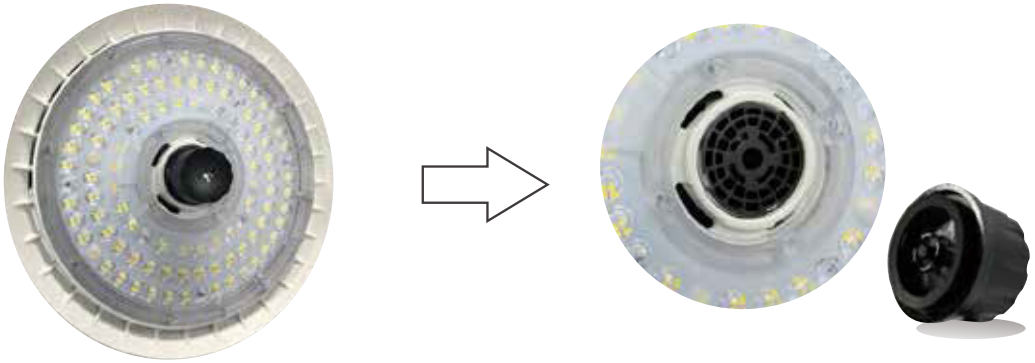
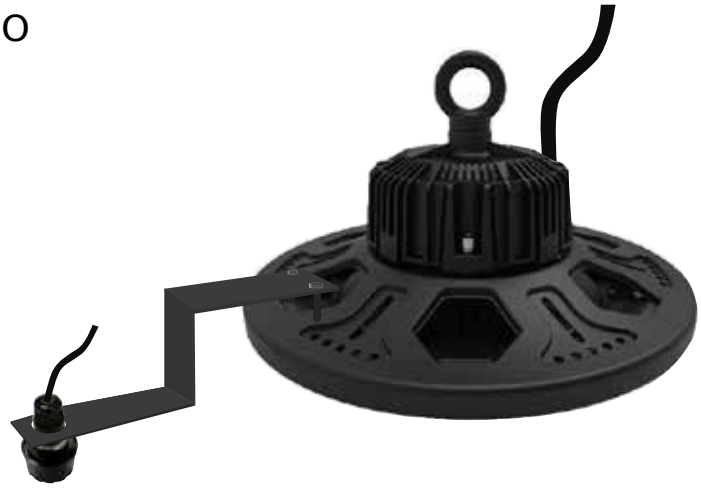
# Installation Method

