ALS®
Advantage Lighting Solutions

CONTRACTOR SERIES LINEAR STRIP

Client:
Project:
Type:
Quantity:

CONSTRUCTION
Slim 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 130lm/W efficacy LEDs offer 80+ color rendering index (CRI).
L70 >100,000 hours expected life @50°C ambient.
L70 >130,000 hours expected life @25°C ambient.
-40°C up to 50°C (-40°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%.
Optional 10kV surge protector.

MOUNTING
Designed for direct wiring, surface mountable underneath electrical box.
5” OD beauty ring included.

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.

STANDARD FINISH
Semi-gloss White finish, suitable for damp location.

CERTIFICATION
Damp location label standard.
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.

CONTRACTOR SERIES LINEAR STRIP

ORDER INFORMATION

EXAMPLE: CSL 4SMC WH UD

Fixture	Series	Size	Finish	Input
	CSL		**WH**	**UD**

Accessories Options			

A SERIES

CSL	Contractor Series - Linear Strip

B SIZE

Code	Size	Power	CCT
4SMC	4-Foot	34W / 38W / 45W	3500K / 4000K / 5000K
8SMC	8-Foot	65W / 75W / 90W	3500K / 4000K / 5000K

C FINISH

WH	White

D INPUT

UD	120-277V, 0-10V Dimmable

E ACCESSORIES/OPTIONS

BAA	Assembled in America, compliant with BAA (COTS)
90CRI	90CRI
-C	3/8" x 6FT Steel Flex 5-18AWG Solid 6' leads BLK/WH/GRN/PUR/PNK & 3/8" Die Cast Screw-In Locknut Connectors
SURGE-LSP4-U	10kV Inline Surge Protection for Universal Input / **U:** 120-277V
MOUNT-HIGHBAY-CK	Aircraft Cable Hanger Kit (Pair)
WIREGUARD-CSL	Wireguard for CSL
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
REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-819-D1/D2 Only
SENSOR-BLE-819-L1*	End Mount PIR Bluetooth Daylight Harvesting Sensor (ALS Control Mobile App) / **L1**: up to 20FT
EMB-8W-B**	90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output
GTD-ESRLUD***	Emergency Battery Generator Transfer Device 120-277 VAC Input
-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

***see pages 13-14 for GTD spec

CONTRACTOR SERIES LINEAR STRIP

DIMENSIONS

Model	L	W	H
CSL-4SMC	48.00” (1219mm)	2.00” (48mm	2.50” (64mm)
CSL-8SMC	95.00” (2438mm)	2.00” (48mm)	2.50” (64mm)

CONTRACTOR SERIES LINEAR STRIP

PERFORMANCE DATA

SYSTEM WATTS	SIZE	VOLTAGE	3500K		4000K		5000K	
			LUMEN	LPW	LUMEN	LPW	LUMEN	LPW
34W	4-Foot	120-277V	4,420	130	4,454	131	4,488	132
38W	4-Foot	120-277V	4,940	130	4,978	131	5,016	132
45W	4-Foot	120-277V	5,850	130	5,895	131	5,940	132
65W	8-Foot	120-277V	8,450	130	8,515	131	8,580	132
75W	8-Foot	120-277V	9,750	130	9,825	131	9,900	132
90W	8-Foot	120-277V	11,700	130	11,790	131	11,880	132

DLC CODE

Part Number	DLC Product ID	DLC Class
CSL-4SMC-WHUD	S-VVJYS4	Standard
CSL-8SMC-WHUD	Linear: S-M9BM7Z / HighBay: S-7S7LBB	Standard

