

AL2 SERIES AREA LIGHT

Client:
 Project:
 Type:
 Quantity:

CONSTRUCTION

Rugged die-cast aluminum housing with hinged, die-cast aluminum door.
 Low profile, 3G vibration rated compact design minimizes wind load requirements.
 Downward opening electrical hinged door completely sealed against moisture and dust.

OPTICS

UV-resistant polycarbonate optics, available in Type II, III, IV, V distributions.
 Full cutoff when mounted with 0 degrees tilt with adjustable mounting.
 Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

ELECTRICAL

80+ CRI Lumileds LED.
 -40°C up to 50°C (-40°F up to 122°F) maximum operating temperature.
 Long-life 120,000 hr LED at L70 @ 25°C.
 Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%.
 50/60Hz, <11% THD, 0.9 power factor.
 Optional 347/480V input. Optional 10kV surge protection.

SENSORS (OPTIONAL)

SENSOR-BLE-619 Integral PIR ALS Control bluetooth/on/off/dimming/photosensing.
 SENSOR-823 Integral PIR on/off/dimming/photosensing.
 SENSOR-820 Integral PIR on/off/dimming/photosensing.
 SENSOR-PH-PB-U Integral button style photocell.
 SENSOR-PH-PT-U/UD/HD Twist lock dimming/non-dimming photocontrol.
 CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.
 CONTROL-BLE-SK104-PH ALS Control Bluetooth Fixtrue Controller.

MOUNTING

Adjustable pole mount bracket suitable for round (RL) or square (SL) pole.
 Optional adjustable slipfitter for 2-3/8" tenon.
 Optional adjustable wall mount (WM) bracket.

STANDARD FINISH

Corrosion resistant Dark Bronze powder coating finish.

CUSTOM FINISH

Corrosion resistant Black, Graphite Metallic, Gray, Silver, White, Custom RAL#.

CERTIFICATION

IP65 Wet location label standard.
 Meets Buy America Act requirements.
 IDA compliant: with 3000K color temperature selection.
 Title 24 compliant; see local ordinance for qualification information.
 All luminaires are built to UL1598 standards and bear appropriate cETLus labels.
 Electrical Driver and luminaire compliant with CE standard.
 DLC® Premium (DesignLights Consortium Qualified).

WARRANTY

5 year warranty, see Limited Warranty for additional information.



300W w/Slipfitter Mount



100W / 150W / 200W w/Slipfitter Mount

SHIPPING DATA

Product	Measurement	Weight
AL2-100/150/200	19"L x 16"W x 5"H	15 lb
AL2-300	29"L x 16"W x 5"H	25 lb



AL2 SERIES AREA LIGHT

ORDER INFORMATION				EXAMPLE : AL2 100 40 T3 DB UNVD									
Fixture		Series		Power & LM		CCT		Distribution		Finish		Input	
		AL2											
A SERIES													
AL2		Area Light											
B POWER & LM* *Wattage / Lumen output dialable per request - consult factory													
Code		Power		LM		Code		Power		LM			
100*		100W		13400lm		200*		200W		27400lm			
150*		150W		20400lm		300*		300W		40800lm			
C CCT													
30		3000K				50		5000K					
40		4000K											
D DISTRIBUTION													
T2		Type II				T4		Type IV					
T3		Type III				T5		Type V					
E FINISH													
Standard													
DB		Dark Bronze											
Custom Color													
CC		BK		Black		GM		Graphite Metallic		GR		Gray	
		SV		Silver		WH		White		RAL#			
F INPUT													
UNVD		120-277V, 1-10V Dimmable				HVL		347V, 480V					

AL2 SERIES AREA LIGHT

ORDER INFORMATION (CONTINUED)

Mounting

Accessories Options

G MOUNTING

MOUNT-P-SF	Slipfitter	MOUNT-P-RL	Round Pole-L
MOUNT-P-SL	Square Pole-L	MOUNT-P-RS	Round Pole-S
MOUNT-P-SS	Square Pole-S	MOUNT-P-WM	Wall Mount

