ETLIN-DANIELS

INSTALLATION FOR HBRA9 SERIES ROUND HIGH BAY WITH MICROWAVE SENSOR - FLH5-SENMC-12V / PIR SENSOR - HB-SENPIR-12V



SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

⚠ WARNING

CAN ICES-005 (B) NMB-005 (B)

PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION.

- To prevent personal injury or product damage only licensed electricians/personnel should install fixture.
- Do not use any electric generator to test the LED fixture.
- To avoid electric shock or component damage disconnect power before attempting installation or servicing.
- This product must be installed in accordance with the National Electric Code (NEC)/Canadian Electrical Code (CEC) and all applicable Federal, State/Provincial and Local Electric Codes and Safety Standards.
- Disconnect fixture and allow cooling prior to servicing.
- Any alteration or modification of this product is expressly forbidden as it may cause serious personal injury, death, property damage and/or product malfunction.
- To prevent product malfunction and/or electrical shock this product must be properly grounded.

⚠ NOTICE

- Please wear gloves to avoid injury before installation.
- If any smoke or spark of the wire happens, please turn off the power immediately and notify relevant personnel.
- Please use the listed waterproof strain relief bushing when connecting the supply cord to the outlet box.

⚠ ATTENTION

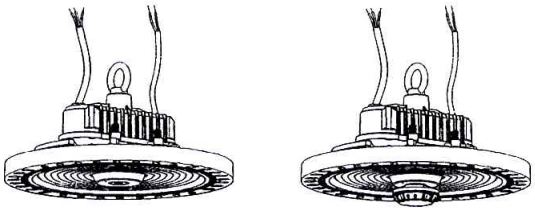
IP65 Wet Location rated.

- Please check if there is any damage during shipping. If so, please contact manufacturer timely.
- Please read the installation instruction carefully to check whether all the accessories are available. After confirmation, install the led light according to installation steps

UL CERTIFIED SAFETY US*CA SÛRETÉ US*CA E474174

NSF

WIRING CONNECTION



This LED high bay fixture can be equipped with an optional DC motion sensor and is available with 0/1-10V dimming function.

WIRING INSTRUCTION:

ACL: Black / Borwn, ACN: White/ Blue, Ground: Green / Yellow. Dim+: Purple, Dim-: Pink, AUX: Black / White (As for the wire color of Dim+ and Dim-, please check the ficture label.)

*The product cannot be connected to a dimming device when equipped with a motion sensor.

HOOK MOUNT

1. Securely screw the hook into the fixture. (Figure 1)
2. Suspend the fixture from the ceiling hook or chain (Figure 2)
3. Upon completion of the installation, adhere to local wiring regulations when connecting the fixture's wire to the mains. Ensure a stable connection and implement proper protection measures for the connection.

FIG .1

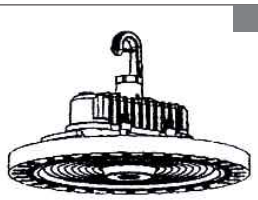
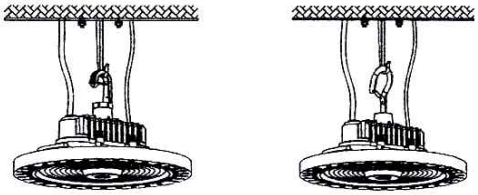


FIG.2



CEILING MOUNT

FIG .3

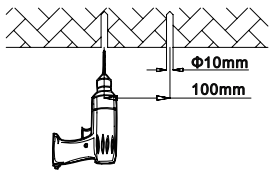


FIG .4

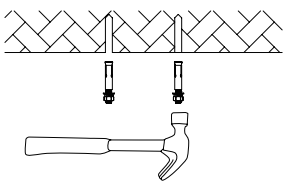


FIG .5

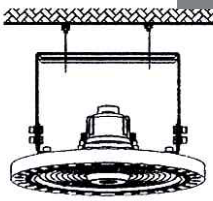


FIG .6

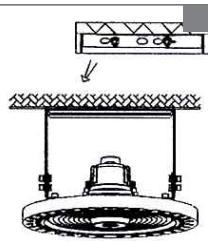
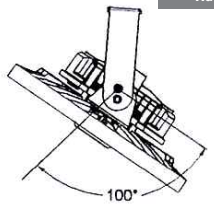


