ALS®
Advantage Lighting Solutions

ILxA-G2 SERIES SELECTABLE LINEAR STRIP

Client:
Project:
Type:
Quantity:

CONSTRUCTION

Available with 2-Foot, 4-Foot and 8-Foot compact design channel formed from cold-rolled 22-gauge steel with matte white finish. 1/2” knockout made on end cap for sensor or surface conduit mount.



OPTICS

End-to-end U-shaped frosted polycarbonate (PC) lens standard.

ELECTRICAL

Delivered 150lm/W efficacy LEDs offer 80+ color rendering index (CRI).
L70 >100,000 hours expected life.
-20°C up to 50°C (-4°F up to 122°F) maximum operating temperature.
Selectable lumen and CCT technology allows easy field-adjustable capability.
Driver operates at 120-277V input, 0-10V dimmable driver.

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-3C-B1 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.*
Surface mountable underneath electrical box (5” OD beauty ring included).
*Power cord - optional add-on.

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® Standard (DesignLights Consortium Qualified).

WARRANTY

5 year warranty, see Limited Warranty for additional information.

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ILxA-G2 SERIES SELECTABLE LINEAR STRIP

ORDER INFORMATION — EXAMPLE: IL 4A-G2-SC WH UD

Fixture	Series	Size	Finish	Input
	IL		WH	

Accessories Options			

A SERIES

IL	Linear Strips

B SIZE

Code	Size	Power	CCT
2A-G2-SC	2-Foot	13W / 17W / 21W / 26W	3000K / 3500K / 4000K / 5000K / 6500K
4A-G2-SC	4-Foot	40W / 53W / 68W / 80W	3000K / 3500K / 4000K / 5000K / 6500K
8A-G2-SC	8-Foot	80W / 94W / 106W / 136W	3000K / 3500K / 4000K / 5000K / 6500K

C FINISH

WH	White

D INPUT

UD	120-277V, 0-10V Dimmable
MD	120-347V, 0-10V Dimmable

E ACCESSORIES/OPTIONS

BAA	Assembled in America, compliant with BAA (COTS)
90CRI	90CRI
MOUNT-HIGHBAY-CK	Aircraft Cable Hanger Kit (Pair)
EMB-8W-B**	90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output (Compatible with IL2A-G2 and IL4A-G2 only)
EMB-18W-B**	90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output (Compatible with IL8A-G2 only)
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-3C-B1*	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
WIREGUARD-IL4A-MC	Wireguard - IL4A-G2 (1:1) IL8A-G2 (2:1)
-CORD	18-3 300V 6 Foot Cord
-PLUG	18-3 300V 6 Foot and 3 Prong Plug

*see page 5 for sensor spec

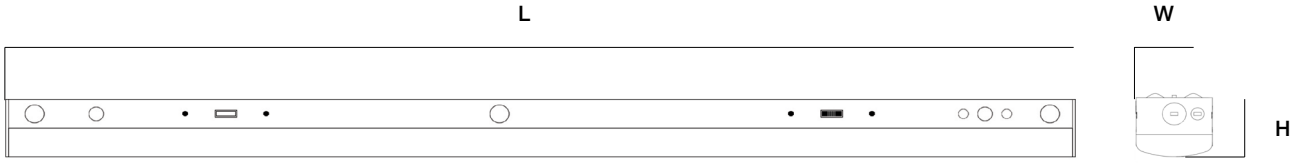
**see page 6 for emb spec

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ILxA-G2 SERIES SELECTABLE LINEAR STRIP

DIMENSIONS

Model	L	W	H	OD
IL4A-G2-SC	22.2” (564mm)	2.8” (72mm)	2.5” (64mm)	
IL4A-G2-SC	47.3” (1202mm)	2.8” (72mm)	2.5” (64mm)	-
IL8A-G2-SC	94.2” (2392mm)	2.8” (72mm)	2.5” (64mm)	



