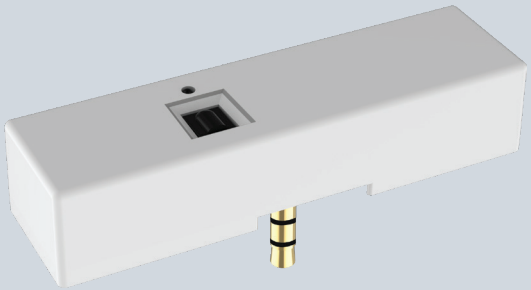
MICROWAVE BI-LEVEL 1P SENSOR
BACKLIT PANEL COMPATIBLE



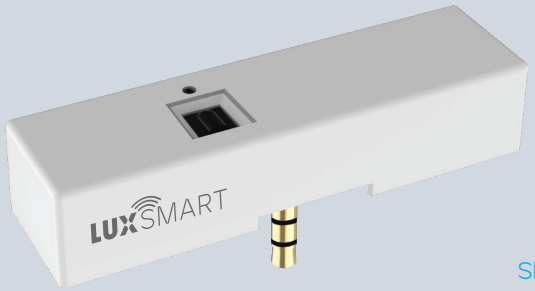
LR24247
AUDIO JACK
STANDARD SENSOR

WORKS WITH:
LR25189
MW BI-LEVEL
REMOTE

LUXSMART BY LUXRITE

WORKS WITH
SMART LIFE

APP CONTROL
NO HUB REQUIRED
VOICE CONTROL



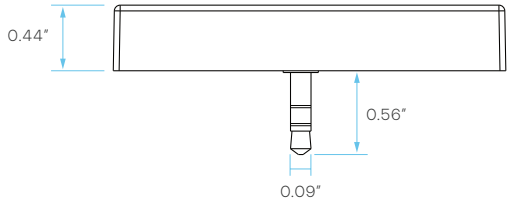
LR24248
AUDIO JACK
SMART SENSOR

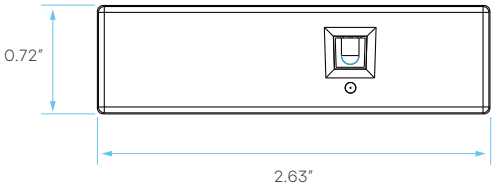
MOTION SENSOR
IP RATING IP-20
12V
DIMMABLE 0-10V
PHOTOCELL SENSOR
3 YEAR WARRANTY

GENERAL

MODEL	DESCRIPTION	POWER	INPUT VOLTS	DIMMING	INSTALL HEIGHT	DETECTION RANGE	DETECTION ANGLE
LR24247	LEDSNS/BPNL/MW/BILEVEL/1P	<0.3W	12V	0-10V	13.12FT	9FT	30-150°
LR24248	LEDSNS/BPNL/MW/BILEVEL/SMRT/1P	<0.3W	12V	0-10V	13.12FT	9FT	30-150°