H ACCESSORIES/OPTIONS

AIA	Assembled in America, compliant with BAA (COTS)
SENSOR-BLE-619-L3 / L4*	Integral PIR Bluetooth Daylight Sensor (ALS Control Mobile App) / L3: up to 40FT, L4: up to 8FT
SENSOR-PH-PB-U*	Button Style Photocell
SENSOR-PH-PT-U / UD / HD*	Twist Lock Photocell / U: 120-277V, UD: 120-277V, HD: 480V input
SENSOR-823-L3 / L4*	Integral PIR on/off/dimming/photosensing / L3: up to 40FT, L4: up to 8FT
SENSOR-820*	Integral PIR on/off/dimming/photosensing
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-823, 820 Series
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
CONTROL-BLE-SK104-PH*	Integral Bluetooth Fixture Controller w/Button Photocell (ALS Control Mobile App)

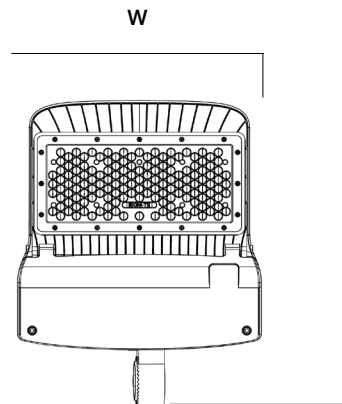
*see page 7 for sensor spec

AL2 SERIES AREA LIGHT

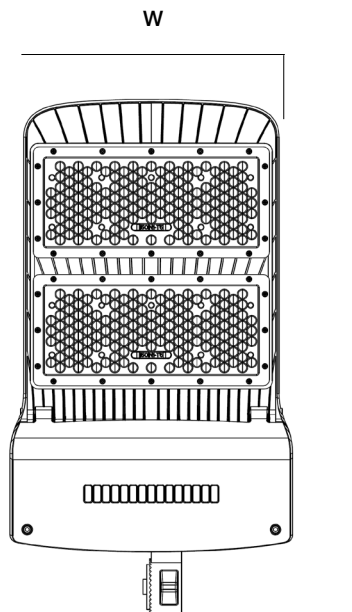
DIMENSIONS

Model	L	W	H
AL2-100 / 150 / 200	18.31" (465mm)	14.80" (376mm)	2.38" (60mm)
AL2-300	27.17" (690mm)	14.80" (376mm)	2.38" (60mm)

AL2-100
 AL2-150
 AL2-200
 Single-board layout

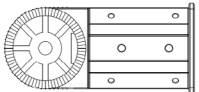

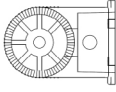
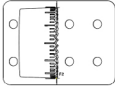
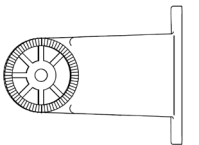
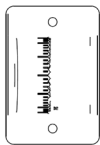
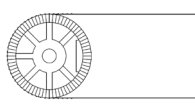
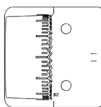
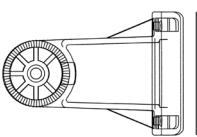
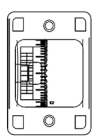
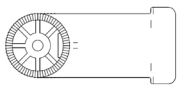



AL2-300
 Dual-board layout



AL2 SERIES AREA LIGHT

MOUNTING OPTIONS

L		W		H		L	W	H			
											
SF (Slipfitter)						WM (Wall Mount)					
L: 6.93" (176mm)		W: 3.46" (88mm)				L: 4.69" (119mm)		W: 4.82 (123mm)			
H: 3.81" (97mm)						H: 3.54" (90mm)					
L		W		H		L	W	H			
											
SL (Square Pole L)						SS (Square Pole-S)					
L: 7.13" (181mm)		W: 3.74" (95mm)				L: 7.05" (179mm)		W: 3.64" (93mm)			
H: 5.51" (140mm)						H: 3.54" (90mm)					
L		W		H		L	W	H			
											
RL (Round Pole-L)						RS (Round Pole-S)					
L: 8.09" (206mm)		W: 3.74" (95mm)				L: 7.88" (200mm)		W: 3.64" (93mm)			
H: 5.51" (140mm)						H: 3.54" (90mm)					