CONTRACTOR SERIES LINEAR STRIP

SENSOR SPEC

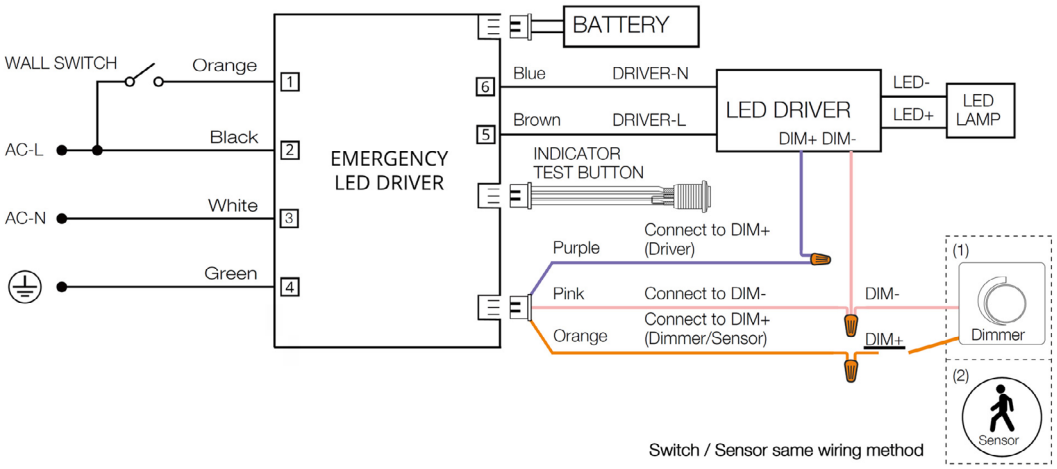
Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-819-O1	PIR	20FT	30FT radius	Universal	On/Off	-
SENSOR-819-D1	PIR	20FT	30FT radius	Universal	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-819 (see page 7 for detail)	PIR	**L1** - 20FT	30FT radius	Universal	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App

SENSOR-819-XX
SENSOR-BLE-819

CONTRACTOR SERIES LINEAR STRIP

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



ALS CONTROL

SENSOR-BLE-819 BLUETOOTH PIR SENSOR

Client:
Project:
Type:
Quantity:

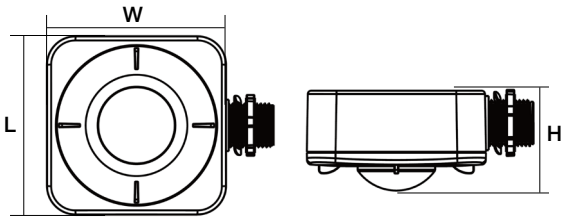
FEATURE

- **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

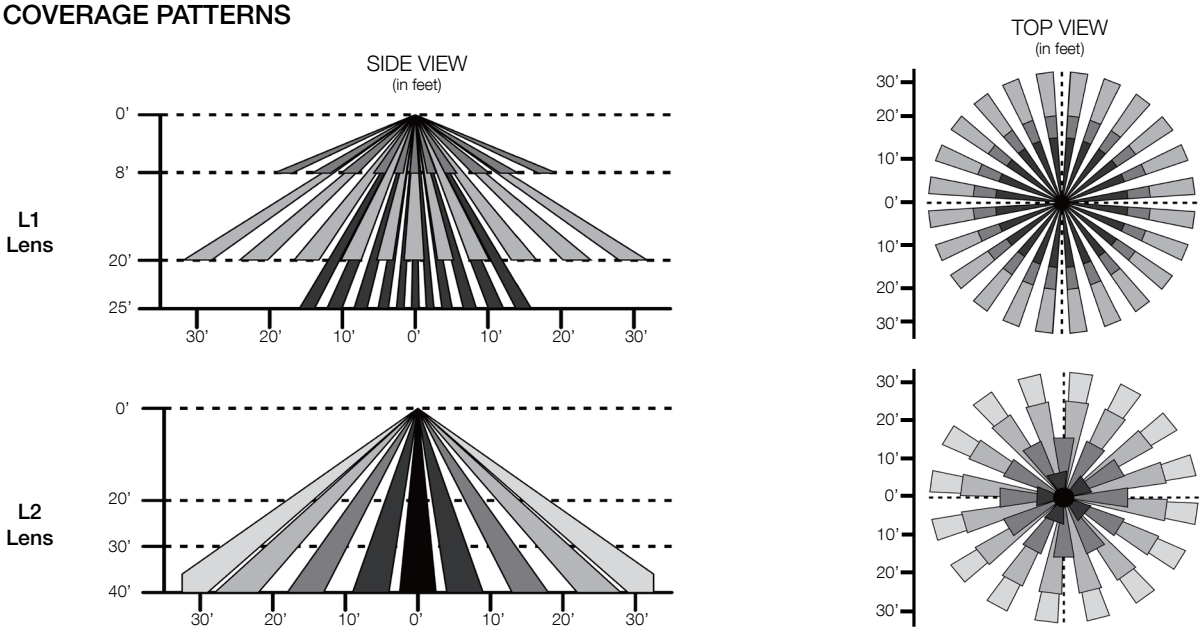
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	Bluetooth SIG Mesh
INPUT VOLTAGE:	120/277VAC
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-40°F ~ +167°F (-40°C ~ +75°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	Intergral antenna up to 100FT
DETECTION ANGLE:	Vertical 90° x Horizontal 360°
MOUNTING 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-819-O PIR SENSOR