FIG .7



1. Use a marking pen or a sharp tool to mark the mounting surface and then proceed to drill (Figure3)
2. Hammer in the screw into the drilled hole (Figure4).
3. Align the bracket hole with the screw hole (Figure5) Gently push the fixture to one side and securely fasten it in place (Figure6).
4. Upon completion of the installation, adhere to local wiring rules when connecting the fixture's wire to the mains. Ensure a stable connection and provide proper protection to the connection. Users can vertically adjust the fixture 50° to the left or right by adjusting the bracket screws (Figure7)

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SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

1/2" NPT MOUNT

1. Loosen the nuts on the 1/2" NPT (Figure8)
2. Insert 1/2" NPT stem into the bracket hole (Figure9)
3. Tighten the nuts back into place (Figure10).
4. Upon completing the installation, adhere to local wiring rules when connecting the fixture's wire to the mains. Ensure a stable connection and provide proper protection to the connection.

FIG .8

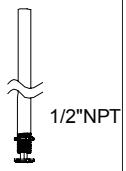


FIG .9

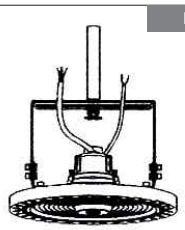
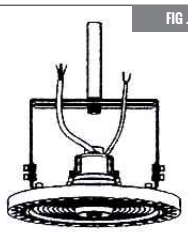


FIG .10

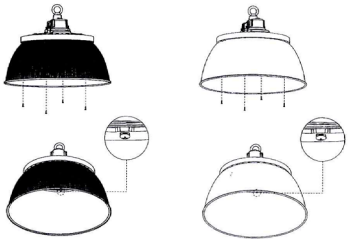


WIRE GUARD



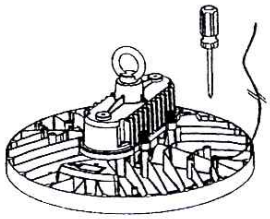
1. Place the wire guard onto the fixture and secure it with screws

ALUMINUM / PC REFLECTOR



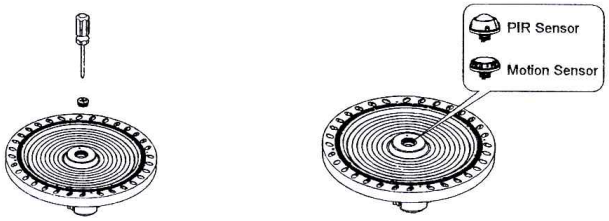
1. Lock the PC reflector or aluminum reflector onto the fixture using screws.

SAFETY ROPE INSTALLATION



1. Put one end of the safety rope on the fixing hole of the fixture, the screw passes through the safety rope, then use a screwdriver to tighten the screw.

DC MOTION SENSOR / PIR SENSOR INSTALLATION



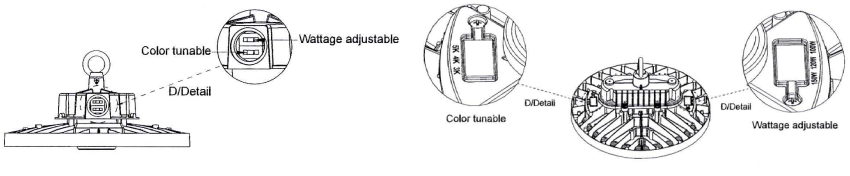
1.Use a screwdriver to remove the 1/2-inch plug from the sensor.
2.Twist-lock the DC sensor onto the base, and use a remote control to adjust the settings.

CCT AND WATTAGE ADJUSTMENT

Remove the plug and adjust the switches as directed to select the desired CCT and wattage. Once set, screw the plug back into place.

