:** up to 40FT, **L4:** up to 8FT
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-823, 820 Series
SENSOR-BLE-7D*	Integral Bluetooth Microwave Sensor (ALS Control Mobile App)
SENSOR-BLE-7*	Integral Microwave Bluetooth Wireless Bi-Level Motion Sensor (ALS Control Mobile App)
SENSOR-ANT-7*	Integral Microwave Bi-Level Motion Sensor
SURGE-LSP4-U	10kV inline Surge Protection for Universal input / **U:** 120-277V
CONTROL-LVFA*	AVI-ON Bluetooth Mesh Control System

*see page 5 for sensor spec

**see page 6 for emb spec

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DIMENSIONS

Model	H	L	D
WN-27 / 45 / 60 90 / 115	7.70" (196mm)	11.95" (303mm)	6.23" (158mm)

H

L

D

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PERFORMANCE DATA / DLC CODE

SYSTEM WATTS	CCT	VOLTAGE	LUMEN	LPW	QTY ON PALLET	PART NUMBER	DLC PRODUCT ID / ORDER CODE	DLC CLASS
WN-27	5000K	120-277V	3450	128	96	WN-2750-DBUNVD	PENDING	DLC 5.1 Premium
WN-45	5000K	120-277V	5600	124	96	WN-4550-DBUNVD	PENDING	DLC 5.1 Premium
WN-60	5000K	120-277V	7800	126	96	WN-6050-DBUNVD	PENDING	DLC 5.1 Premium
WN-90	5000K	120-277V	11000	122	96	WN-9050-DBUNVD	PENDING	DLC 5.1 Premium
WN-115	5000K	120-277V	14500	126	96	WN-11550-DBUNVD	PENDING	DLC 5.1 Premium

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SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-823	PIR	**L3** - 40FT **L4** - 8FT	30FT radius 24FT radius	Universal	On/Off/Dimming	REMOTE-RC100
SENSOR-820	PIR	up to 40FT	30FT radius	100 ~ 480V	On/Off/Dimming Daylight Harvesting	REMOTE-RC100
SENSOR-PH-PB-U	-	-	-	Universal	Dusk-to-Dawn Control	-
SENSOR-BLE-7D (see page 8 for detail)	Microwave	up to 12FT	17FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Motion	ALS Control Bluetooth Mobile App
CONTROL-LVFA (see page 7 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON 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	ALS Control Bluetooth Mobile App

SENSOR-823   SENSOR-820   SENSOR-PH-PB-U   SENSOR-BLE-7D   CONTROL-AVI-LVFA   SENSOR-BLE-7
SENSOR-ANT-7
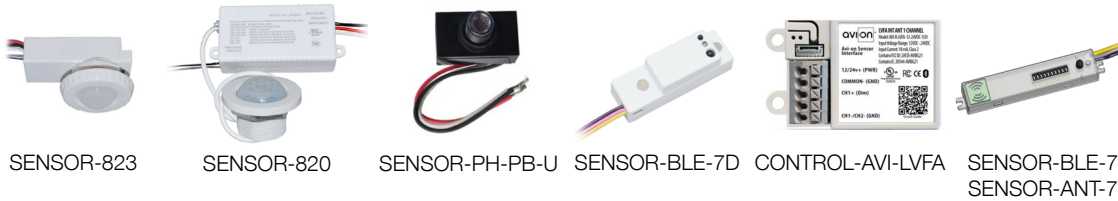
EMB SPEC

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

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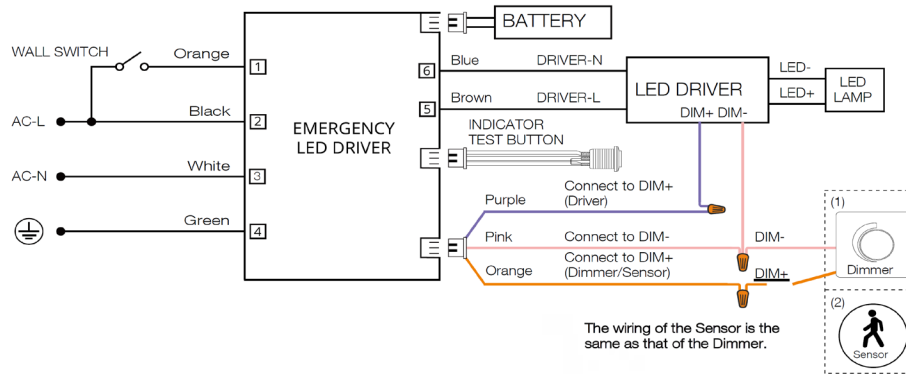
WN SERIES SEMI-CUTOFF WALL PACK