Client:
Project:
Type:
Quantity:

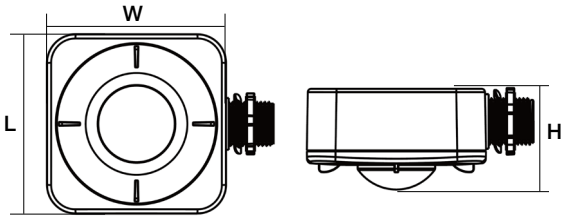
FEATURE

- **Installation:** Factory or Field Install, End Mount to Fixture
- **Commissioning:** Manually Adjusted through Dip Switch
- **Control:** Hold time, Manual/Auto - On/Off
- **Sensor:** Photocell and Motion (Occupancy/Vacancy/Manual)

SPECIFICATIONS

SENSOR TYPE:	Passive Infrared Sensor (PIR)	**TIME SETTING:**	10sec ~ 30min (adjustable)
INPUT VOLTAGE:	120/277VAC	**DETECTION ANGLE:**	360°
LIGHT-CONTROL:	10 ~ 300LUX	**MOUNTING HEIGHT:**	8 - 40FT
OPERATING TEMP:	-40°F ~ +167°F (-40°C ~ +75°C)	**WARRANTY:**	5 years
	Damp Location Listed		

DIMENSIONS



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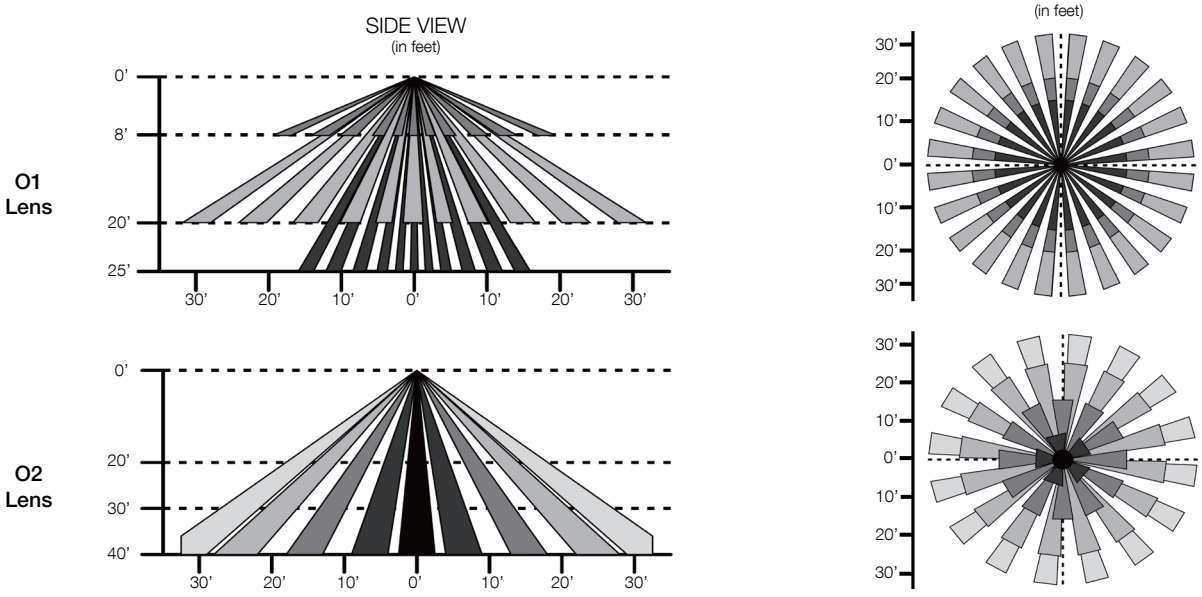
COVERAGE PATTERNS