Default Settings:
HBRA9-M150WC0MB-C9-10B: 150W - 5000K
HBRA9-M240WC0MB-C9-10B: 240W - 5000K
HBRA9-M230WC0MB-C9-10B: 300W - 5000K

FIG .12



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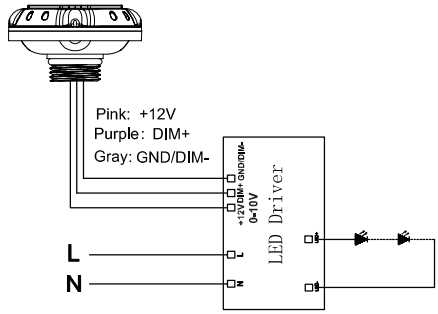
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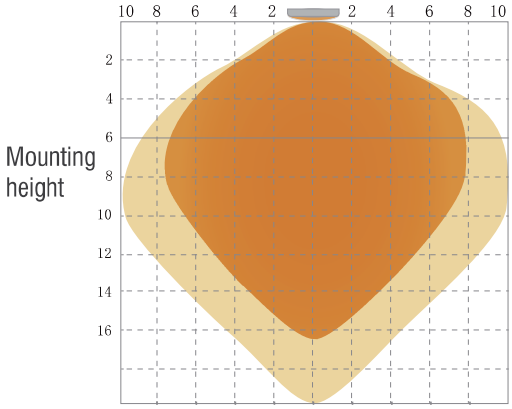
MICROWAVE SENSOR SPECIFICATION

FLH5-SENMC-12V MICROWAVE SENSOR WIRING DIAGRAM

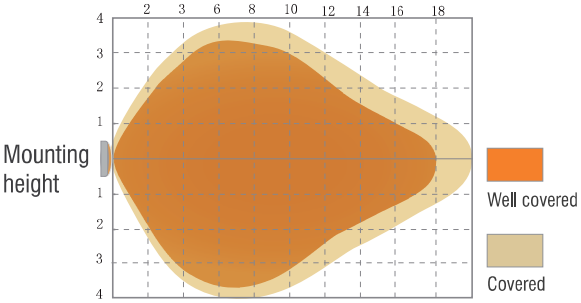


BUTTON NAME	DESCRIPTION
Voltage	12 ± 2VDC
Current	<30mA
Output	Dim 0-10V
Standby Power	<0.5W
Brightness	0% -100% / Quick Setting: 70% / 80% / 90% / 100%
Sensitivity	20% / 50% / 75% / 100%
Hold Time	10s / 1 min / 10 min / 30 min
Daylight Threshold	10 Lux / 30 Lux / 50 Lux / 100 Lux / Disable
Standby Time	1 min / 30 min / 60 min / +∞
Standby Dimming Level	10% / 20% / 30% / 50%
Microwave Frequency	5.8GHz ± 75MHz
Microwave Power	<0.5mW
Detection Angle	150° (wall mounted) / 360° (ceiling mounted)
Control Line	Pink:+12V: Purple: Dim+; Gray:GND/Dim-
Mounting Height	Max. 15m (ceilling mounted)
Detection Range	Max.ø15m (ceilling mounted) Max. .ø20m (wall mounted)
Operating Temp	-30°C~+60°C
IP Rating	IP65

CEILING MOUNTED

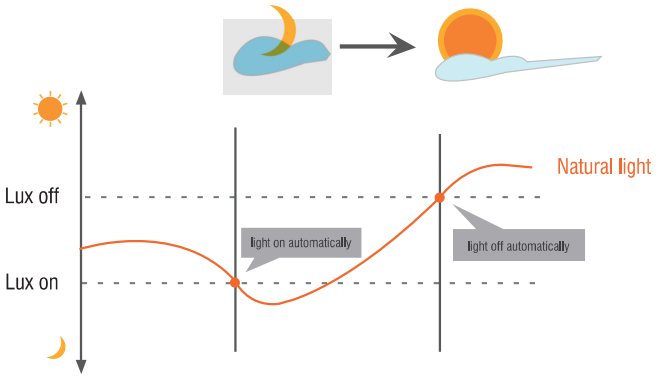


WALL MOUNTED



Adopted dual PD technology 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.

