MICROWAVE BI-LEVEL SENSOR
REMOTE & LUXSMART OPTIONS

LR40713
AUDIO JACK
STANDARD SENSOR

LR41706
3-PIN + RECEPTACLE
STANDARD SENSOR

LR25189
MW BI-LEVEL
REMOTE

LUXSMART BY LUXRITE

WORKS WITH SMART LIFE

APP CONTROL · NO HUB REQUIRED · VOICE CONTROL

LR41511
EXTENDED 3-PIN
SMART SENSOR

LR41704
3-PIN + RECEPTACLE
SMART SENSOR

MOTION SENSOR · WET LOCATION RATED IP-65 · 12V · DIMMABLE 0-10V · PHOTOCELL SENSOR · 3 YEAR WARRANTY

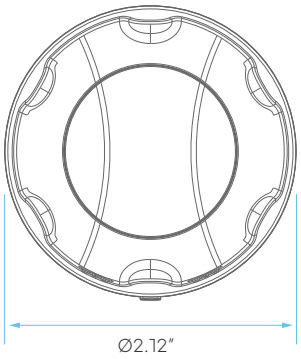
GENERAL

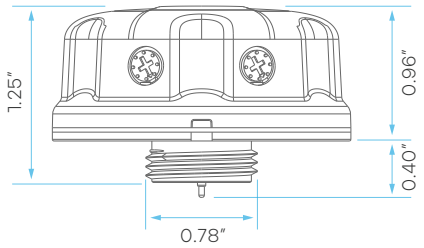
MODEL	DESCRIPTION	POWER	INPUT VOLTS	DIMMING	INSTALL HEIGHT	DETECTION RANGE	DETECTION ANGLE
LR40713	LEDSNS/CN/MW/BiLevel/1P	<0.5W	12V	0-10V	49FT	9FT	30-150°
LR41511	LEDSNS/UFO/MW/BiLevel/SMRT/3XP	<0.5W	12V	0-10V	49FT	9FT	30-150°
LR41704	LEDSNS/LHB/MW/BiLevel/SMRT/3P/RECP	<0.5W	12V	0-10V	49FT	9FT	30-150°
LR41706	LEDSNS/LHB/MW/BiLevel/3P/RECP	<0.5W	12V	0-10V	49FT	9FT	30-150°
LR41510	LEDSNS/UFO/MW/BiLevel/3XP	<0.5W	12V	0-10V	49FT	9FT	30-150°

PARAMETERS

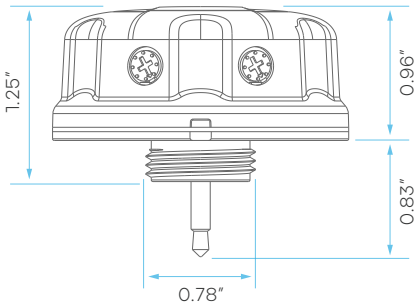
GENERAL	Frequency	5.8GHz±75MHz
	Microwave Power	<0.3mW
	Installation Height	15m/49.21 Max.
	Detection Range	≥3m/9ft
	Detection Angle	30-150°(Without Glass Cover)
	Warranty	5 Years
SENSOR PARAMETER	Detection Area	Remote Control: 25%/50%/75%/100% Rotating switch: Default Setting 100% APP Control Options: 25%/50%/75%/100%
	Holdtime	Remote Control: 5s/30s/1min/3min/5min/10min/20min/30min Rotating switch: 5s/1min/5min/10min APP Control Options: 5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min/ 25min/30min/ 45min/ 60min/ 90min/ 120min
	Daylight Threshold	Remote Control: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux/250Lux/ 300Lux/350Lux/400Lux/Disable Rotating switch: Default Setting Disable APP Control Options: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux/ 250Lux/300Lux/350Lux/400Lux/Disable
	Standby Dimming Level	Remote Control: 10%/20%/30%/50% Rotating switch: 0%/10%/20%/30% APP Control Options: 10%/20%/30%/50%
	Standby Period	Remote Control: 0s/10s/30s/1min/5min/10min/30min/60min/+∞ Rotating switch: Default Setting +∞ 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 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.)
	Warm-up Period	10s
INPUT	Input Range	12VDC
	Voltage Range	10-15VDC
	Current	Microwave APP Control Versions: <50mA
OUTPUT	Signal	ON/OFF, DIM 0-10V
	Stand-by Power	<0.5W
ENVIRONMENT	Working Temp	MICROWAVE:-40°C~+70°C
	Storage Temp	-40°C~+80°C Humidity: 85%(non-condensation)
CERTIFICATE & STANDARDS	Certification	UL LISTED, FCCIC, FCCID
	Environmental Requirements	CE ROHS
	IP Rating	IP65

