ETLIN-DANIELS

INSTALLATION FOR FLH5S-M HIGH WATTAGE FLOOD SERIES

SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

⚠ WARNING

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

PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION.

• Do not use any electrical generator to test LED fixture.
• To avoid risk of fire or electrical shock, this product should be installed and maintained by a qualified electrician, in accordance with all national and regional electrical codes.
• Please turn off power before installation or maintenance.
• Proper earth grounding is required to ensure safety.
• After installation, ensure fixture is in correct vertical position.
• Please wear gloves to avoid injury during installation.
• If there is any presence of smoke or fire after installation, please turn off power immediately and advise relevant personnel.

ATTENTION

1. PLEASE VERIFY IF THERE IS ANY DAMAGE DURING SHIPPING.
If yes, please contact the manufacturer prior to starting installation.

2. Please read the installation guide carefully to check whether all accessories are included. After confirmation, install the fixture according to Installation Steps.

INSTRUCTION

1 This fixture offers 3 types of dimming function.
2 Constant Current can be achieved by 0-10VDC and 1-10VDC dimming.
3 PWM (Pulse-Width Modulation) Signal dimming
4 Variance of resistance unit dimming
NOTE: Please choose the appropriate dimming way according to your needs. You can also choose to ignore this function. Choose the wire connection option, dimming option and install option according to your needs and the LED fixture being installed.

PARAMETERS

Part No.	Input Voltage	Frequency	Power	Rated Current
FLH5S-M150WC0-5-PBS-DB	AC 120-347V	50/60Hz	100W/120W/150W	1.5A
FLH5S-M300WC0-5-PBS-DB			200W/250W/300W	3.0A

Installation of different NEMA Type Distribution Lenses
PLEASE IGNORE ALL LENS CHANGE INSTRUCTIONS IF YOU ARE NOT CHANGING THE NEMA BEAM PATTERN ORIGINALLY SUPPLIED.

(Please note that lens changes should be performed prior to installing fixture). Note this fixture comes with a NEMA Type V Lens installed - Medium-wide distribution. We also offer optional NEMA Type II, Type III and Type IV Lens options.
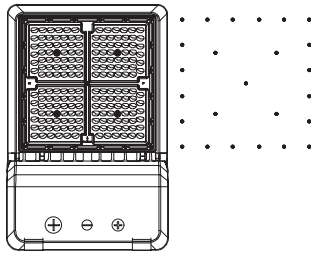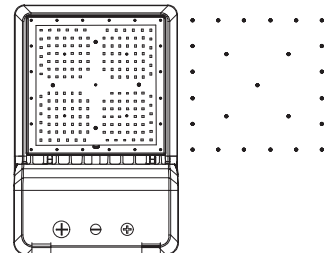

Figure 1

1. Uninstall all screws from the existing lens.
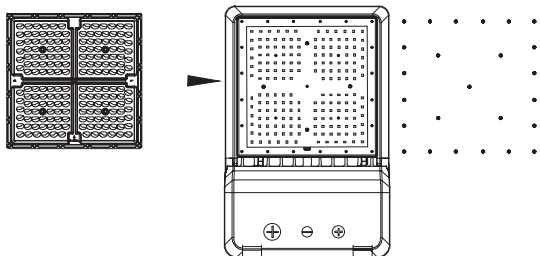

Figure 2

2. Remove the original lens.
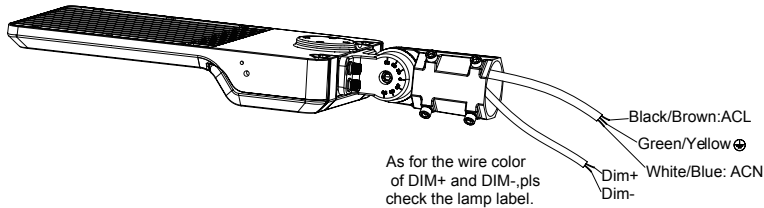

Figure 3
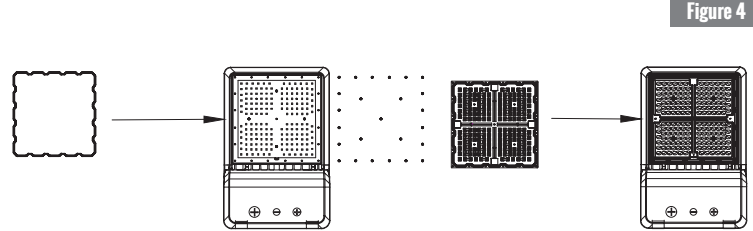
3. Assemble the new lens and gasket.