Preconditions to use the Lux-off function:
1. Standby period is + ∞;
2. Standby dimming level is on 10%, 20%, 30% or 50%
3. Daylight threshold is on 0Lux, 30Lux, 50Lux or 100Lux.



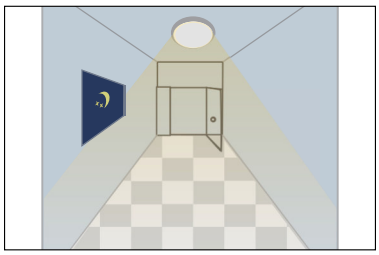
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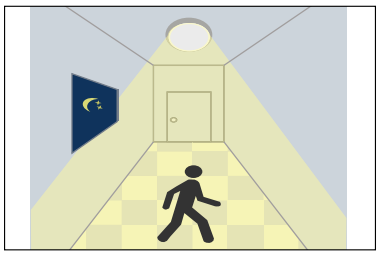
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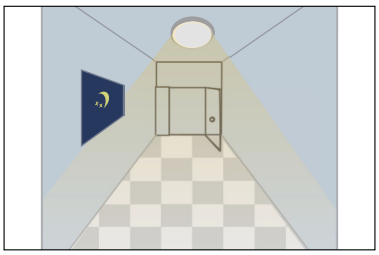
APPLICATION - LUX ON / OFF



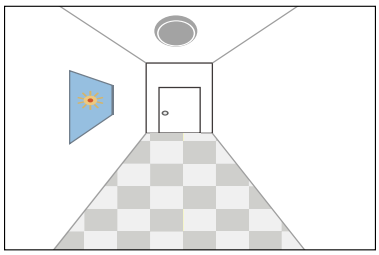
Light automatically on when ambient brightness is lower than preset lux level.



With insufficient ambient brightnes, light dims to 100% when motion detected.



Light dims to standby level if no motion detected after hold time.



Light off when ambient lux level is higher than preset lux amount.

REMOTE CONTROL APPLICATIONS



Display Area

Brightness (70% 80% 90% 100%)
Daylight (10lx / 30lx / 50lx / 100lx)
Standby Dim (10% 20% 30% 50%)

Hold Time (10S / 1 min / 10 min / 30 min)
Sensitivity (20% / 50% / 75% / 100%)
Standby Dim (+ ∞ / 1 min / 30 min / 60 min)

Button Setting Area

ON/OFF (Long press the "ON/OFF button until the brightness indicator light is on (First-row). Press to turn on or tun off the fixture.)

BRIGHTNESS (Press to adjust dimming level 70% / 80% / 90% / 100%)

SEND (Press to save setting after each change. The indicator light confirms the save setting)

HOLD TIME (Press to hold time 10s / 1 min / 10 min / 30 min)

DAYLIGHT (Long press the button until the daylight indicator light is on, press to adjust daylight threshold 10lx / 30lx / 50lx / 100/x)

SENSITIVITY (Press to adjust sensitivity 20% / 50% / 75% / 100%) Note: PIR Motion Sensor have no sensitivity setting, the default 100%.

STANDBY DIM (Press to adjust standby dimming level 10% / 20% / 30% / 50%)

STANDBY TIME (Press to adjust standby time + ∞ / 1 min / 30 min / 60 min)
Note: "+ ∞" means unlimited standby time, and the light control mode is the light control priority mode, otherwise it's the light threshold mode.

RESET (Press "RESET" button, products with DIP switch will be controlled by DIP switches; Otherwise all the setting will change, which is Brightness 70% / Hold Time 10s / Sensitivity 20% / Daylight Threshold disabled / Standby Dimming Level 10% / Standby Time + ∞

TEST The button "TEST" is for testing purposes after debugging. Pressing the button, the sensor goes to test mode (hold time is only 3s).