DIMENSIONS

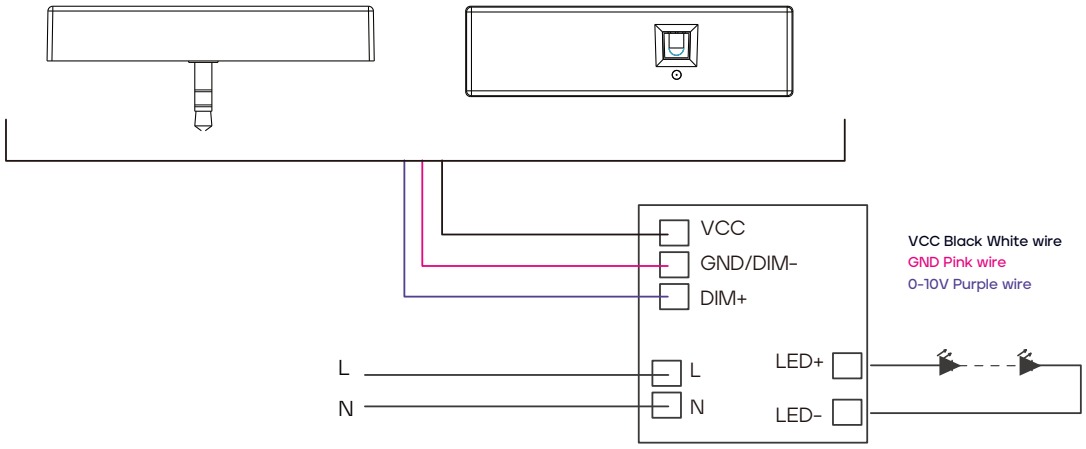




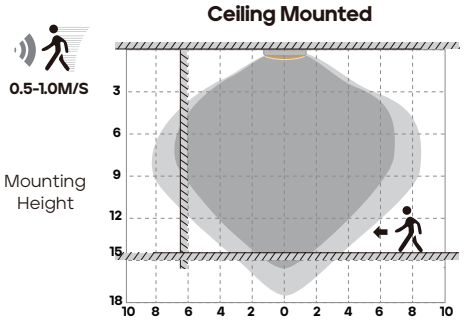
PARAMETERS

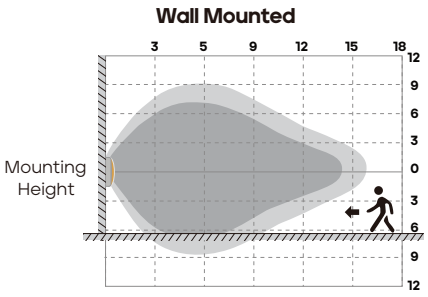
MICROWAVE INFORMATION	Frequency	5.8GHz±75MHz
	Microwave Power	<0.3mW
	Installation Height	4m/13.12 Max.
	Detection Range	≥3m/9ft
	Detection Angle	30-150°(Without Glass Cover)
SENSOR PARAMETER	Detection Area	25%/50%/75%/100%
	Holdtime	Remote control Options：5s/ 30s/ 1min/ 3min/ 5min/ 10min/ 20min/ 30min APP Control Options：5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min/ 25min/30min/ 45min/ 60min/ 90min/ 120min
	Daylight Threshold	Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/ 80Lux/50Lux/30Lux/10Lux/2Lux
	Standby Dimming Level	10%/20%/30%/50%
	Standby Period	Remote control Options：0s/ 10s/ 30s/ 1min/ 5min/ 10min/ 30min/ 60min/+∞ APP Control Options：0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/ 25min/30min/45min/60min/+∞
	Dusk/Dawn Sensing/ Photocell	Daylight threshold as 30lux/ 50lux/ 80lux/ 120lux/ 200Lux/ 250Lux/300Lux/ 350Lux/ 400Lux Standby period as +∞ ; Standby dimming level as 10%/20%/30%
	Daylight Harvesting	1. Adjust "daylight" value higher than 50lux 2. Preset "standby period" 0S 3. Press MW/PIR button 3 times till MW/PIR icons both blicking on LCD screen, daylight harvesting function enabled. (With BLE verison, press DH button, daylight harvesting function enabled.)
BLUETOOTH INFORMATION	Wireless Control Range	>20m/65ft
	APP Download	Supported in both APP Store and Google Play Market
INPUT	Input Range	12VDC
	Voltage Range	10-15VDC
	Current	Remote control Options：<30mA APP Control Options：<40mA
OUTPUT	Signal	DIM 0-10V
	Connection	TipDIM+, RingVCC, SleeveGND
	Stand-by Power	<0.5W
ENVIRONMENT	Working Temp	-25°C~+60°C
	Storage Temp	-40°C~+80°C Humidity: 85% (non-condensation)
CERTIFICATE & STANDARDS	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP20

WIRING DIAGRAM



DETECTION COVERAGE





Highest mounting height is 13.2FT (4m)

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Well Detected Area Possibly Detected Area

