ETLIN-DANIELS



INSTALLATION MANUAL FOR HBL6SP HIGH BAY SERIES WITH MICROWAVE SENSOR BASE

SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

⚠ WARNING

PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION.

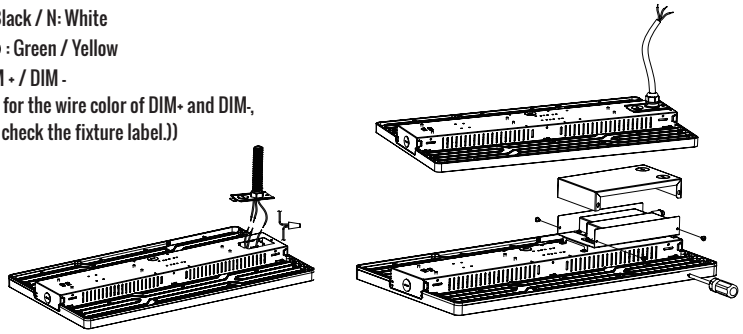
- To prevent personal injury or product damage only licensed electricians/personnel should install fixtures.
- Do not use any electric generator to test the LED fixture.
- To avoid electric shock or component damage disconnect power before attempting installation or servicing.
- Please wear gloves to avoid injury before installation.
- 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 the fixture and allow cooling before servicing.
- Any alteration or modification of this product is expressly forbidden as it may cause product malfunction, property damage, or personal injury.
- Please check if there is any damage during shipping. If so, please contact the manufacturer timely.
- To prevent product malfunction and/or electrical shock this product must be properly grounded.
- All parts must be used as indicated in the instructions. Do not substitute any parts, leave parts out, or use any parts that are worn, damaged or broken.
- Selected fixture voltage must match supply line voltage.
- Please keep away from the corrosive substance, and keep the fixture dry and clean.
- Please use listed strain relief bushing when connecting the supply cord to the outlet box.

UL CERTIFIED E474174

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

WIRING CONNECTION

L: Black / N: White
⏚ : Green / Yellow
DIM + / DIM -
(As for the wire color of DIM+ and DIM-, pls check the fixture label.))



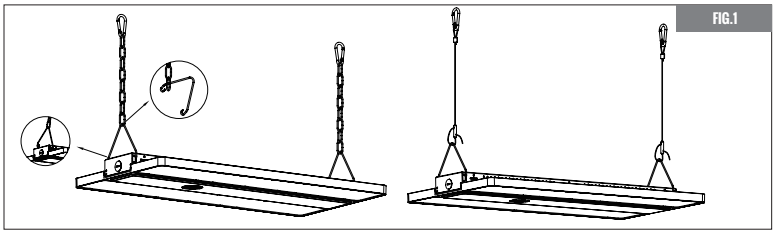
This LED high bay light can be equipped with an optional DC motion sensor, and is available with 0/1-10V dimming function, with the following 2 dimming solutions:
0/1-10V dimming, Intelligent dimming with DC motion sensor.
Please use dimming+, dimming-(DC 10V)marking leads to connect outside dimmer.
The pink wire and black wire with shrinkable tubing shall not be damaged (no connection).
Class 1 Wiring Only.
Please ensure a cumulative leakage current of less than 3.5 mA on the control circuit.

Please choose the appropriate dimming way according to your needs. You can also choose not to use this function.
*The product can not be connected to a dimming device when it's equipped with Motion Sensor.

HANGING INSTALLATION

1. Hook up the chain (Figure 1).
2. Connect the chain with fixture (Figure 1).
3. Fix the chain on the rail, adjust the chain length as per need (Figure 1).
4. After fixed , choose suitable wiring knock out, connect the wires according to local standard and code.

FIG.1



3/4" NPT INSTALLATION

1. Mount the bracket on 3/4"NPT (Figure 2).
2. Lock fixture on the bracket (Figure 3).
3. Connect the wires according to local standard and code.
4. Lock side brackets with screw driver (Figure 4).