Press to increase brightness (0%-100%)

Press to reduce brightness (100%-0%)

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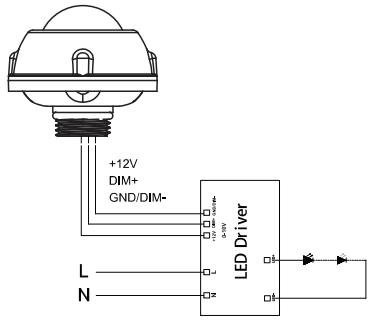
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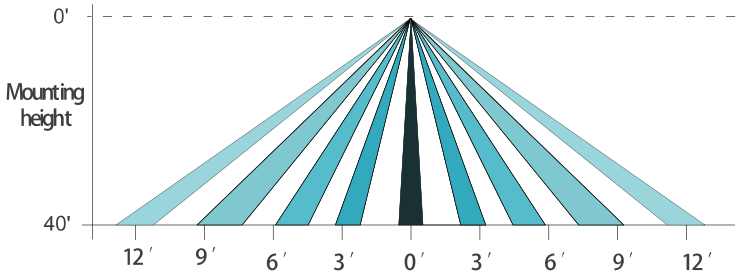
PIR SENSOR SPECIFICATION

HB-SENPIR-12V PIR SENSOR WIRING DIAGRAM

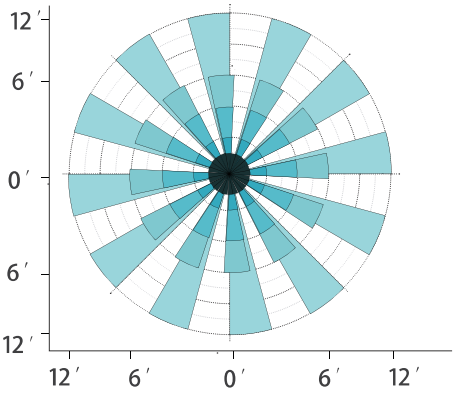


BUTTON NAME	DESCRIPTION
Voltage	12 ± 2VDC
Current	<30mA
Output	Dim 0-10V
Standby Power	<0.5W
Brightness	0% -100% / Quick Setting: 70% / 80% / 90% / 100%
Hold Time	10s / 1 min / 10 min / 30 min
Daylight Threshold	10 Lux / 30 Lux / 50 Lux / 100 Lux / Disable
Standby Time	1 min / 30 min / 60 min / +∞
Standby Dimming Level	10% / 20% / 30% / 50%
Detection Angle	≤ 120° (wall mounted), 360° (ceiling mounted)
Mounting Height	≤ 12m / 39.37 ft. (ceiling mounted)
Detection Range	Radius 2-4m / 6.58 - 13.12 ft. (ceiling mounted)
Operating Temp	-30°C~+60°C
IP Rating	IP65 (Mounted on the light fixture)
Warm-up Period	50S

SIDE VIEW

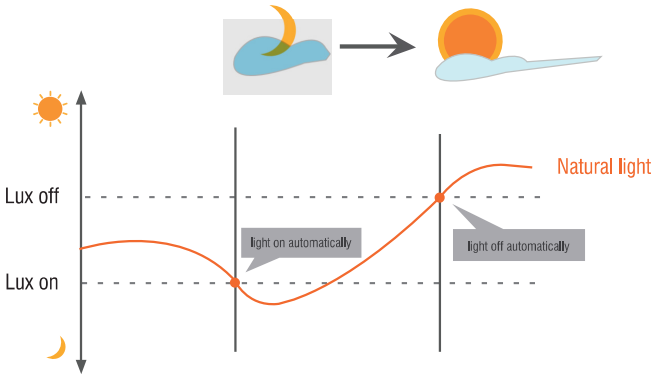


TOP VIEW



Adopted dual PD technology 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.

Preconditions to use the Lux-off function:
1. Standby period is + ∞;
2. Standby dimming level is on 10%, 20%, 30% or 50%
3. Daylight threshold is on 0Lux, 30Lux, 50Lux or 100Lux.