ILxA-G2 SERIES SELECTABLE LINEAR STRIP

PERFORMANCE DATA

MODEL	SYSTEM WATTS	LUMENS (AVG.)	LPW (AVG.)
IL2A-G2-SC	13W	1950	150
	17W	2550	
	21W	3150	
	26W	3900	
IL4A-G2-SC	40W	6000	150
	53W	7950	
	68W	10200	
	80W	12000	
IL8A-G2-SC	80W	12000	150
	94W	14100	
	106W	15900	
	136W	20400	

DLC CODE

Part Number	DLC Product ID	DLC Class
IL2A-G2-SC	pending	-
IL4A-G2-SC	S-CV79ZL	Premium - 6.0
IL8A-G2-SC	S-0Q4W2T	Premium - 6.0

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 9 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 10 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-3C-B1 (see page 8 for detail)	Microwave	up to 12FT	12FT 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-3C-B1



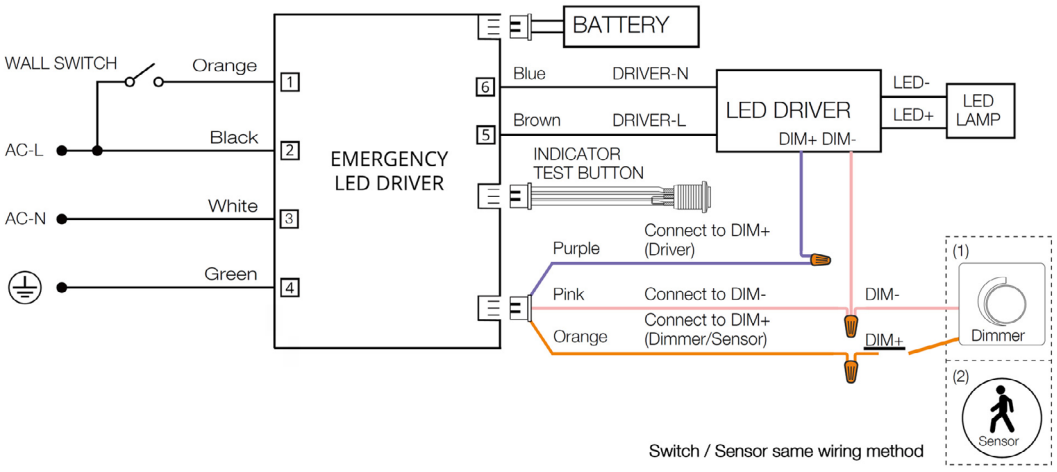
CONTROL-LVFA



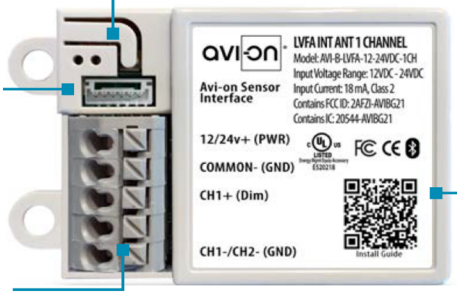
CONTROL-BLE-620

EMB SPEC

Model	Compatible Fixture	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-8W-B	IL2A-G2-SC IL4A-G2-SC	90mins	100-347VAC	170VDC	8W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-8W-B	IL8A-G2-SC	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install



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

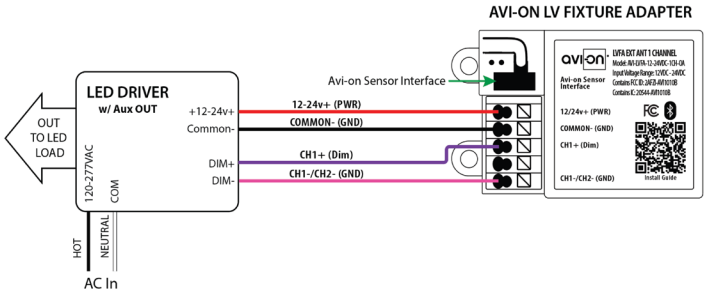
SPECIFICATIONS

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)