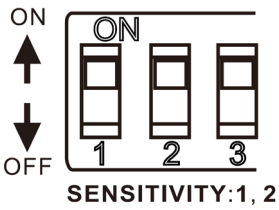


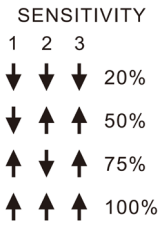
ALS CONTROL

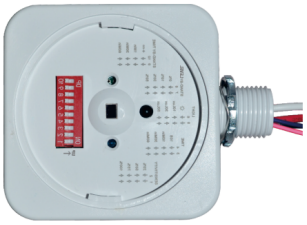
SENSOR-819-O PIR SENSOR

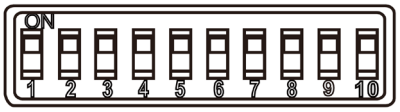
Client:
Project:
Type:
Quantity:

PROGRAMMING SETTINGS



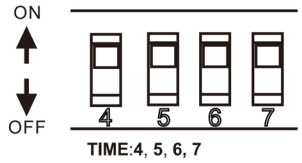


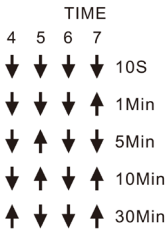




DETECTION RANGE

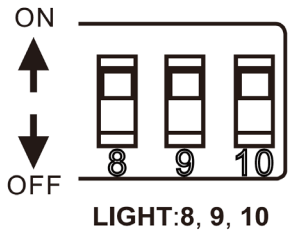
The radius of the more or less circular detection zone produced on the ground after mounting the sensor at a height of 40FT.
Pull switch to ON position “up arrow”, pull switch to OFF position “down arrow” to switch location and detection range.

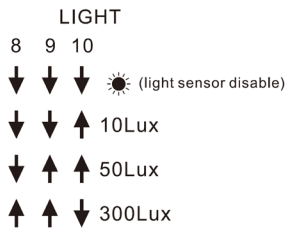




HOLD TIME

Light can be set to stay ON for any period of time between 10s to 30min. Any movement detected before this time elapse will reset.
Pull switch to ON position “up arrow”, pull switch to OFF position “down arrow” to switch location and hold time.





LIGHT-CONTROL

Chosen light response threshold can be infinitely from 10 ~ 300LUX.
Pull switch to ON position “up arrow”, pull switch to OFF position “down arrow” to switch location and light-control.

ORDER CODE — EXAMPLE: SENSOR-819-O2

A SERIES

SENSOR-819-O	End Mount PIR Occupancy Sensor 120-277V Input On/Off

B LENS

Code	Mounting	Coverage
☐ **1**	20FT	30FT Radius
☐ **2**	40FT	30FT Radius

ALS CONTROL

SENSOR-819-D PIR SENSOR

Client:
Project:
Type:
Quantity:

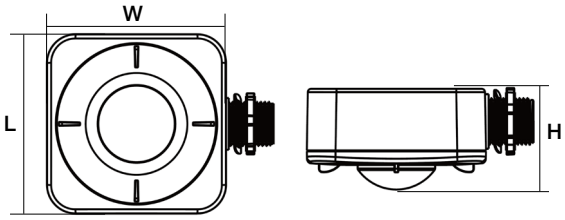
FEATURE

- **Installation:** Factory or Field Install, End Mount to Fixture
- **Commissioning:** Manually Adjusted through Dip Switch or through Remote Control
- **Control:** Hold time, High-Low setting, Continuous Bi-Level Dimming, Code-Compliant Manual-On or Auto-Off Capability
- **Sensor:** Photocell and Motion (Occupancy/Vacancy/Manual)