NOTE!

Deafault setting: Brightness:100%, Hold time: 1min, Stand-by dimming level: 20%, Stand-by time: 1min, Sensitivity:100% (non-adjustable), Daylight: Disable

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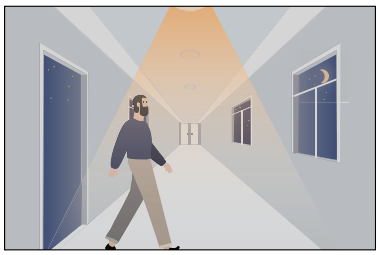
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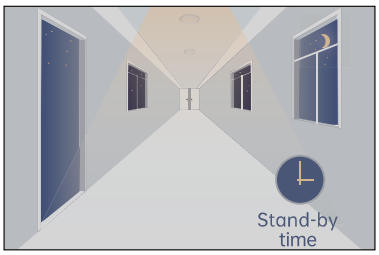
APPLICATION - LUX ON / OFF



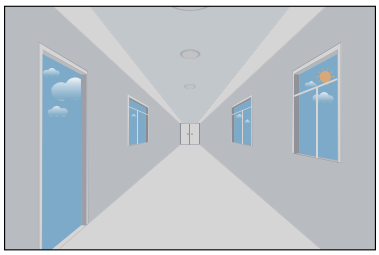
Light automatically on when ambient brightness is lower than preset lux level.



When ambient brightness is insufficient, the light increases to 100% when motion is detected.

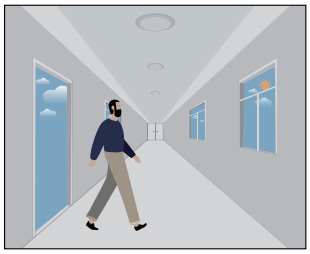


If no motion is detected after the hold time, the light dims to the standby level.

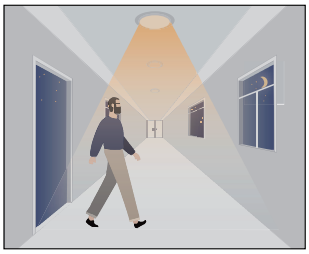


The light turns off when ambient brightness is higher than the preset lux level.

CORRIDOR FUNCTION - BI-LEVEL DIMMABLE



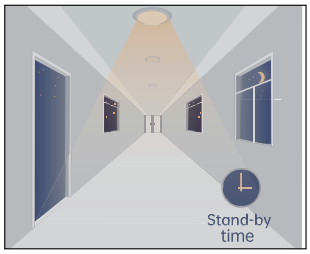
Light turns on automatically when ambient brightness is lower than the preset lux level.



When ambient brightness is insufficient, the light increases to 100% when motion is detected.



After no motion is detected, the sensor keeps the light at the set brightness for the hold time.

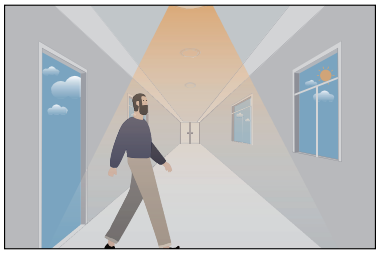


If no motion is detected after the hold time, the light dims to the standby level.

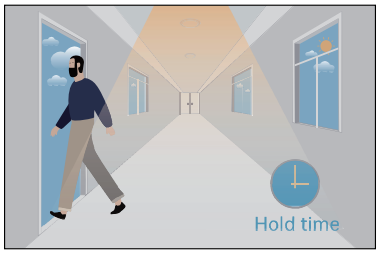


The sensor turns the light off automatically after the standby time if no motion is detected.