## Inside the UFO



## Beside the UFO



Pin to Mount

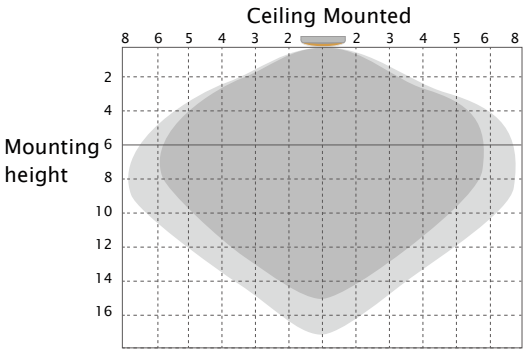
**PHBP3 Sensor**

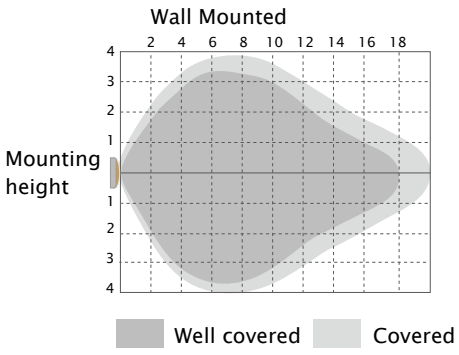
## Specification

| | | |
|---|---|---|
| Input | Voltage | 10.5-15V DC (Currect Required>30mA) |
| | Standby Consumption | <30mA (Power Consumption) |
| Output | Dim Output | DIM 1-10V |
| Daylight Priority Function | | Detection area: 120Lux/80Lux/50Lux/30Lux<br>Stand-by period: +∞<br>Stand-by dimming level: 10%/20%/30% |
| Sensor Parameters | Detection Area | 25%/50%/75%/100% |
| | Holdtime | 5s/30s/1min/3min/5min/10min/20min/30min |
| | Daylight Threshold | 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable |
| | Stand-by Period | 0s/10s/30s/1min/5min/10min/30min/60min+∞ |
| | Stand-by Dimming Level | 10%/20%/30%/50% |
| | Microwave Frequency | 5.8GHz±75MHz |
| | Microwave Power | <0.3mW |
| | Mounting Height | ≤12m/39.36ft (Ceiling Mounted) |
| | Detection Range | Max,ø16m/52.49ft (Ceiling Mounted) |
| | Motion Detection | 0.5~1m/s |
| Others | Temperature | -20°C~+60°C |
| | IP Grade | IP65 |
| | Warranty | 5 Years |
| Remark | Factory Default Setting: Detection area 100%/ Hold time 5s/ Daylight threshold Disable/ Stand-by period 0s/Stand-by dimming level 10%. | |

## Detection coverage

Typical installation height 8-12m.
This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

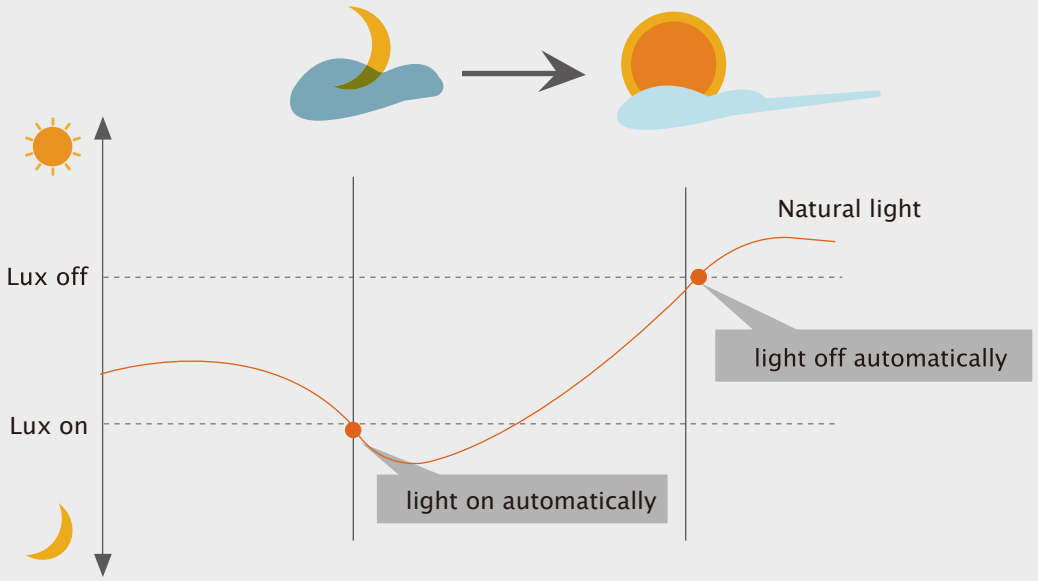


## Daylight Priority

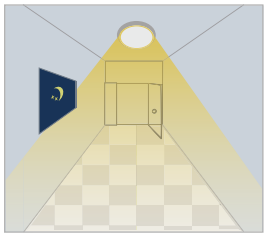
Dusk/Dawn sensor:
Dual-PD technology brings a fully automatic dusk/dawn sensor which can tell the difference between natural light and LED light, to ensure the light will be off when needed.

Precondition of Daylight priority:
1. Daylight threshold is on 30Lux/50Lux/80Lux/120Lux;
2. Standby period is +∞;
3. Standby dimming level is on 10%/20%/30%.

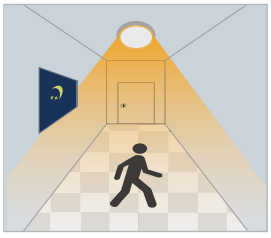



## Application____Daylight priority

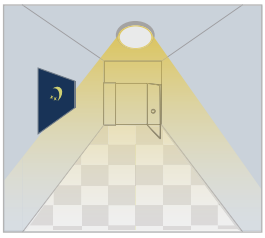
∗ Daylight threshold is on 30Lux/50Lux/80Lux/120Lux;
∗ Standby period is +∞; Standby dimming level is on 10%/20%/30%.



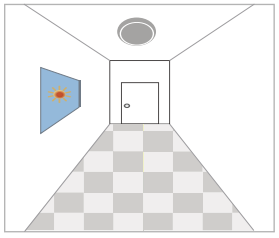
Light automatically on when ambient brightness is lower than preset lux level.