SPECIFICATIONS

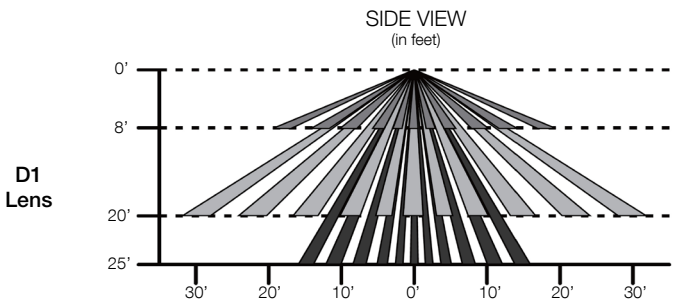
SENSOR TYPE:	Passive Infrared Sensor (PIR)
INPUT VOLTAGE:	120/277VAC
LIGHT-CONTROL:	10 ~ 50LUX
CONTROL OUTPUT:	0-10V Dimming
OPERATING TEMP:	-40°F ~ +167°F (-40°C ~ +75°C) Damp Location Listed
COMMISSIONING RANGE:	50FT from Remote Control
TIME SETTING:	10sec ~ 15min (adjustable)
DETECTION ANGLE:	360°
MOUNTING HEIGHT:	8 - 40FT
WARRANTY:	5 years

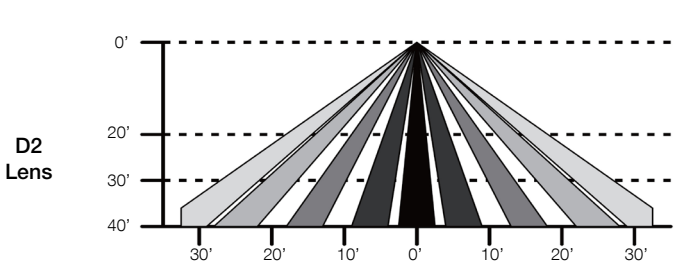
DIMENSIONS

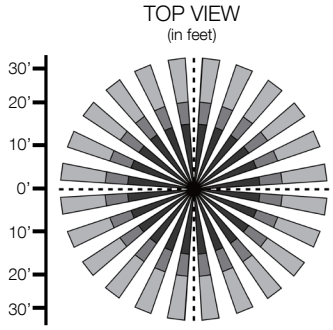


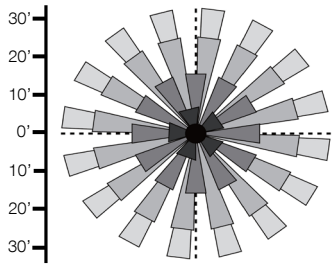
L	W	H
3.19” (81mm)	4.02” (102mm)	1.70” (43.3mm)

COVERAGE PATTERNS









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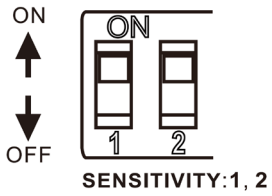
Quick Ship

ALS CONTROL

SENSOR-819-D PIR SENSOR

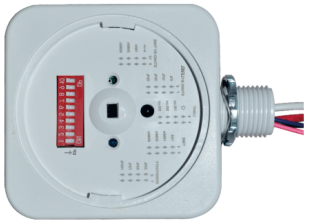
Client:
Project:
Type:
Quantity:

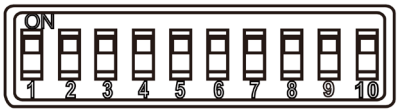
PROGRAMMING SETTINGS



SENSITIVITY:1, 2

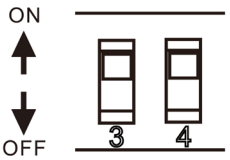
SENSITIVITY 1	2	
↓	↓	20%
↓	↑	50%
↑	↓	75%
↑	↑	100%





DETECTION RANGE

Detection range can be adjusted by selecting the combination on the Dip Switch to fit coverage for each application



TIME:3, 4

TIME 3	4	
↓	↓	10S
↓	↑	1Min
↑	↓	5Min
↑	↑	15Min

HOLD TIME

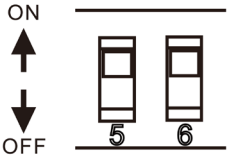
Light can be set to stay ON for any period of time between 10s~15min. Any movement detected before this time elapse will reset.