AL2 SERIES AREA LIGHT

PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	DIST.TYPE	4000K		5000K	
			LUMENS	LPW	LUMENS	LPW
100W	120-277V	III	13200	132	13500	135
	120-277V	IV	13300	133	13600	136
	120-277V	V	13400	134	13700	137
150W	120-277V	III	19650	131	20100	134
	120-277V	IV	19800	132	20250	135
	120-277V	V	19950	133	20400	136
200W	120-277V	III	26400	132	27000	135
	120-277V	IV	26600	133	27200	136
	120-277V	V	26800	134	27400	137
300W	120-277V	III	39300	131	40200	134
	120-277V	IV	39600	132	40500	135
	120-277V	V	39900	133	40800	136

AL2 SERIES AREA LIGHT

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-PH-PT-U SENSOR-PH-PT-UD SENSOR-PH-PT-HD	-	-	-	Universal 277 ~ 480V	Dusk-to-Dawn Control	-
CONTROL-LVFA (see page 8 for detail)	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
CONTROL-BLE-SK104-PH	Fixture Controller	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling CCT Tuning	ALS Control Bluetooth Mobile App
SENSOR-BLE-619 (see page 9 for detail)	PIR	L3 - 40FT L4 - 8FT	30FT radius 24FT radius	12V DC	Bluetooth Mesh On/Off Daylight	ALS Control Bluetooth Mobile App



SENSOR-823



SENSOR-820



SENSOR-PH-PB-U



SENSOR-PH-PT-U/UD



SENSOR-PH-PT-HD



CONTROL-LVFA



SENSOR-BLE-619



CONTROL-BLE-SK104-PH

AL2 SERIES AREA LIGHT

CONTROL-LVFA SPEC

Status LEDs & Config Button

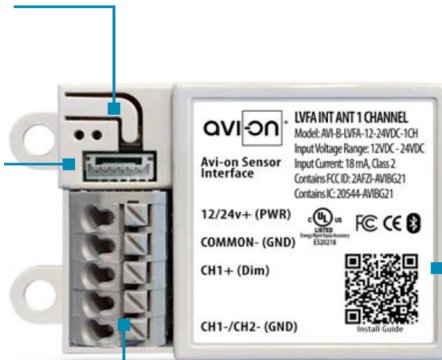
Quick and easy validation of wiring and network

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

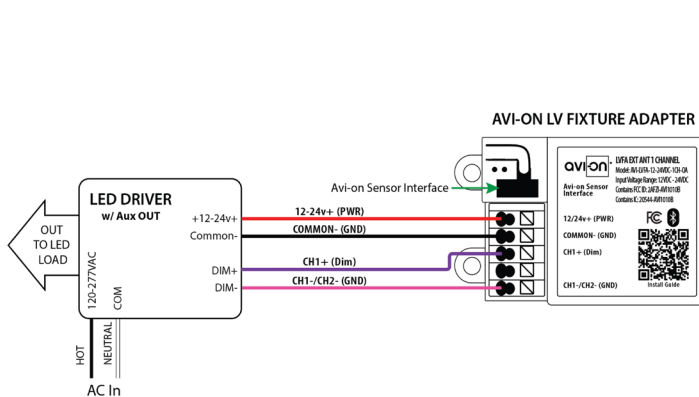
SPECIFICATIONS

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)

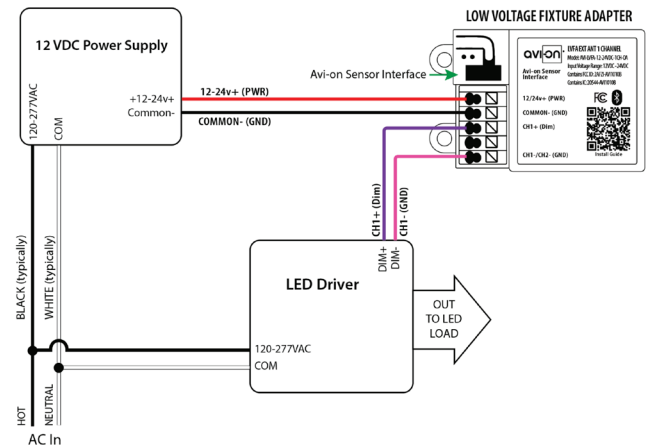
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: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

