ALS®
Advantage Lighting Solutions

Client:
Project:
Type:
Quantity:

WRA SERIES HALF MOON WALL PACK

CONSTRUCTION

Die-cast aluminum housing provides durable, high-quality construction and is designed for effective heat dissipation to support reliable LED operation and long service life. Fixture is IP65 rated for wet-location outdoor applications.

OPTICS

UV-stabilized polycarbonate lens provides durable optical protection. Field-selectable optical distribution with Type II, Type III, or Type IV patterns (T2/T3/T4) adjustable. CCT and output selectable between 3000K ~ 5000K via DIP switch configuration.

ELECTRICAL

80+ 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, <15% THD, 0.9 power factor >90%.
0–10V dimming driver, button photocontrol standard included.
Three adjustable Wattage levels available for each model.
Optional 10kV surge protector.
Optional Self-Diagnostic emergency back up.

SENSORS (OPTIONAL)

SENSOR-BLE-6-4T Plug-N-Play PIR ALS Control Bluetooth/on/off/dimming/photosensing.
SENSOR-ANT-6-4T Plug-N-Play PIR on/off/dimming/photosensing.
CONTROL-BLE-SK104-PH I Integral Bluetooth Fixture Controller w/ Button Photocell (ALS Control Mobile App)
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

Black, Graphite Metallic, Gray, Silver, and White, or custom RAL#

CERTIFICATION

IP65 Wet Location listed.
Meets Buy America Act requirements.
All luminaires are built to UL1598 standards and bear appropriate cULus labels.
For Emergency application, equipped with UL924 certified battery packs.
DLC® Premium (DesignLights Consortium Qualified) listed.

WARRANTY

5 year warranty, see Limited Warranty for additional information.

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WRA SERIES HALF MOON WALL PACK

ORDER INFORMATION							EXAMPLE: WRA 80 SC DB UNLV P
Fixture	Series	Power & LM	CCT	Distribution	Finish	Input	Sensor
	WRA		SC	FA			P

Accessories
Options

A SERIES

WRA	Half Moon Wall Pack

B POWER & LM

Code	Power	LM
40	Field Selectable 24W / 32W / 40W	3,825lm ~ 6,587lm
80	Field Selectable 48W / 64W / 80W	6,480lm ~ 13,052lm

C CCT

SC	Field Selectable: 3000K / 4000K / 5000K

D DISTRIBUTION

FA	Field Selectable Distribution: Type II / Type III / Type IV

E FINISH

Standard
DB	Dark Bronze						

Custom Color
CC	BK	Black	GM	Graphite Metallic	GR	Gray
	SV	Silver	WH	White	RAL#	

F INPUT

UNVD-P	120-277V, 0-10V Dimming, with Photocell

G ACCESSORIES/OPTIONS

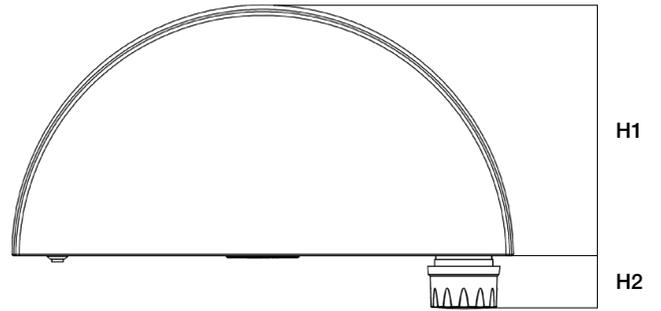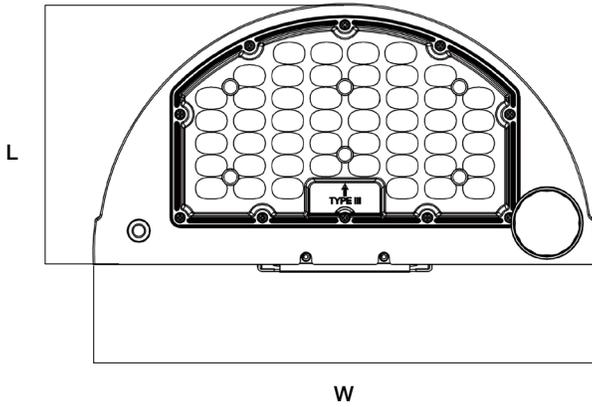| BAA	Assembled in America, compliant with BAA (COTS)
SENSOR-ANT-6-4T*	Plug-N-Play PIR on/off/dimming/photosensing up to **40FT MH**
SENSOR-ANT-6-4T-EM*	Plug-N-Play PIR on/off/dimming/photosensing for **EMB application** up to **40FT MH**
SENSOR-ANT-6-4T-H*	Plug-N-Play PIR on/off/dimming/photosensing 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**
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-ANT (1 per job)
SENSOR-BLE-6-4T*	Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App)
SENSOR-BLE-6-4T-EM*	Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application
SENSOR-BLE-6-4T-H*	Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) up to **50FT MH**
SENSOR-BLE-6-4T-H-EM*	Plug-N-Play Bluetooth on/off/dimming/Daylight Harvesting Sensor (ALS Control Mobile App) for EMB application up to **50FT MH**
SURGE-LSP4-U / H	10kV inline Surge Protection for Universal input / **U:** 120-277V, **H:** 480V input
CONTROL-BLE-SK104-PH*	Integral Bluetooth Fixture Controller w/Button Photocell (ALS Control Mobile App)
CONTROL-LVFA*	AVI-ON Bluetooth Mesh Control System
EMB-8W-B**	90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output