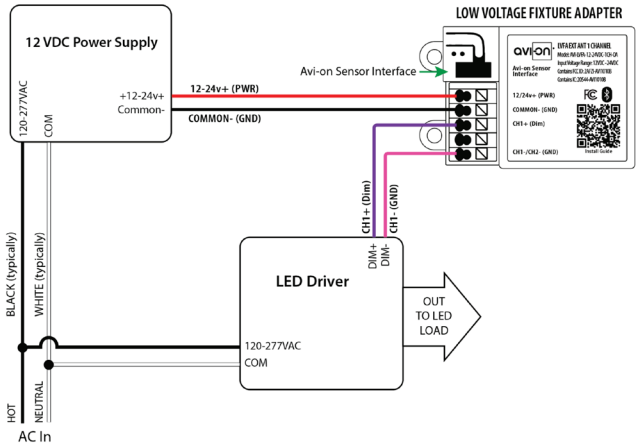
RADIO FREQUENCY:	2.4GHz
WIRELESS STANDARD:	BLE 4.2 with Mesh
POINT TO POINT RANGE*:	80ft with obstructions 350ft unobstructed
SECURITY:	AES 128-bit encryption for device to device communication AES 256-bit encryption for device to cloud communication
WARRANTY:	5 years; 10 years optional
REGULATORY:	FCC: 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-ANT-3C-B1 MICROWAVE SENSOR

Client:
Project:
Type:
Quantity:

FEATURE

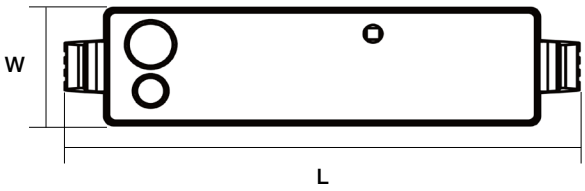
- **Installation:** Factory Install - Integral to Fixture
- **Commissioning:** through RC100 Remote Control
- **Control:** Hold time, High-Low Setting, Continuous Bi-Level Dimming, Code-Compliant Manual-On or Auto-Off Capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual)
- **Factory Default:** 100% Sensitivity / Hold on Time: 5mins / Daylight Sensor is ☼ / Dimming Level: 30% / Dimming Time: 60mins



SPECIFICATIONS

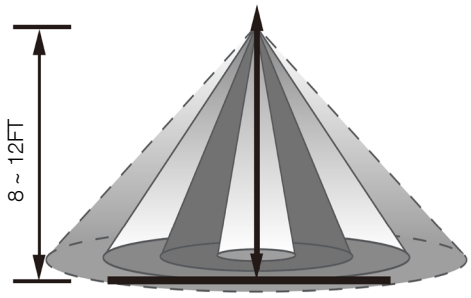
SENSOR TYPE:	Microwave	**COMMISSIONING RANGE:**	50FT from Remote Control
INPUT VOLTAGE:	10-14VDC, >50mA	**TIME SETTING:**	10sec ~ 60min (adjustable)
LIGHT-CONTROL:	10 ~ 50LUX	**DETECTION ANGLE:**	360°
CONTROL OUTPUT:	0-10V	**MOUNTING HEIGHT:**	Up to 12FT
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)	**WARRANTY:**	5 years

DIMENSIONS



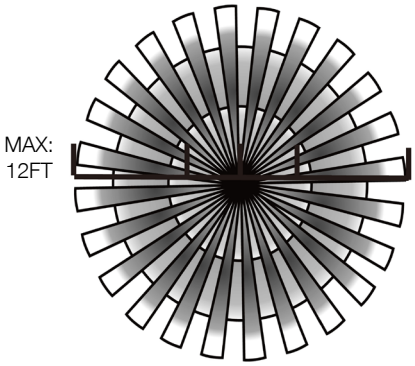
L	W
3.70” (94mm)	0.73” (18.5mm)