FEATURE

- **Installation:** Factory Install - Sensor integral to fixture, lens external
- **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, manual/auto - on/off
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight
- **Zone Control:** Zoning and Grouping control, Scheduling

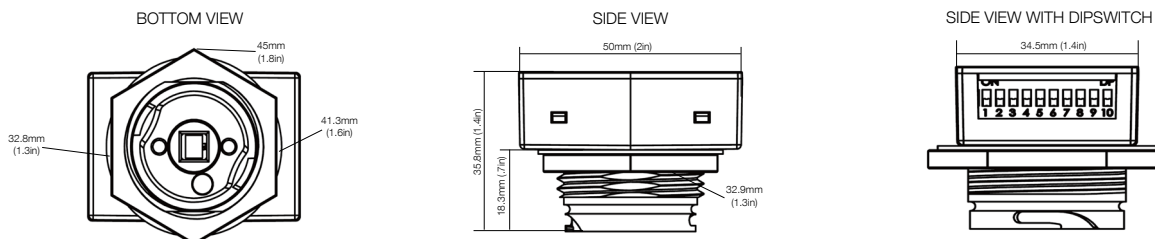


SPECIFICATIONS

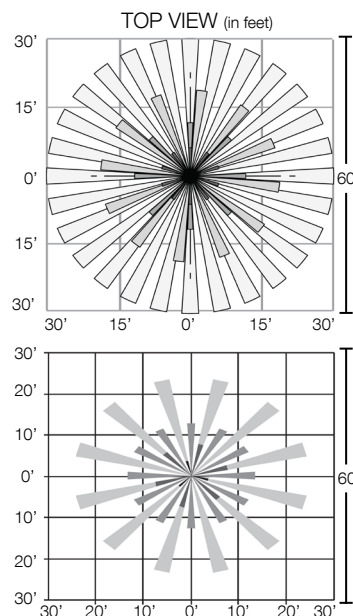
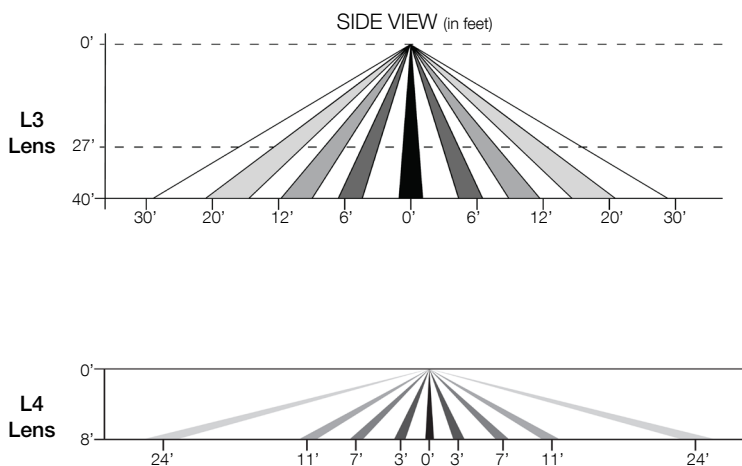
SENSOR TYPE: Passive Infrared Sensor (PIR)
WIRELESS STANDARDS: Bluetooth SIG Mesh
INPUT VOLTAGE: 12-24VDC, >50mA
CONTROL OUTPUT: 0-10V
OPERATING TEMP: -40°F ~ +158°F (-40°C ~ +70°C)

COMMISSIONING RANGE: 50FT
BLUETOOTH RANGE: Integral antenna up to 100FT
DETECTION ANGLE: Vertical 90° x Horizontal 360°
MOUNTING HEIGHT: 8 - 40FT
WARRANTY: 5 years
IP RATING: IP65