DIMENSIONS





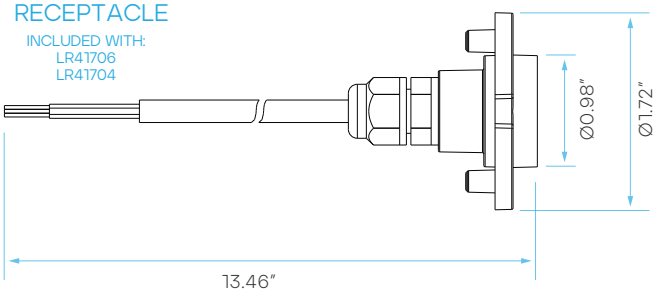
1 & 3 PIN



AUDIO JACK

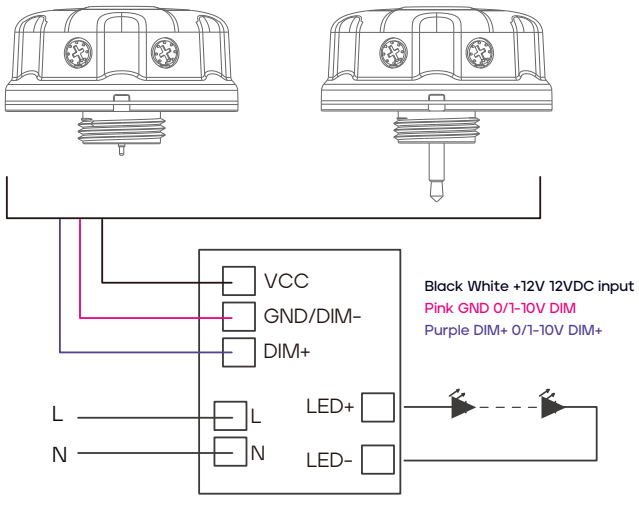
RECEPTACLE

INCLUDED WITH:
LR41706
LR41704



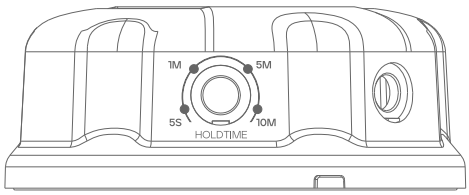
3-pin connection
Wire color:
Black/White
Pink
Purple

WIRING DIAGRAM

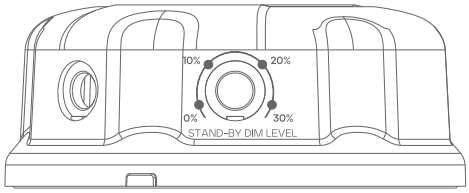


1. The sensor should be installed by qualified electrician and ensure power is OFF before installation.
2. Please read the instruction carefully before using the product and keep it well for other users to read any time.
3. We reserve the right to modify any incorrect text, image and technical parameters.
4. Any unauthorized modification is forbidden. Otherwise all guarantees will be immediately invalid.
5. Product could be optimized without prior notice.