IMPORTANT

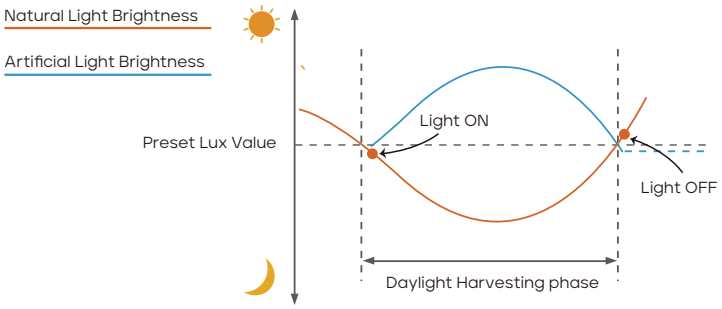
MICROWAVE BI-LEVEL SENSOR

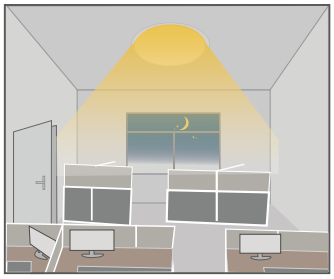
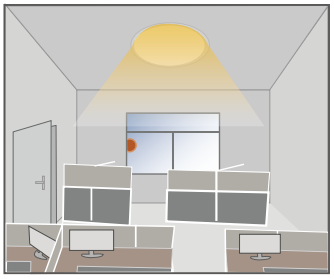
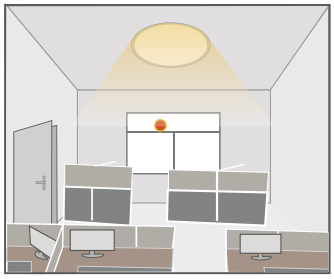
1. Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor.
2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.
3. Adjust sensitivity properly when the sensor is applied in small/narrow/metal-built/with metal spaces.
4. Microwave sensor can't be placed under/inside metal shell; Microwave module must directly face the detection area with edge lower than light fixture.
5. Keep the sensor away from vibration equipments, air-conditioning outlets, smoke extractors alike conditions to avoid unwanted trigger.
6. Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.
7. At least 2m/6.5ft distance between microwave sensors; 1.5m/4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.
8. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
9. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
10. Input power voltage must be stable with float less than 10%.
11. The first time powered ON sensor, light will be ON 100% for about 10S then dims to standby level or OFF.
12. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mountng height and real-life situation.

PERFORMANCE

1. DAYLIGHT HARVESTING

1. Adjust "daylight" value higher than 50lux
2. Preset "standby period" 0S
3. press MW/PIR button 3 times till MW/PIR icons both blicking on LCD screen, daylight harvesting function enabled. (With BLE verison, press DH button, daylight harvesting function enabled.)



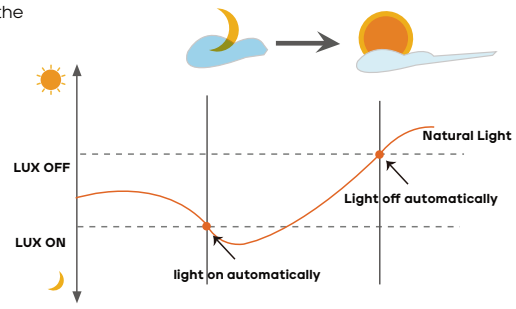





When ambient brightness is lower than preset lux level, sensor will turn on light automatically and keep dimming according to the change of the ambient brightness;
when outside is getting darker, the inside will be brighter, and brighter darker.

Light OFF when ambient brightness becomes higher
than the preset lux level.