DIMENSIONS



COVERAGE PATTERNS



FEATURE

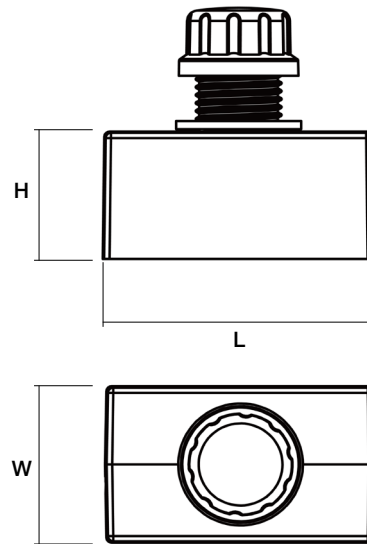
- **Installation:** Factory / Jobsite install through 1/2" knockout hole, 12V AUX power required
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** High-End Trim, Zoning, Continuous Bi-level Dimming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



SPECIFICATIONS

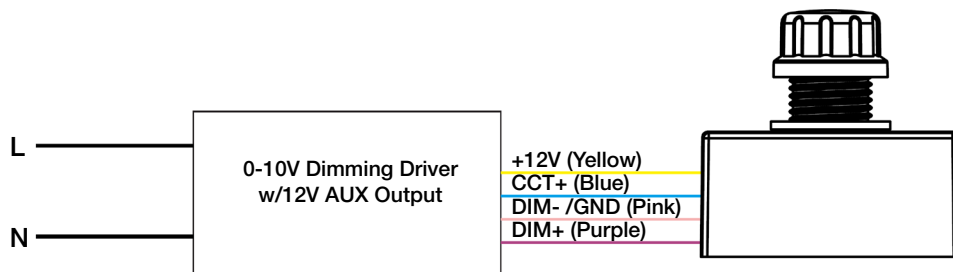
SENSOR TYPE:	Photocell
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-14VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	100FT
DETECTION ANGLE:	360°
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS



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

WIRING DIAGRAM



FEATURE

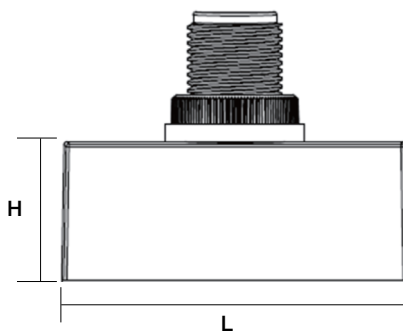
- **Installation:** Factory Install - Integral to Fixture
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, manual/auto - on/off
- **Sensor:** Dusk-to-Dawn Control

SPECIFICATIONS

SENSOR TYPE:	Photocell
INPUT VOLTAGE:	Universal 120-277VAC
ON-OFF LEVELS:	10 ~ 50LUX On (Dusk) 30 ~ 80LUX Off (Dawn)
POWER CONSUMPTION:	2W
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
RATED FREQUENCY:	50/60Hz
RATED LOADING:	Tungsten: 1000W Ballast: 1800VA
TIME DELAY:	2.3 - 10 seconds
RELATIVE HUMIDITY:	99%
WARRANTY:	5 years



DIMENSIONS



L	H
2.05" (52mm)	.91" (23mm)

SENSOR-PH-PT TWIST-LOCK PHOTOCELL

Client:
 Project:
 Type:
 Quantity:

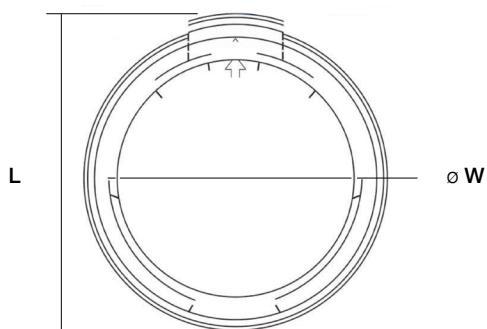
FEATURE

- **Installation:** Factory Install - Integral to Fixture
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, manual/auto - on/off
- **Sensor:** Dusk-to-Dawn Control