*see page 5 for sensor spec

**see page 6 for emb spec

![ALS - Advantage Lighting Solutions logo]

WRA SERIES HALF MOON WALL PACK

DIMENSIONS

Model	L	W	H1	H2
WRA-40 / -80	6.89" (175mm)	13" (330mm)	6.49" (165mm)	1.37" (35mm)

Bottom View

Front View

CCT / WATTAGE SELECTABLE

DIP Switch for Photocell and Wattage

OFF / ON

48W 64W 80W

DIP Switch for CCT and Distribution

T2 T3 T4

3K 4K 5K

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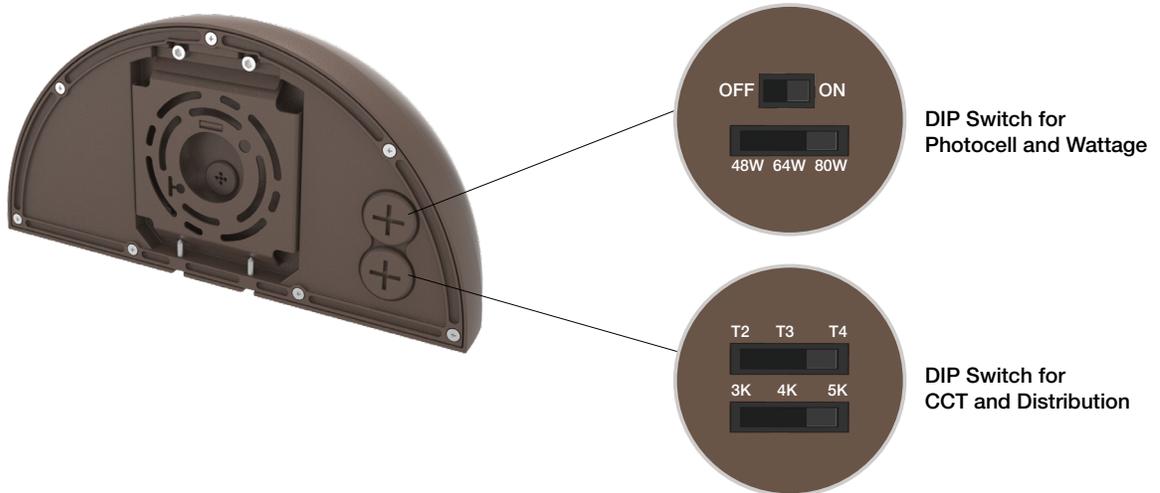
PERFORMANCE DATA / DLC CODE

MODEL	SYSTEM WATTS	LUMEN	LPW	DLC PRODUCT ID / ORDER CODE	DLC CLASS
WRA-40	24W	3960	165	pending	DLC 5.1 Premium
	32W	5280			
	40W	6600			
WRA-80	48W	7920	165	pending	DLC 5.1 Premium
	64W	10560			
	80W	13200			