STAND-BY LEVEL:7, 8

STAND-BY LEVEL 7	8	
↓	↓	0%
↓	↑	10%
↑	↓	30%
↑	↑	50%

STAND-BY LIGHT LEVEL

The low light level selection available for the stand-by period.

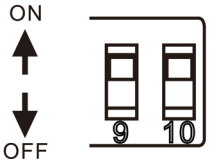


LIGHT:5, 6

LIGHT 5	6	
↓	↓	☀ (light sensor disable)
↓	↑	10Lux
↑	↓	30Lux
↑	↑	50Lux

LIGHT-CONTROL

Chosen light response threshold can be infinitely from 10 ~ 50LUX.



STAND-BY TIME:9, 10

STAND-BY TIME 9	10	
↓	↓	+∞
↓	↑	1Min
↑	↓	30Min
↑	↑	60Min

STAND-BY-TIME

The time period the luminaire remains at a low light level before it completely switches off if no motion is detected.

ORDER CODE — EXAMPLE: SENSOR-819-D2

A SERIES

SENSOR-819-D End Mount PIR Occupancy Sensor 120-277V Input 0-10V Dimming

B LENS

Code	Mounting	Coverage
☐ **1**	20FT	30FT Radius
☐ **2**	40FT	30FT Radius

C OPTIONS

☐ **REMOTE-RC100*** Sensor Remote Control Programmer

*see page 3 for detail

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-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.

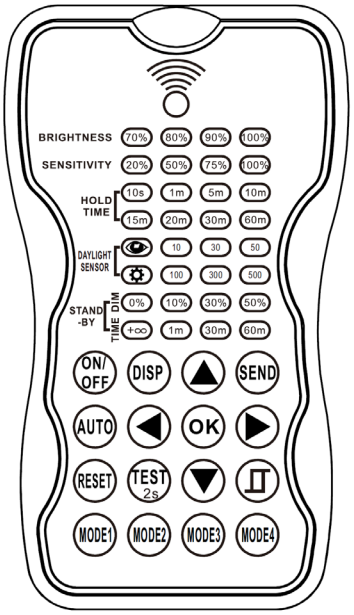
DAYLIGHT SENSOR
Set the threshold of natural light (in 10, 30, or 50) as setpoint to light on automatically for the sensor. If natural light is above the selected threshold, fixture will shut off
Set daylight (in 100, 300, 500) as setpoint to light off.

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.

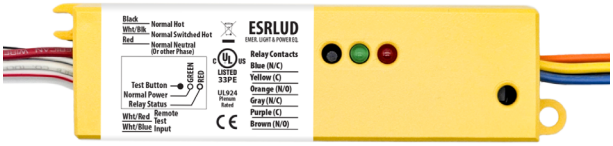
ALS®
Advantage Lighting Solutions

GTD-ESRLUD Generator Transfer Device

Client:
Project:
Type:
Quantity:

CONSTRUCTION

Yellow metal casing. Integrates with dry contact systems to provide lighting during power outages. Features a slim enclosure, allowing for seamlessly integrating into existing building infrastructure.
Designed for commercial and industrial applications that require an emergency load to be switched on during a loss of normal power.