SPECIFICATIONS

SENSOR TYPE:	Twist-Lock Photocell
INPUT VOLTAGE:	110-277VAC
ON-OFF LEVELS:	50LUX
POWER CONSUMPTION:	1.2W
SURGE PROTECTION:	40,000Amp
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
RATED FREQUENCY:	50/60Hz
RATED LOADING:	Tungsten: 1000W Ballast: 1800VA, 5A e-Ballast
TIME DELAY:	10 seconds
RELATIVE HUMIDITY:	99%
DIELECTRIC STRENGTH:	5000Vrms
IP RATING:	IP65
WARRANTY:	5 years

DIMENSIONS



L	W
3.31" (84mm)	ø 3.40" (ø 86mm)

ORDER CODES

SENSOR-PH-PT-U	Twist-Lock 3-Pin (Wet) Photocell, 120-277V Input
SENSOR-PH-PT-UD	Twist-Lock 7-Pin (Wet) Photocell, 120-277V Input
SENSOR-PH-PT-HD	Twist-Lock 7-Pin (Wet) Photocell, 480V Input



FEATURE

- **Installation:** Factory Install - Sensor Integral to Fixture
- **Commissioning:** through Remote Control
- **Control:** Hold time, High-Low setting, Continuous Bi-level Dimming, Manual/Auto - On/Off
- **Sensor:** Motion (Occupancy/Vacancy/Manual)

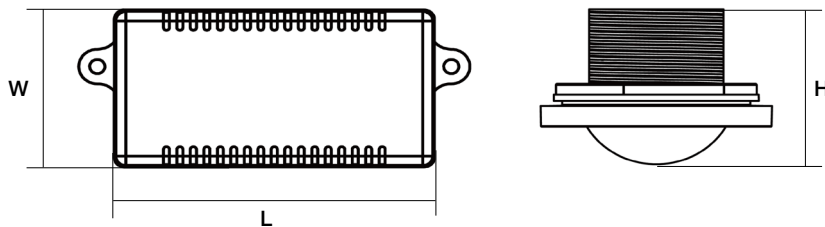


SPECIFICATIONS

SENSOR TYPE: Passive Infrared Sensor (PIR)
INPUT VOLTAGE: 120/480VAC
LIGHT-CONTROL: 10 ~ 2000LUX
CONTROL OUTPUT: 0-10V
OPERATING TEMP: -40°F ~ +158°F (-40°C ~ +70°C)

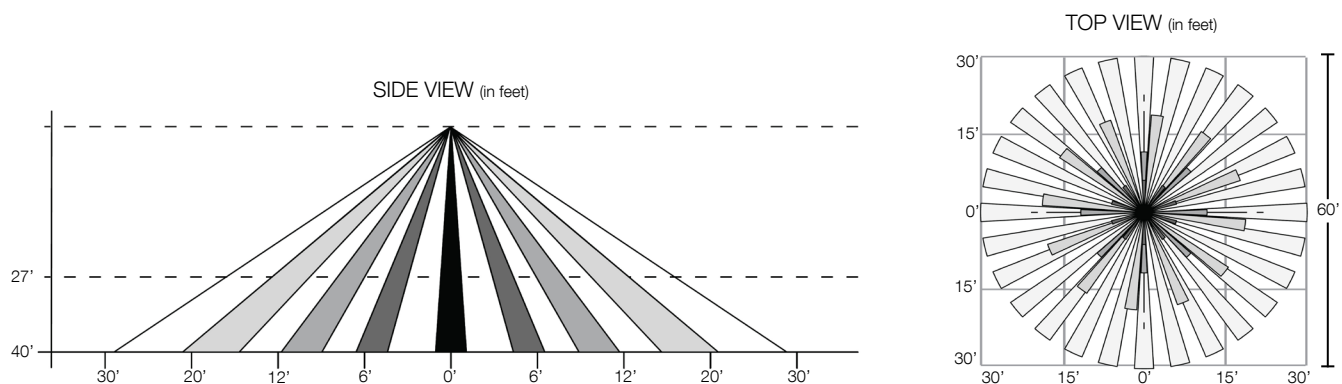
COMMISSIONING RANGE: 50FT from Remote Control
TIME SETTING: 10sec ~ 60min (adjustable)
DETECTION ANGLE: 360°
MOUNTING HEIGHT: Up to 40FT
WARRANTY: 5 years
IP RATING: IP65