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SENSOR SPEC

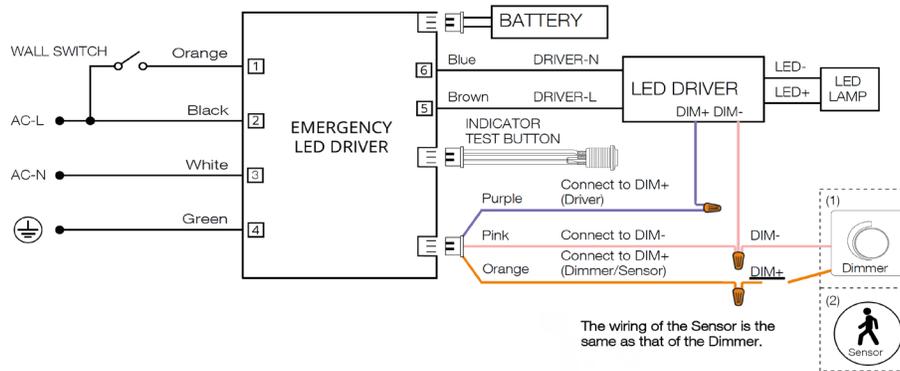| Model	Type	Mounting	Coverage	Input	Function	Programmable
CONTROL-LVFA (see page 7 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
CONTROL-BLE-SK104-PH (see page 8 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling CCT Tuning	AVI-ON Bluetooth Mobile App
SENSOR-ANT-6-4T SENSOR-ANT-6-4T-EM (see page 9 for detail)	PIR	up to 40FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T SENSOR-BLE-6-4T-EM (see page 11 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 SENSOR-ANT-6-4T-H-EM (see page 9 for detail)	PIR	up to 50FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T-H SENSOR-BLE-6-4T-H-EM (see page 11 for detail)	PIR	up to 50FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App

CONTROL-LVFA

CONTROL-BLE-SK104-PH

SENSOR-ANT-6-4T
SENSOR-ANT-6-4T-EM
SENSOR-BLE-6-4T
SENSOR-BLE-6-4T-EM
SENSOR-BLE-6-4T-H
SENSOR-BLE-6-4T-EM-H

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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

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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
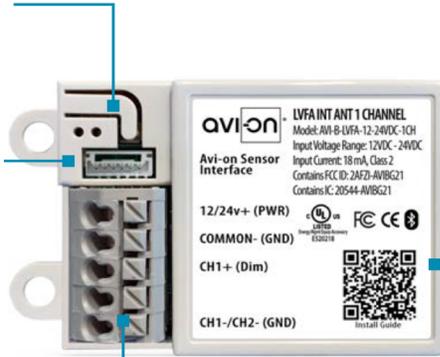
Internal Antenna
Improved performance and eliminates risk of accidentally cutting a hanging wire

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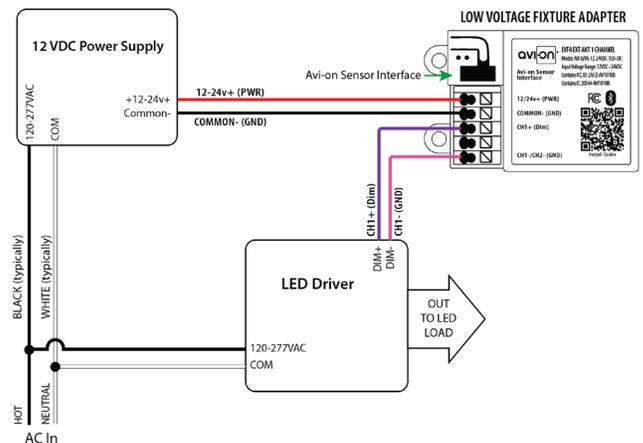**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

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
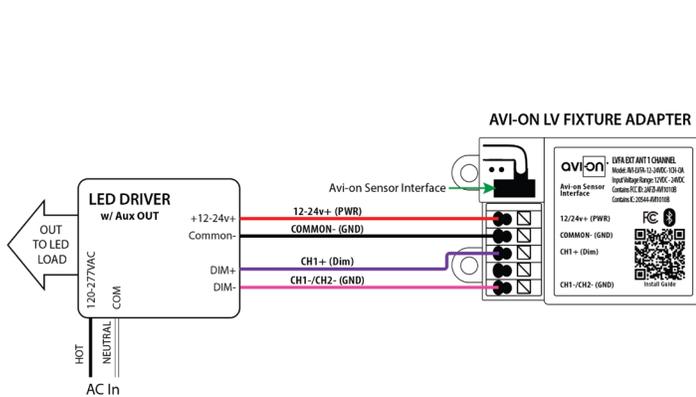
Fixture adapter powered by LED driver auxiliary output