Figure 4

4. Screw in all screws when putting in new lens - maintain IP rating.

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WIRING DIAGRAM:

Black/Brown:ACL
Green/Yellow⏚
White/Blue: ACN

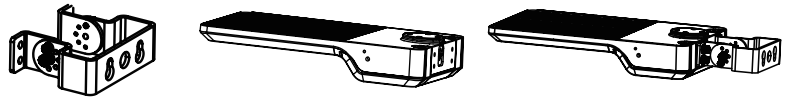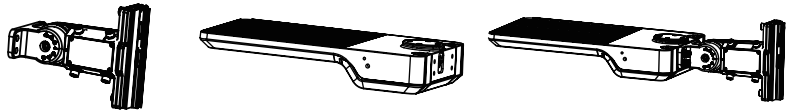As for the wire color of DIM+ and DIM-,pls check the lamp label.
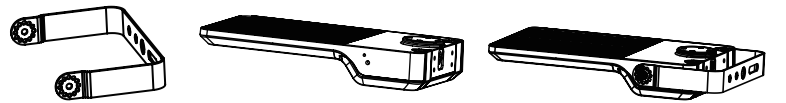
Dim+
Dim-

OPTIONAL MOUNTING BRACKETS

FLH5S-M-TR - Trunnion Mount

FLH5S-M-UM - Universal Mount

FLH5S-M-YM - Yoke Mount

Trunnion Bracket Mounting

1. Remove the bracket mounting screws on the fixture and pass the wires through the bracket.
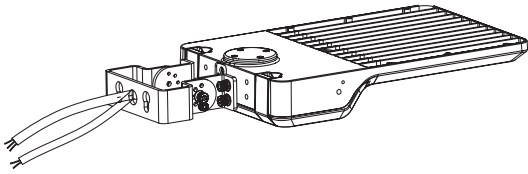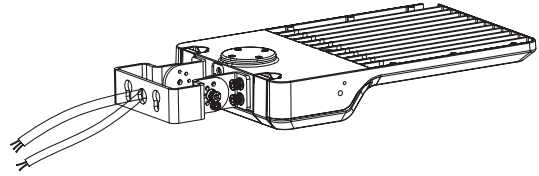
Figure 1

2. Install the bracket on the fixture.

Figure 2

Universal Bracket Mounting

1. Remove the bracket mounting screws on the fixture, open the side lid of the bracket and pass the wires through the bracket.
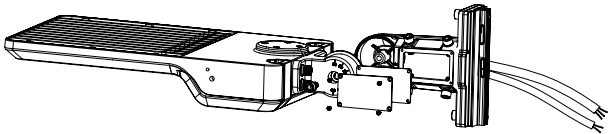
Figure 1

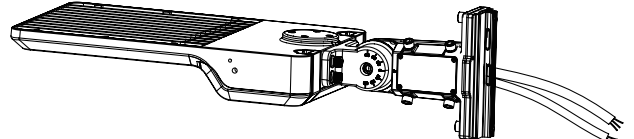2. Install the bracket on the fixture, cover the side lid and tighten screws.

Figure 2

Yoke Bracket Mounting
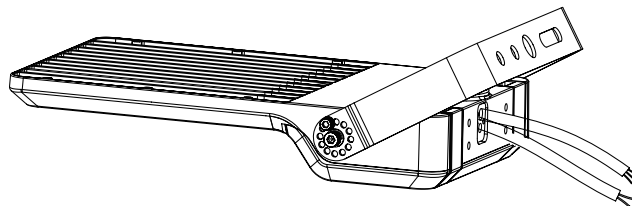
1. Install 2 big screws.
2. Install 2 small screws.

Figure 2

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INSTALLATION FOR FLH5S-M HIGH WATTAGE FLOOD SERIES

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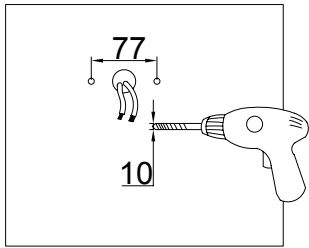### Trunnion Mounting