FIG .5

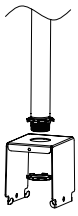


FIG .5

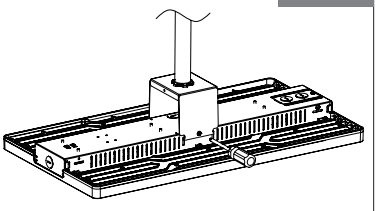
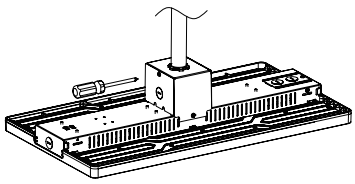


FIG .5



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SURFACE MOUNTING

1. Mount the bracket on the rail or ceiling; (Figure 5).
2. Assemble the lamp on the bracket and fix it with screws (Figure 6).
3. After mounting, choose suitable wiring knock out and connect the wires according to local standard and code

FIG.5

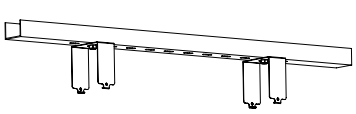
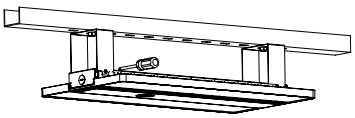


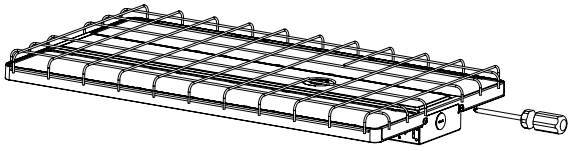
FIG.6



WIRE GUARD INSTALLATION

Place the wire guard on the lamp and fix it with screws. (Figure 7)
(Please purchase the correct size wire guard from manufacturer)

FIG.7



DC MOTION SENSOR INSTALLATION

CONNECT THE WIRES TO THE WIRING DIAGRAM

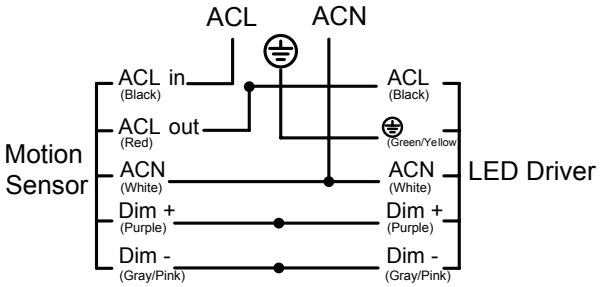


FIG.8

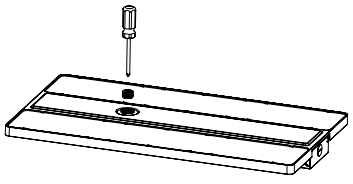
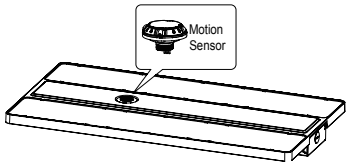


FIG.9



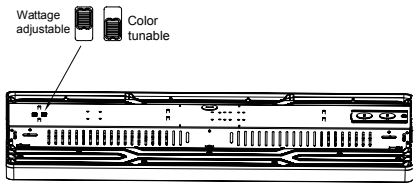
1. Use a screwdriver to remove the 1/2 plug from the sensor; (Figure 8).
2. Twist-lock the DC sensor to the base to make it work properly, use a remote control to adjust the working mode as per demand (Figure 9).

WATTAGE AND COLOR ADJUSTMENT

Two options available for adjusting CCT and Wattage:
- Utilize the Wattage adjustment switch
- Use the CCT tunable switch

Default Settings:
HBL612SP: 150W - 5000K
HBL615SP: 220W - 5000K

FIG .10



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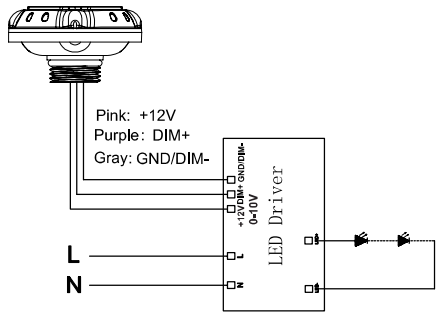
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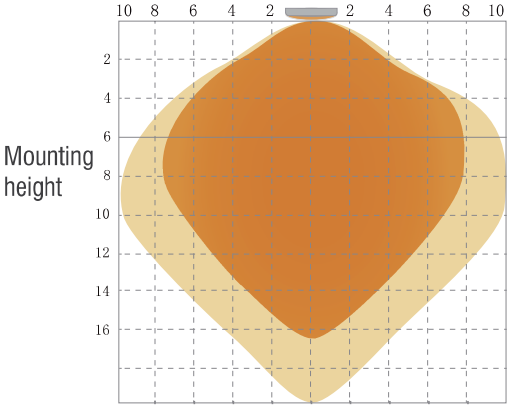
SENSOR SPECIFICATION