ADJUSTABLE SETTINGS

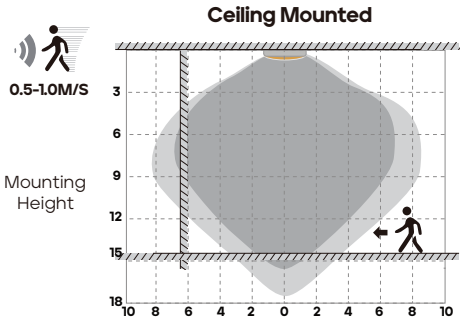


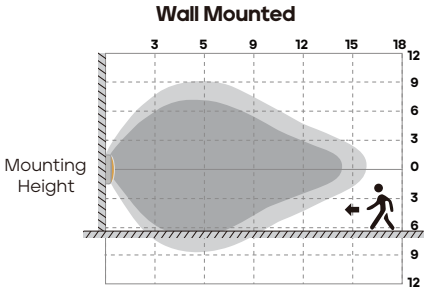
HOLD TIME



STAND-BY DIM LEVEL

DETECTION COVERAGE

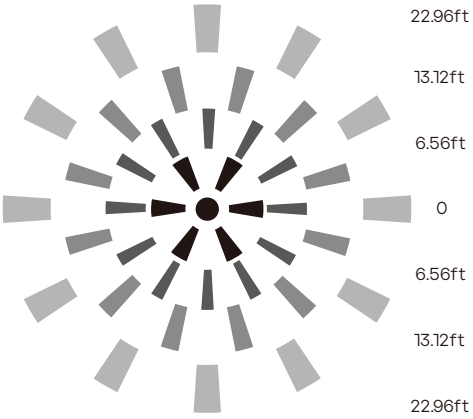




Highest mounting height is 15m

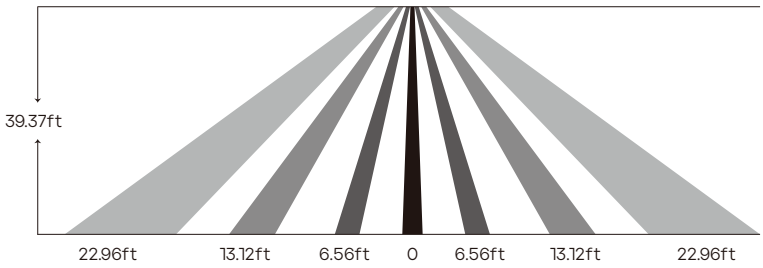
This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Well Detected Area Possibly Detected Area



Mounting Height
<12m/39.37ft Ceiling Mounted

Detection Distance
Radius 3-7m/9.84-22.96ft



IMPORTANT

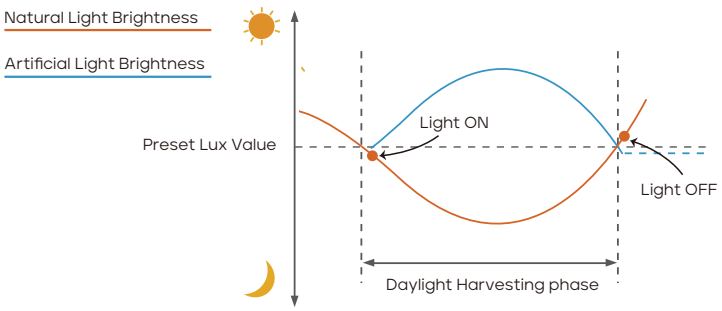
MICROWAVE BI-LEVEL SENSOR

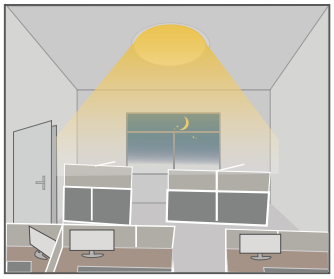
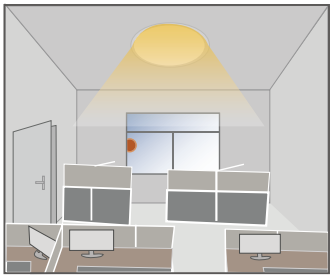
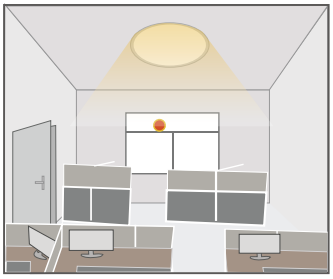
1. Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor.
2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.
3. Adjust sensitivity properly 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.)



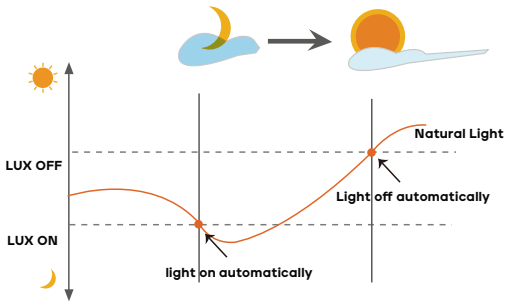





When ambient brightness is lower than preset lux level, sensor will turn on light automatically and keep dimming according to the change of the ambient brightness;
when outside is getting darker, the inside will be brighter, and brighter darker.

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

2. DUSK/DAWN FUNCTION

HD09VR 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.