1. Drill holes on wall as shown.

77

10

Figure 1

2. Knock expansion bolts into wall.
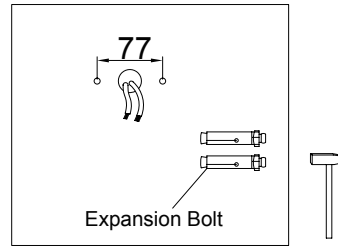
77

Expansion Bolt

Figure 2

3. Connect the fixture to the bracket and tighten the screws. Connect wires properly and put all wiring into junction box. Adjust angle (available 0-90˚).
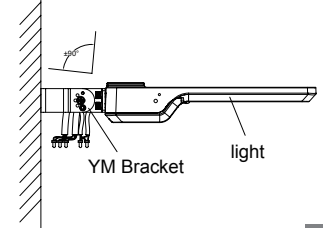
YM Bracket

light

Figure 3

Universal Mounting - Adjustable Fitter Mounting

1. Remove the spare parts from Universal bracket.
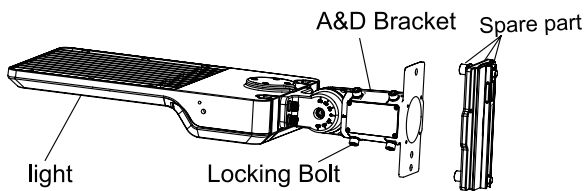
A&D Bracket   Spare part

light   Locking Bolt

Figure 1

2. Loosen the 4 bolts on the Universal bracket and connect the wires properly. Pull wires through pole. Adust angle (available 0-90˚).

A&D Bracket
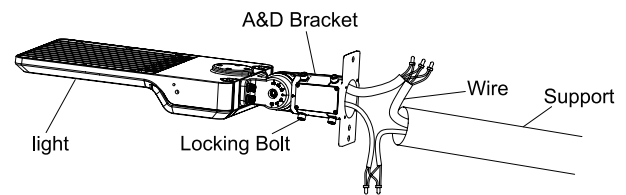
light   Locking Bolt   Wire   Support

Figure 2

Universal Mounting - Direct Fitter Mounting

1. Remove the 4 bolts from the Universal bracket and re-move the 4 rubber plugs from the installation bar. Put the 4 rubber plugs in place where the 4 bolts were previously installed for waterproof purposes.
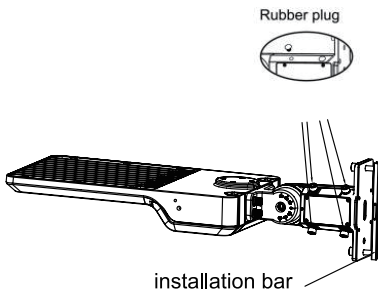
Rubber plug

installation bar

Figure 1

2. Attach the Universal bracket to the square pole with bolt, open the cover of the Universal bracket junction box, pull wires into bracket junction box, connect the wires properly and then cover the junction box. Adjust angle (available 0-90˚).

cap

fixing Bolt
square pole
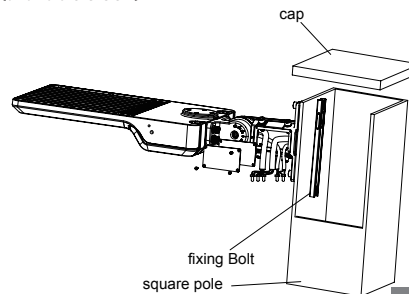
Figure 2

3. Same on round pole installation - remember to use adapting plate for round pole installation.
Adjust angle (available 0-90˚).

A&D Bracket

light

Adapting plate

Round pole

Figure 3

Yoke Mounting

1. Install the Flood bracket to the fixture. Tighten the mount and install the screws.
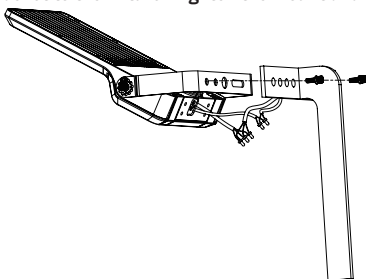
Figure 1

2. Tighten the screws and connect the wires properly. Place wires in junction box.

Loosen the angle to adjust the screw, after adjust to the angle that you need, then tighten the screws.