COVERAGE PATTERNS



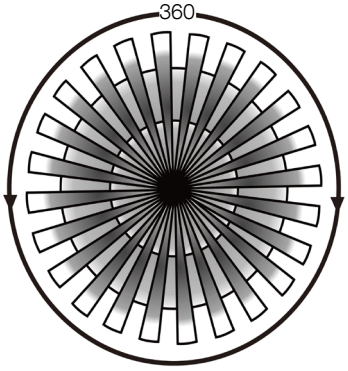
Height of Installation 8 ~12FT

Detection Range



Height of Installation 8FT

Detection Angle



ORDER CODES

SENSOR-ANT-3C-B1	Integral Microwave Bi-Level Motion Sensor

c UL us LISTED

Quick Ship

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Specifications are subject to change without notice

ALS CONTROL

SENSOR-BLE-819 BLUETOOTH PIR SENSOR

Client:
Project:
Type:
Quantity:

FEATURE

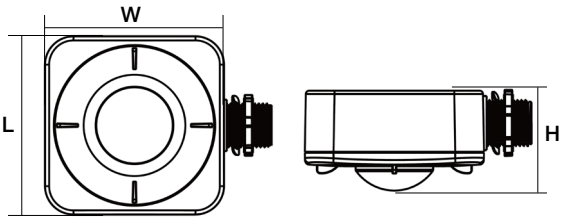
- **Installation:** Factory or Field Install End Mount to Fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on or auto-off capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight Harvesting
- **Room and Zone Control:** Zoning and Grouping control, Scheduling



SPECIFICATIONS

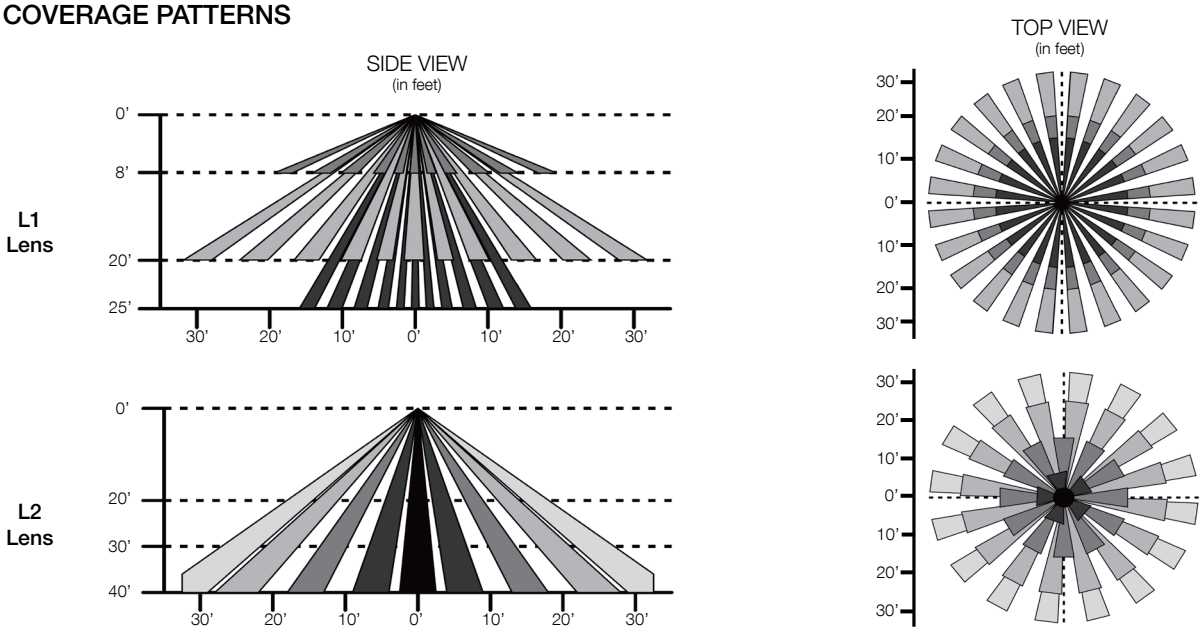
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	Bluetooth SIG Mesh
INPUT VOLTAGE:	120/277VAC
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +167°F (-40°C ~ +75°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	Intergral antenna up to 100FT
DETECTION ANGLE:	Vertical 90° x Horizontal 360°
MOUNTING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