Fixture adapter connected to LED driver and using power supply

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ALS CONTROL

CONTROL-BLE-SK104-PH BLUETOOTH CONTROLER

Client:
Project:
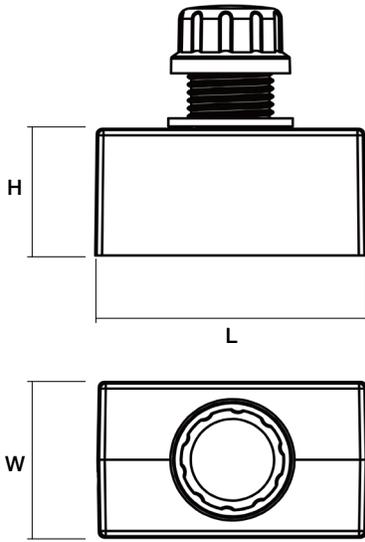Type:
Quantity:

FEATURE

- **Installation:** Factory / Jobsite install through 1/2" knockout hole, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** High-End Trim, Zoning, Continuous Bi-level Dimming
- **CCT Tuning:** CCT Tuning feature for Dual/Multi-CCT LED board fixture only
- **Sensor:** Photocell
- **Zone Control:** Zoning and Grouping control, Scheduling
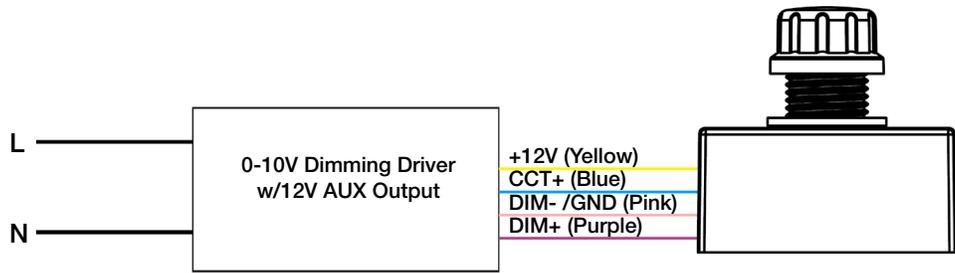

SPECIFICATIONS

SENSOR TYPE:	Photocell
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-14VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	100FT
DETECTION ANGLE:	360°
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS

L	H	W
1.14" (29mm)	0.94" (24mm)	1.97" (50mm)

WIRING DIAGRAM

0-10V Dimming Driver w/12V AUX Output

+12V (Yellow)
CCT+ (Blue)
DIM- /GND (Pink)
DIM+ (Purple)

Client:
Project:
Type:
Quantity:

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

SIDE VIEW
(in feet)

TOP VIEW
(in feet)

60'
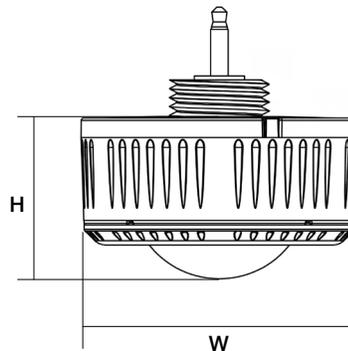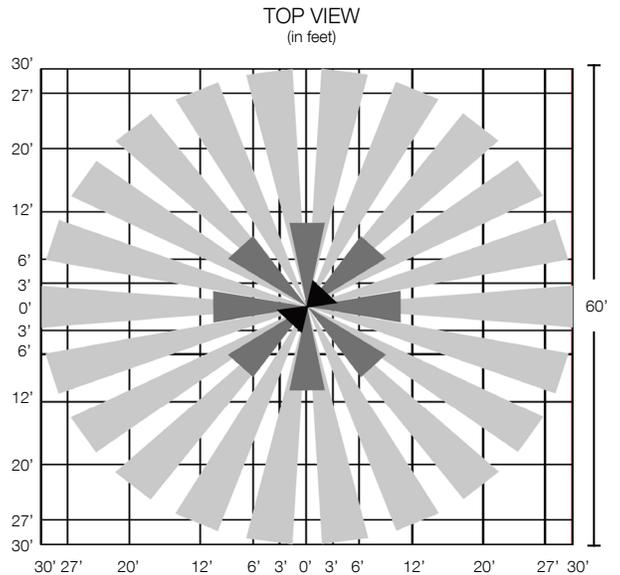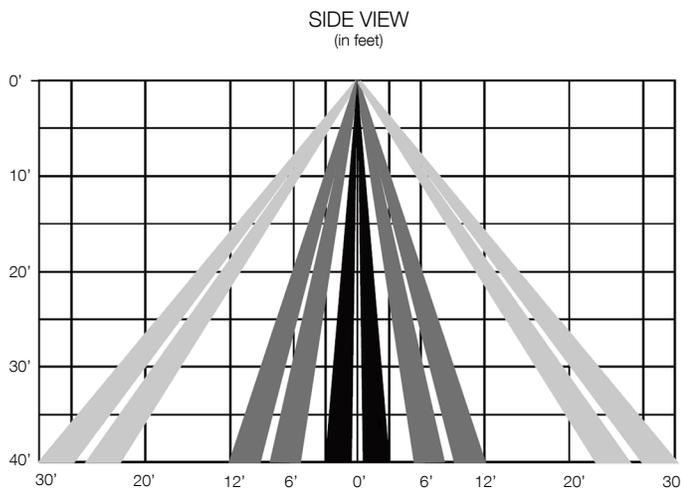
ORDER CODES