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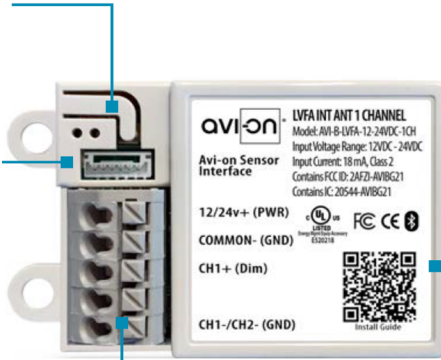
Status LEDs & Config Button
Quick and easy validation of wiring and network

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
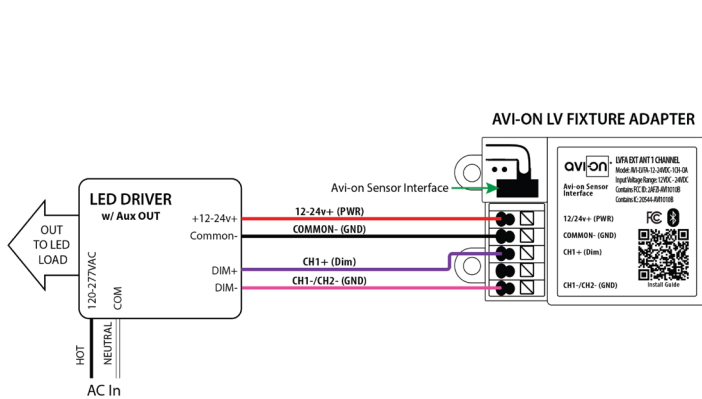
Fixture adapter powered by LED driver auxiliary output
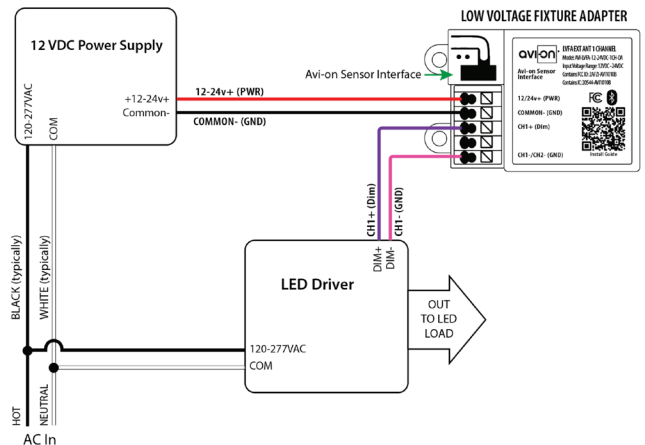
Fixture adapter connected to LED driver and using power supply

ALS CONTROL

SENSOR-BLE-7D 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)
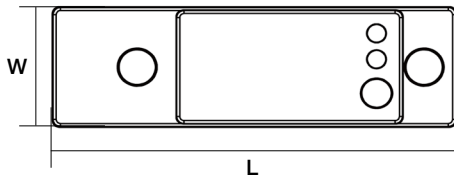- **Room and Zone Control:** Zoning and Grouping control, Scheduling

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 12FT
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)	**WARRANTY:**	5 years
		IP RATING:	IP20

DIMENSIONS

L	W
2.6"
(65.5mm)	0.8"
(20.5mm)

COVERAGE PATTERNS

Height of Installation 8 ~12FT

Detection Range

MAX: 17FT   MAX: 17FT

Height of Installation 8FT

Detection Angle
360

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ALS CONTROL

SENSOR-BLE-7 BLUETOOTH MICROWAVE SENSOR

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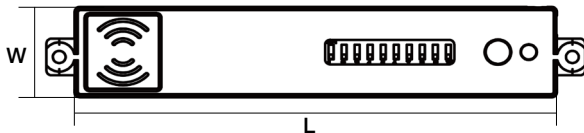- **Room and Zone Control:** Zoning and Grouping control, Scheduling

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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

Detection Range

Detection Angle
360

MAX: 17FT

MAX: 17FT

Height of Installation 8 ~13FT

Height of Installation 8FT

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