2. DUSK/DAWN FUNCTION

Our sensor is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

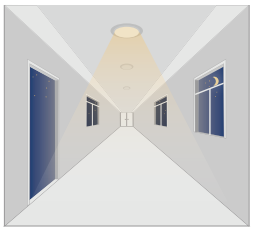


PRECONDITION OF DUSK/DAWN FUNCTION:

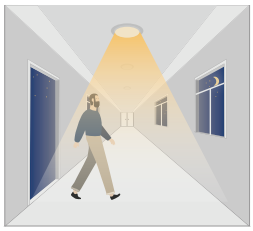
1. Standby period is +∞;
2. Standby dimming level is on 10%,20% or 30%;
3. Daylight threshold is on 30lux/50lux/80lux/120lux/200Lux/250Lux/300Lux/350Lux/400Lux

PERFORMANCE

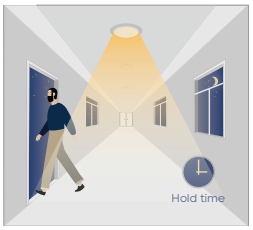
3. WITH DUSK/DAWN FUNCTION



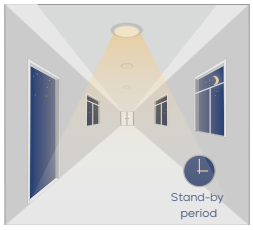
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.



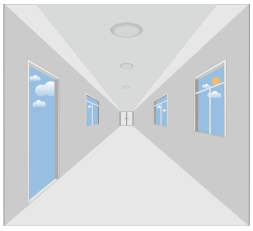
When sensor detects motion or presence it will bring the light level up to 100%.



After motion is no longer detected, fixture remains at 100% for hold time.

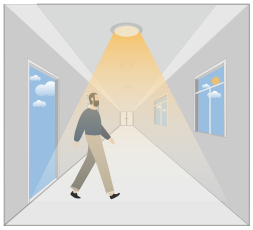


After pre-set hold time period it will dim light to standby dimming level again and always keep it.

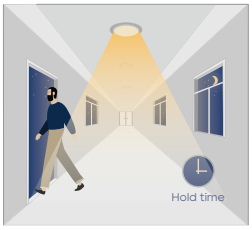


With sufficient ambient brightness, sensor will turn OFF light automatically.

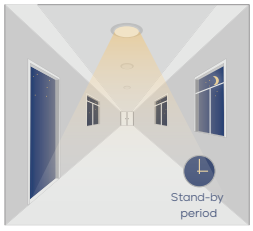
4. WITHOUT DAYLIGHT DISABLED



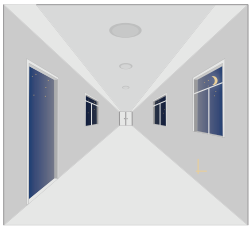
Sensor turns ON light when motion is detected.



Sensor keeps for a hold time period after motion leaves

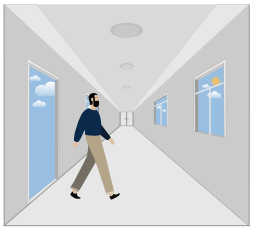


Sensor dims light to standby dimming level after hold time if there is still no motion

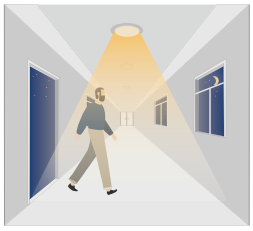


Sensor turns OFF light after standby period

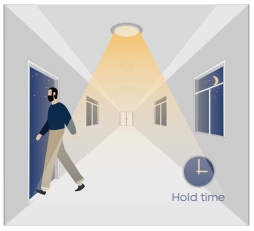
5. WITH DAYLIGHT THRESHOLD



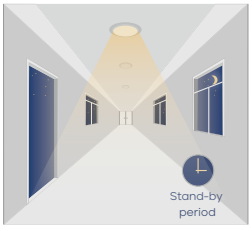
With sufficient daylight the sensor keeps light OFF even motion gets detected



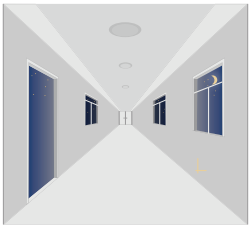
With insufficient daylight, the sensor turns light ON when motion gets detected



After there's no motion detected, the sensor keeps light ON 100% for holdtime.



After hold time, sensor dims light to standby dimming level for standby period. if the standby period has been set as Os, sensor turns light OFF automatically after holdtime.



The sensor turns OFF light automatically after the stand by period when there's no motion detected.