DIMENSIONS



L	W	H
4.1" (105mm)	2" (50mm)	1.2" (30mm)

COVERAGE PATTERNS



FEATURE

- **Installation:** Factory Install - Sensor Integral to Fixture, Lens External
- **Commissioning:** through Remote Control
- **Control:** Hold time, High-Low setting, Continuous Bi-Level Dimming, Manual/Auto - On/Off
- **Sensor:** Motion (Occupancy/Vacancy/Manual)

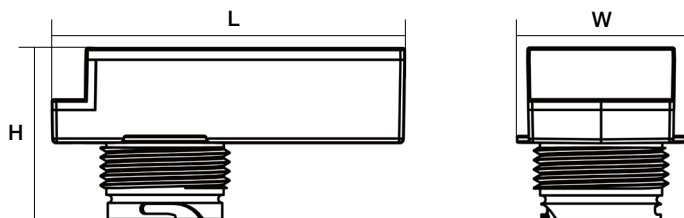


SPECIFICATIONS

SENSOR TYPE:	Passive Infrared Sensor (PIR)
INPUT VOLTAGE:	120/277VAC
LIGHT-CONTROL:	10 ~ 50LUX
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)

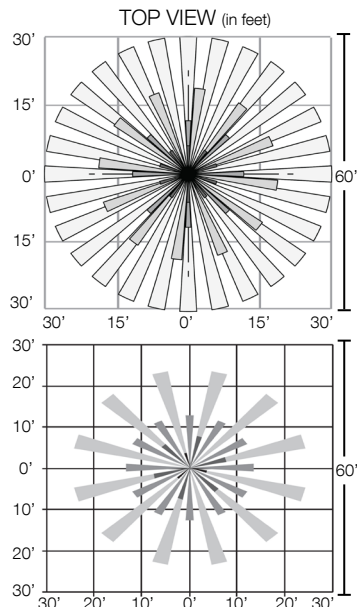
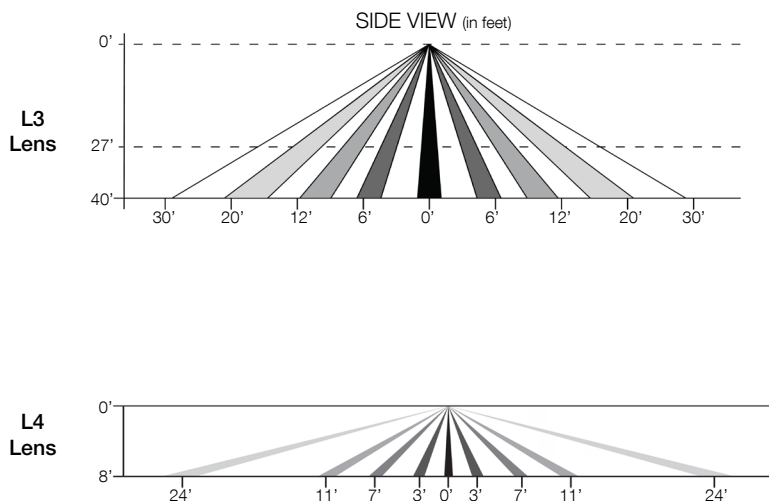
COMMISSIONING RANGE:	50FT from Remote Control
TIME SETTING:	10sec ~ 60min (adjustable)
DETECTION ANGLE:	360°
MOUNTING HEIGHT:	8 - 40FT
WARRANTY:	5 years
IP RATING:	IP66

DIMENSIONS



L	W	H
3.5" (90mm)	1.6" (41mm)	1.7" (43mm)

COVERAGE PATTERNS



ORDER CODE

EXAMPLE: SENSOR-823-D-L3

A SERIES

SENSOR-823-D-L Integral PIR on/off/dimming/photosensing

B LENS

Code	Mounting	Coverage
3	40FT	30FT Radius
4	8FT	24FT Radius

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-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.