Figure 2

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INSTALLATION FOR FLH5S-M HIGH WATTAGE FLOOD SERIES

SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY
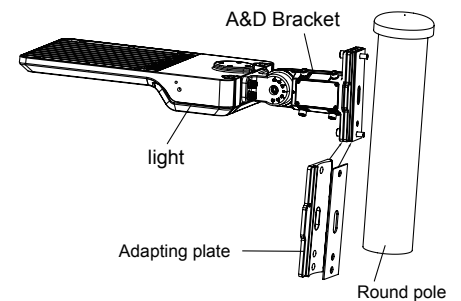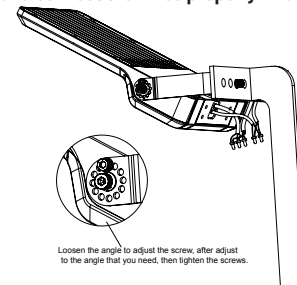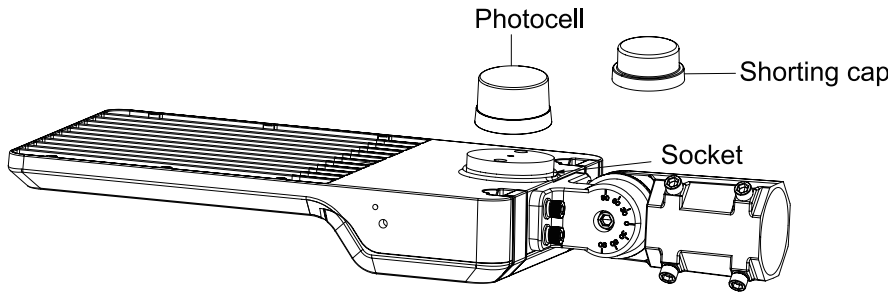
Photocell Installation

1. This fixture comes equipped with the photocell base pre-installed. If photocell function is required, remove Shorting Cap from photocell base.
2. Install Photocell component. (Wiring - Load - Black/Brown // Neutral - White/Blue // Ground - Green/Yellow-Green.)

Photocell

Shorting cap

Socket

Motion Sensor Installation

1. This fixture comes equipped with a pre-installed sensor base. If the sensor function is required, remove the ½" waterproof plug and install the sensor.
2. Follow sensor setting instructions (further in this guide).

1/2 plug

Shorting cap
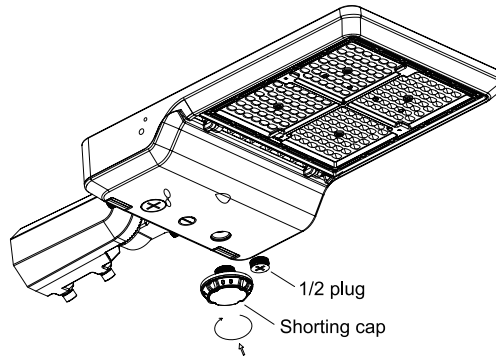
Color Temperature & Wattage Selection Adjustment

1 This fixture provides for setting color temperature choice between 3000K / 4000K / 5000K. It also allows for a choice between 3 available wattages.
2 Unscrew the ¾" plug (see image below).
3 Adjust color temperature to required setting. Adjust wattage selection to proper setting.
4 Reinstall and tighten the ¾" plug.