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

c UL us LISTED

Quick Ship

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ALS CONTROL

REMOTE-RC100 SENSOR REMOTE PROGRAMMER

Client:
Project:
Type:
Quantity:

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

Dimension

L - 4.84" (123mm)
W - 2.76" (70mm)
H - .80" (20.3mm) Thickness

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 Akaline batteries

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.
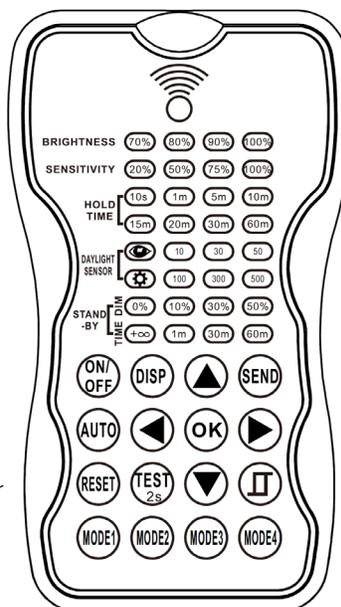
TIME: Set the time (+∞, 1m, 30m, or 50m) that the sensor will remain in stand-by mode before powering down.

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.

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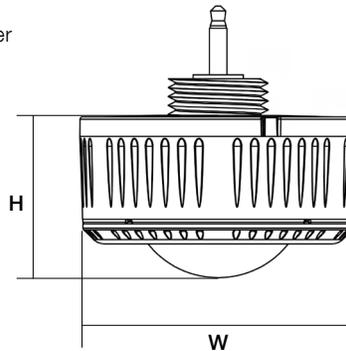# SENSOR-BLE-6 BLUETOOTH PIR SENSOR

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

SIDE VIEW
(in feet)

TOP VIEW
(in feet)

60 FT
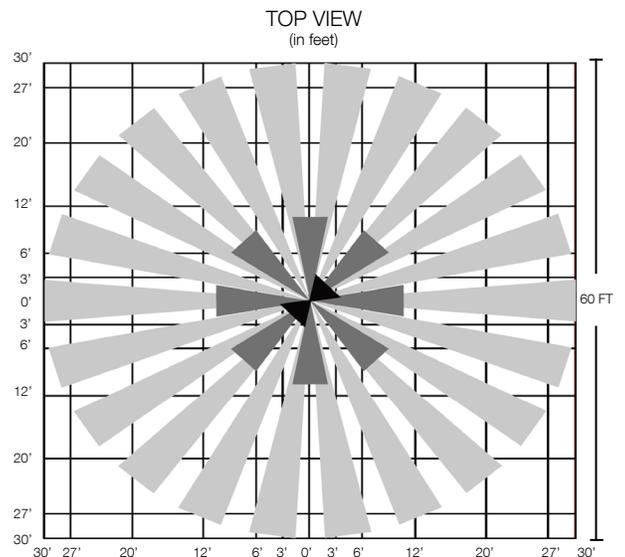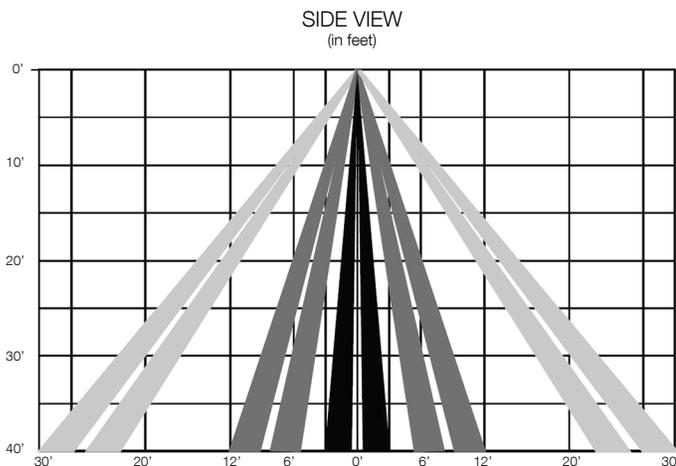
ORDER CODES

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.