SPECIFICATIONS

COIL CURRENT:	Normal Power = 6mA MAX
COIL VOLTAGE INPUT:	120-277V AC (50/60 Hz)
EXPECTED RELAY LIFE:	10 Million Cycles Min Mechanical
RELAY CONTACT RATINGS:	10 Amp Resistive @ 30 V DC 10 Amp General Use @ 277 V AC
OPERATING TEMP:	-30°F ~ +140°F (-34°C ~ +60°C)
OPERATE TIME:	18ms
HUMIDITY RANGE:	5-95% (Noncondensing)
LED:	Green = Normal Power Red = Relay Status
DIMENSIONS:	1.40"H x 5.63"W x 1.00"D
WIRES:	16", 600V Rated
OVERRIDE (TEST SWITCH):	No
APPROVALS:	UL924, C-UL, CE, ROHS
NOTES:	Device Draws no Current From Emergency Source

TESTING

INITIAL TEST FOR CORRECT WIRING:	Apply Normal Power To Normal Power Input a. Green LED (Normal Power) should be ON b. Red LED (Relay Status) should be ON c. Load should be OFF d. Relay Contact (N/O) should be CLOSED
LOCAL TEST BUTTON:	1. Turn Switched Circuit OFF. Load be OFF. 2. Press and Hold "Local Test Button" 3. Load should Turn ON 4. Release "Local Test Button" and Emergency Light should Turn OFF.
WALL SWITCH:	1. Turn ON Wall Switch If not already ON 2. Load should Turn ON 3. Turn Wall Switch OFF 4. Load will Turn OFF

TROUBLESHOOTING

CONDITION	ACTION
Green LED is OFF	• Check Normal Power Input Wiring (Black and Red Wires) and Voltage.
Red LED is OFF but Load is OFF	• Check Bulbs and Ballast. • Check Load Wiring (Blue Wire and Load's Neutral). • Replace Unit. (Assuming N/C Contact is Used).
Load is ON but Red LED is ON	• Replace Unit. (Assuming N/C Contact is Used).
Red LED does not Turn OFF and Load does not Turn ON when being tested	• Check Bulbs and Ballast. • Check Wiring Connections if Using a Remote Test Option. • Press Local Test Button on the Unit. • Replace Unit.
Red LED will not Turn ON and Load will not Turn OFF	• Verify Status of Normal Power Input. • Open Wall Switch Input. • Verify That No Test Inputs are Stuck Closed.

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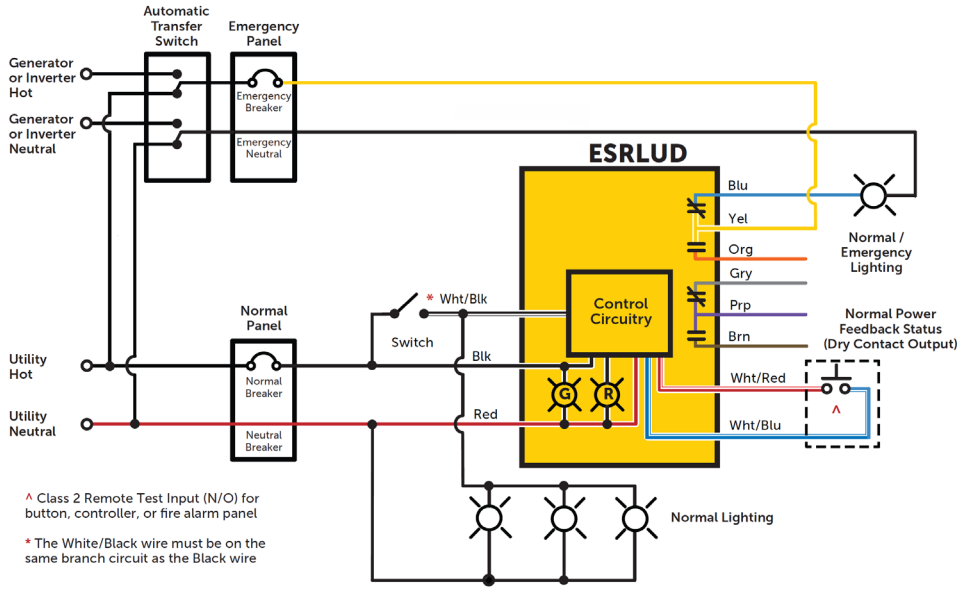
GTD-ESRLUD Generator Transfer Device

WIRING DIAGRAM

USING EMERGENCY LIGHTING AS NORMAL LIGHTING



OVERRIDING A 0-10V DIMMER