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



Light dims to standby level if no motion detected after holdtime.

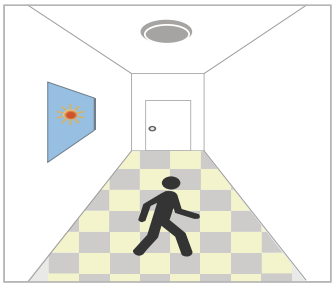


Light off when ambient lux level is higher than preset lux amount.

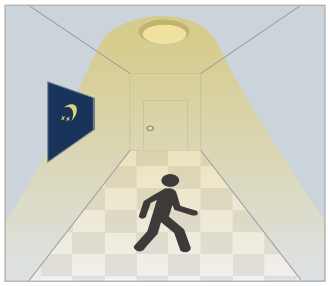
# Application

## 1. Automatically ON/OFF function:

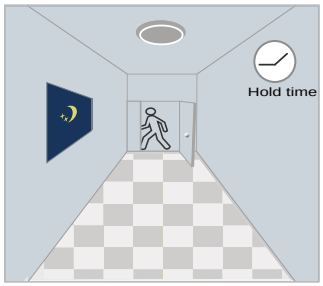
* Daylight threshold is on 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux;
* Standby period is 0s; Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.



With sufficient daylight, even when motion detected, light remains OFF.



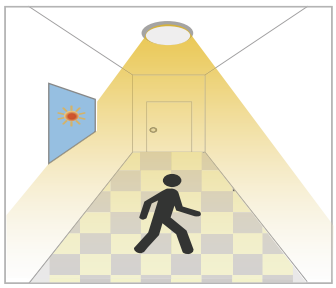
With insufficient daylight, when motion detected, light ON.



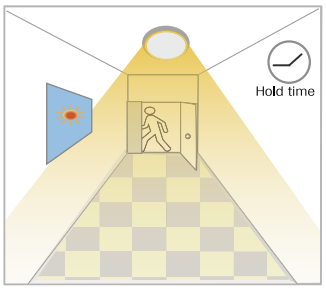

After the last detection and the present hold time elapsed, light OFF.

## 2. No daylight function

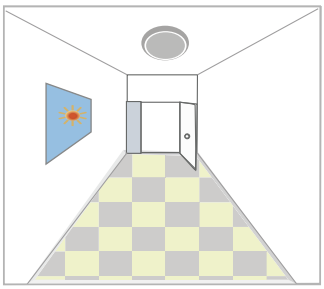
* Daylight threshold is on “Disable”; Standby period is on 0s/10s/30s/1min/5min/10min/30min/60min.
* Light on when detect movement, After people leave, Light off after stand-by period.
* Stand-by period is set to +∞,The light will always remain ON.



When motion is detected, the sensor will switch on the light to 100% brighteness.



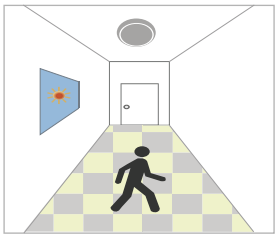

After people leave the detection area, light remains 100% brightness within hold time.



After the last detection and the present hold time elapsed, light OFF.

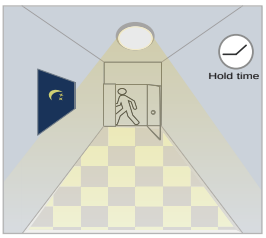
## 3.Function Demo – Dimmable control/Corridor function

* Daylight threshold is on 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux;
* Standby period is on 0s/10s/30s/1min/5min/10min/30min/60min.
* Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.

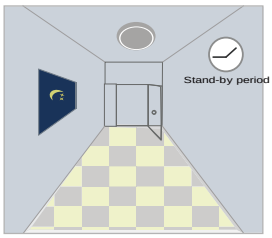


With sufficient daylight, even when motion detected, light remains OFF.

With insufficient daylight, when motion detected, light ON.




After last detection, the light will be dimmed down to the stand-by dimming level (10%, 20%,30% or 50%) after holdtime.




After the stand-by period, light OFF.