SENSOR WIRING DIAGRAM

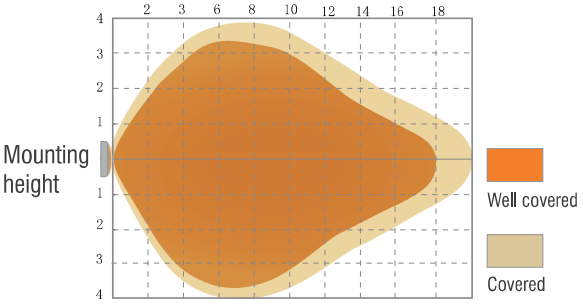


BUTTON NAME	DESCRIPTION
Voltage	12 ± 2VDC
Current	<30mA
Output	Dim 0-10V
Standby Power	<0.5W
Brightness	0% -100% / Quick Setting: 70% / 80% / 90% / 100%
Sensitivity	20% / 50% / 75% / 100%
Hold Time	10s / 1 min / 10 min / 30 min
Daylight Threshold	10 Lux / 30 Lux / 50 Lux / 100 Lux / Disable
Standby Time	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

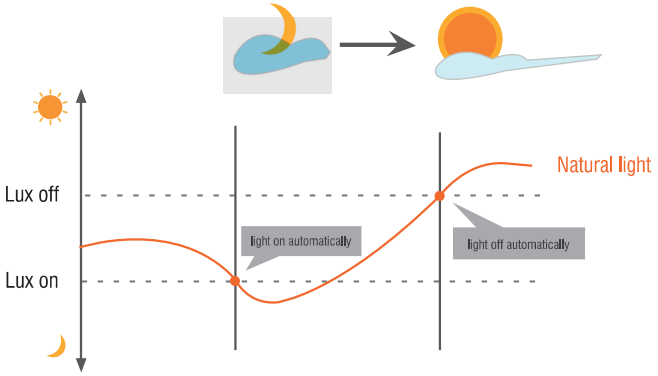


WALL MOUNTED



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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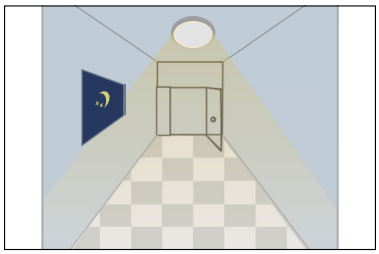
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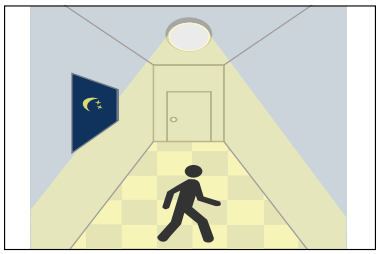


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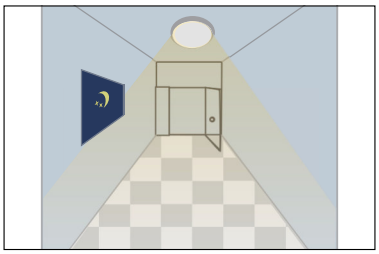
APPLICATION - LUX ON / OFF



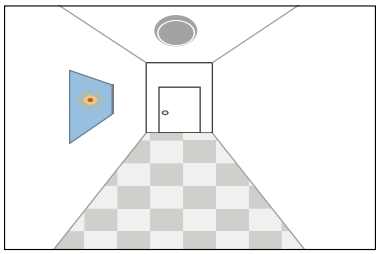
Light automatically on when ambient brightness is lower than preset lux level.



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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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

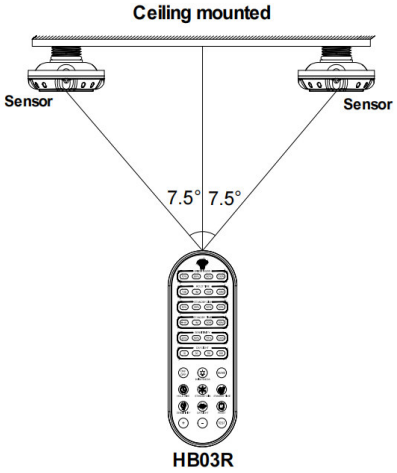
The remote control Wireless IR Configuration Tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors. The tool enables device to modify via push button without ladders or tools.

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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