DIMENSIONS



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

COVERAGE PATTERNS



ALS CONTROL

SENSOR-BLE-7 BLUETOOTH MICROWAVE SENSOR

Client:
Project:
Type:
Quantity:

FEATURE

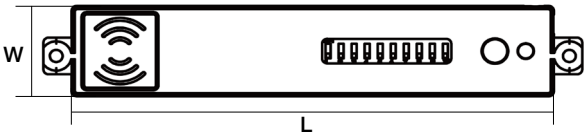
- **Installation:** Factory Install - Integral to Fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on or auto-off capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual)
- **Room and Zone Control:** Zoning and Grouping control, Scheduling



SPECIFICATIONS

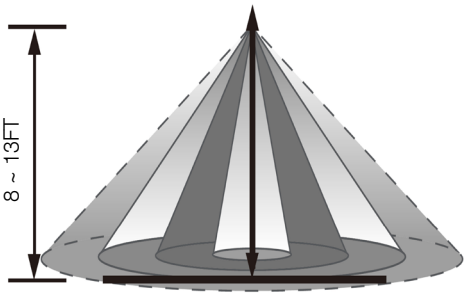
SENSOR TYPE:	Microwave
WIRELESS STANDARDS:	Bluetooth SIG Mesh
INPUT VOLTAGE:	10-14VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +158°F (-40°C ~ +70°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	Integral antenna up to 164FT
DETECTION ANGLE:	360°
MOUNTING HEIGHT:	Up to 13FT
WARRANTY:	5 years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

DIMENSIONS



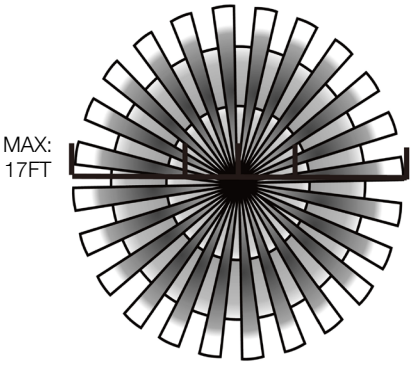
L	W
3.70” (94mm)	0.73” (18.5mm)

COVERAGE PATTERNS



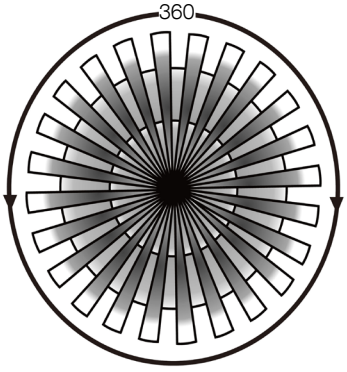
Height of Installation 8 ~13FT

Detection Range



Height of Installation 8FT

Detection Angle



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.

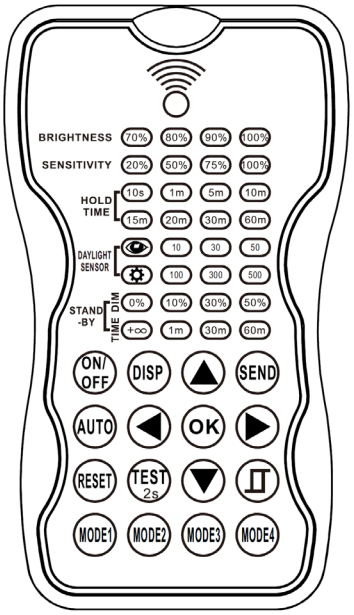
DAYLIGHT SENSOR
Set the threshold of natural light (in 10, 30, or 50) as setpoint to light on automatically for the sensor. If natural light is above the selected threshold, fixture will shut off
Set daylight (in 100, 300, 500) as setpoint to light off.

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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