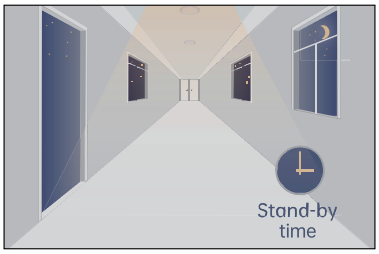
DAYLIGHT DISABLE



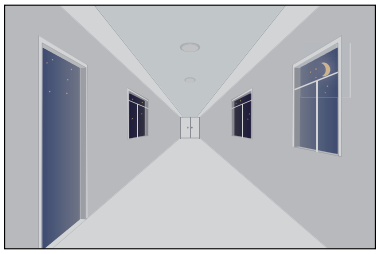
Light turns on when motion is detected.



The sensor keeps the light on for the hold time after motion stops.



If no motion is detected after the hold time, the light dims to the standby level.



The sensor turns the light off automatically after the standby time if no motion is detected.

INSTALLATION PRECAUTIONS

1. Turn off power at the circuit breaker before installing the sensor.
2. Do not allow bare wires to remain exposed.
3. Assemble all necessary mounting accessories before installation.
4. Ensure the sensor lens is positioned lower than the edge of the fixture and away from heating components.

APPLICATION ENVIRONMENT

1. Do not install outdoors, as outdoor temperatures may affect performance.
2. Avoid installing in locations with sudden temperature changes or strong airflow.
3. Do not place shelves or objects between the sensor and the detection area.

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INSTALLATION FOR HBRA9 SERIES ROUND HIGH BAY WITH MICROWAVE SENSOR - FLH5-SENMC-12V / PIR SENSOR - HB-SENPIR-12V



ATTENTION!

1. If you want to send a setting, it will only work if the remote is on. If you don't press any button within 10 seconds, the indicator light will go out.
2. When using "ON / OFF" button, the rest buttons except the "ON / OFF", "BRIGHTNESS" and "SEND" buttons will be disabled.
3. When using "TEST" button, the rest buttons except the "TEST", "SENSITIVITY" and "SEND" buttons will be disabled.
4. Every change needs to press "SEND" button, it will be saved.
5. Because of the power supply Dimming ratio difference, when using different power, "BRIGHTNESS" and "STANDBY DIM" adjust percentage of the power will have difference with the measured power.
6. Light control priority mode: the "ON/OFF" illumination values of each gear are 10lx / 50lx, 30lx/100lx, 50lx/150lx and 100lx/200lx.
7. Light threshold mode: the "ON/OFF" illumination values of each gear is 10lx/30lx/50lx.100lx, when the light intensity is less than set value and the movement of someone or an object is induced, the light is turned on to the preset brightness.

OVERVIEW

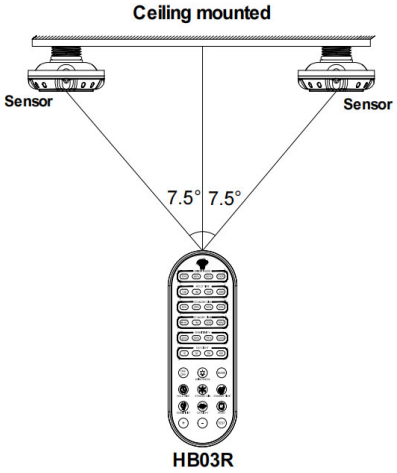
The remote control Wireless IR Configuration Tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors. The tool enables device to modify via push button without ladders or tools.

The remote control uses IR communication to send sensor settings at mounting height up to 50 ft. The device can be display previously established sensor parameters. Send new parameter profiles.

SCHEMATIC DIAGRAM OF REMOTE CONTROL RANGE

1. Because the control angle of infrared remote control is fixed, if the sensor installation distance is too close, the remote control will control two sensors at the same time.
2. When the installation height changes, the installation distance can be adjusted appropriately to avoid the adjacent sensors being controlled by the remote controller at the same time. See the table below fo reference distance.

Mounting Height	Sensor Mounting Distance
15m	4m
12m	3.2m
9m	2.4m
6m	1.6m
3m	0.8m



WARNING!

1. Remove the batteries from compartment if the remote will not be used in 30 days.
2. When setting, there should be no object blocking between the remote control and the sensor, otherwise the remote may fail to send data.

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