3/4 plug

5K 4K 3K
300W 250W 200W

300W 250W 200W

5K 4K 3K
150W 120W 100W

150W 120W 100W
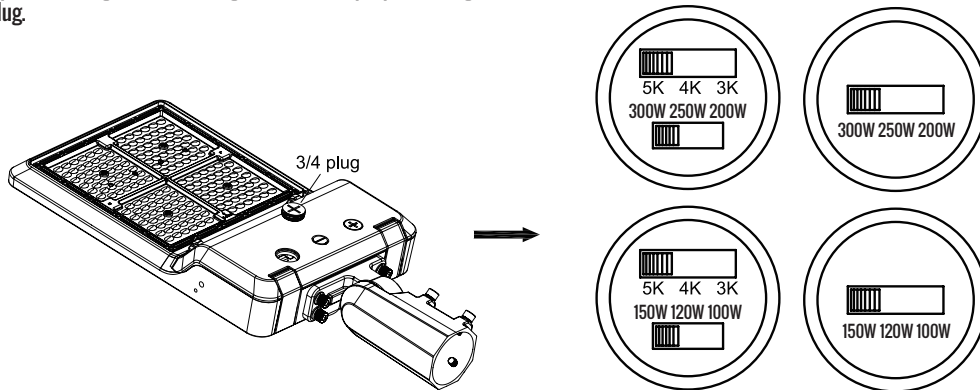
ETLIN-DANIELS

SENSOR SPECIFICATION

SENSOR WIRING DIAGRAM

Pink: +12V
Purple: DIM+
Gray: GND/DIM-

+12V DIM+ GND DIM-
0-10V
LED Driver

L
N

CEILING MOUNTED

Mounting height

WALL MOUNTED
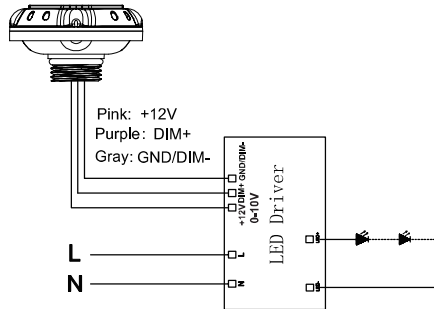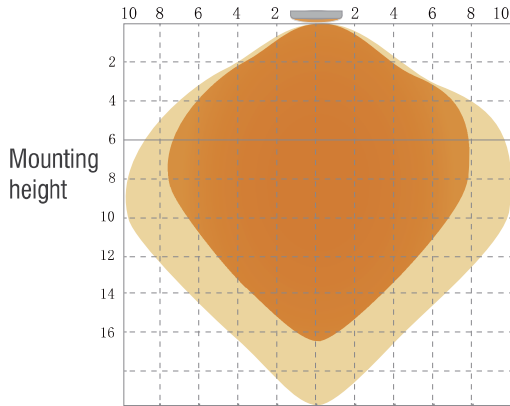

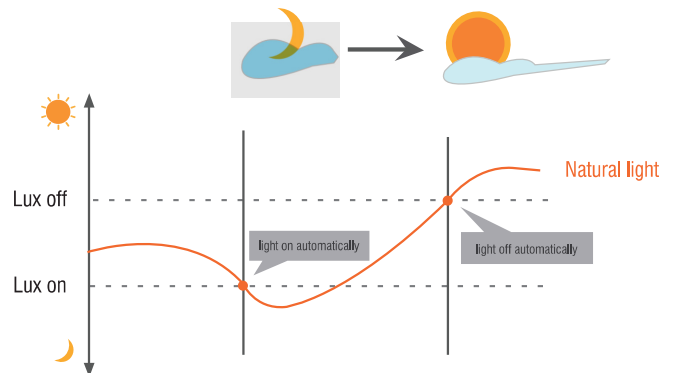Mounting height

■ Well covered

■ Covered
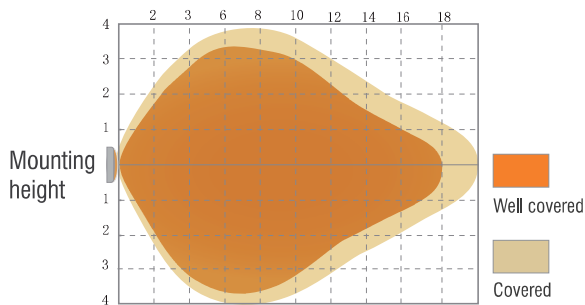
Adopted dual PD technology is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

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.

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

Lux off

Lux on

light on automatically

light off automatically

Natural light

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APPLICATION - LUX ON / OFF
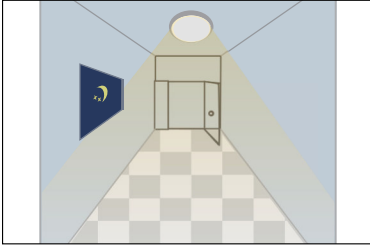
Light automatically on when ambient brightness is lower than preset lux level.
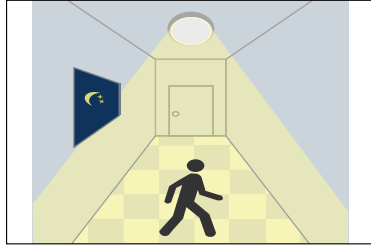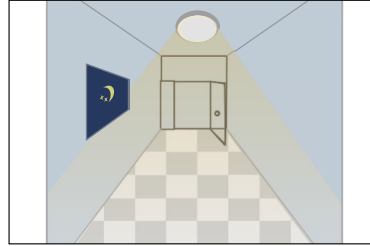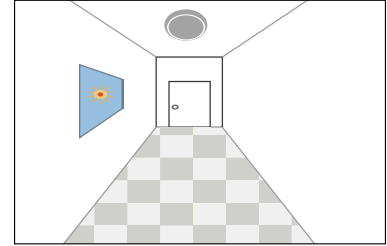
With insufficient ambient brightnes, light dims to 100% when motion detected.

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
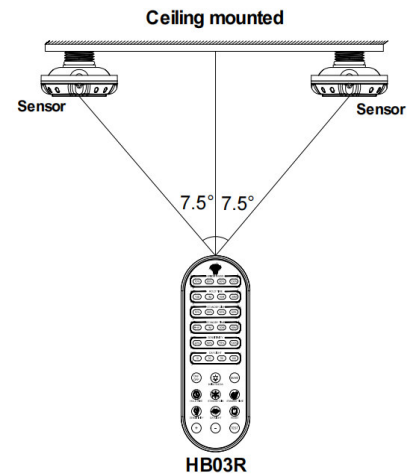
WARNING!

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.