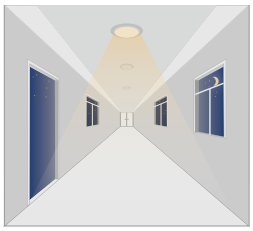


PRECONDITION OF DUSK/DAWN FUNCTION:

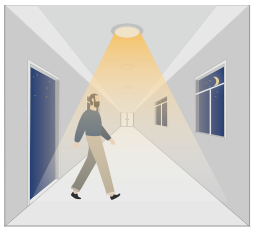
1. Standby period is +∞;
2.Standby dimming level is on 10%,20% or 30%;
3. Daylight threshold is on 30lux/50lux/80lux/120lux/200Lux/250Lux/300Lux/350Lux/400Lux

PERFORMANCE

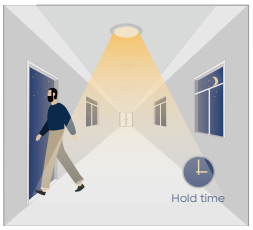
3. WITH DUSK/DAWN FUNCTION



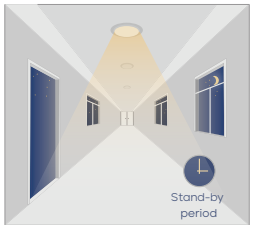
Withinsufficientambient brightness, sensorturnson light and keeps it at standby dimming level even if there is no motion or persence.



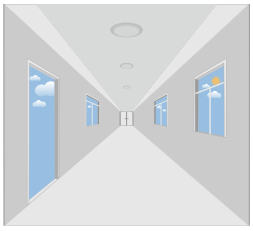
When sensor detects motion or presence it will bring the light level up to 100%.



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

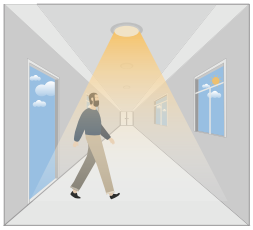


After pre-set hold time period it will dim light to standby dimming level again and always keep it.

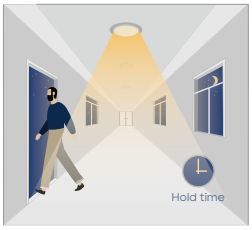


With sufficient ambient brightness, sensor will turn OFF light automatically.

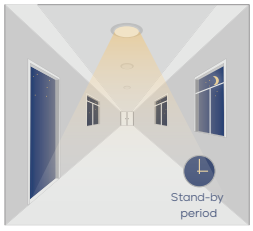
4. WITHOUT DAYLIGHT DISABLED



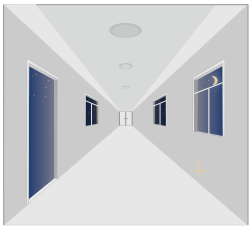
Sensor turns ON light when motion is detected.



Sensor keeps for a hold time period after motion leaves

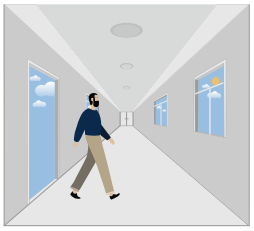


Sensor dims light to standby dimming level after hold time if there is still no motion

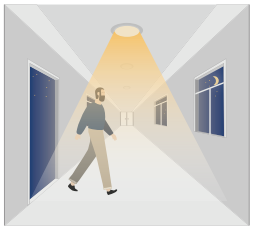


Sensor turns OFF light after standby period

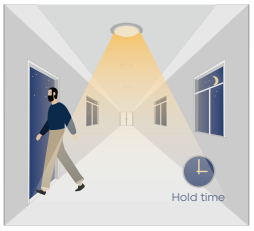
5. WITH DAYLIGHT THRESHOLD



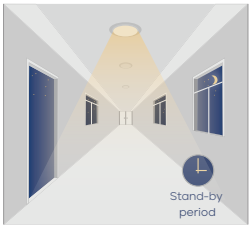
With sufficient daylight the sensor keeps light OFF even motion gets detected



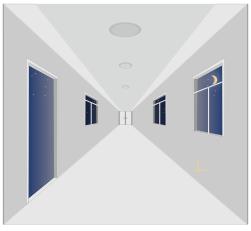
Withinsufficientdaylight, the sensor turns light ON when motion gets detected



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



Afterholdtime, sensordims 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.