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# PHBP3 Sensor REM

## Electric Parameters

Working Voltage: AAA battery * 2pcs (2.2-3V)

Screen OFF Duration: 60S

Icon Flicking Duration: 5S

S(start) button ON Duration: 10S

M(Memory) button Flicking Duration: 3S

Carrier Frequency: 38KHz±2KHz

Operation Distance Max. 15M/49ft (3V)

Emission Angle: ＜ 30 degree

Standby Current: ＜1.2uA

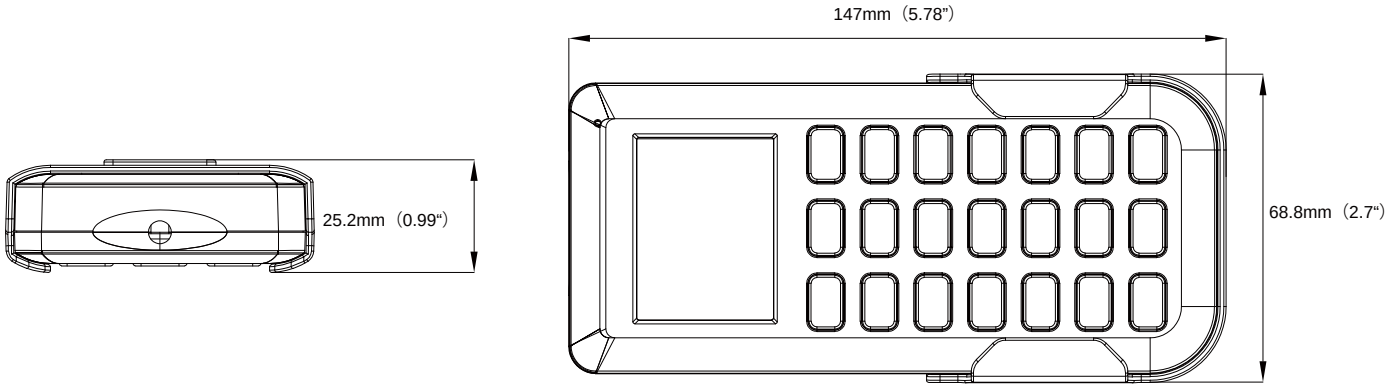
Working Current: ＜5mA

Peak Current: ＜30mA

Working Temp: -20℃～+60℃

Storage Temp：-30℃～+85℃

## Dimensions




## User LCD Screen Display

| | |
|---|---|
| 100% | Detection Area |
| 01m | Holdtime |
| 50% | Standy Dim Level |
| 00S | Standby Period |
| 200lux | Daylight Threshold |
| 100% | Brightness |

| | |
|---|---|
| K2700k | CCT Selected |
| AM | AM means "Auto Mode", AM not showing means "manually control mode" |
| DH-OFF | Daylight Harvesting enabled or disabled |
| S M | "Start" or "Memory" scene parameters |
| SK-02 | Reserved area for the future |
| HP | Mounting Height |

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**PHBP3 Sensor REM**

# Briefing of Button Functions

| Buttons | Function | Function Performance |
|---|---|---|
| ON/OFF | ON/OFF | Turn ON or OFF light and keep the sensor in ON/OFF mode. |
| Auto | Auto | Enter into SENSOR MODE and peform the last time setting. |
| Reset | Reset | Go back to default program; Enter into SENSOR MODE and perform the default program. |
| Function Programming Buttons | | |
| Scenes | Scenes | Keep favorable program(Detection area, holdtime, daylight threshold, standby dim level and standby period) into different scenes and apply them quickly. |
| Start | Start | Press this button to start programming, S icon on LCD screen display started to blink; after programming press MEMORY button, S icon keeps being. |
| Memory | Memory | Press this button to memorize program and saved it into SCENEs; after pressing it, M icon's bright then off after 3S. |
| Apply | Apply | Press this button to send the program(detection area, holdtime, daylight threshold, standby dim level and standby period) and sensor works in SENSOR mode. |
| M H | Mounting Height | Adjust detection area/sensitivity levels according to real installation situations, higher or lower. |
| Send | Send | Memorize and send out the last time setting of individual parameters(detection area, holdtime, standby dim level, standby period, daylight threshold, power, CCT, Daylight Harvesting, ON/OFF, Auto, Reset, Mounting Height, test) |
| | Detection Area | Adjust from detection area options 25%, 50%, 75% and 100%. |
| | Daylight Threshold | Adjust from daylight threshold options, there are "---"(disable), 2lux, 10lux, 30lux, 50lux, 80lux, 120lux, 200lux, 250lux, 300lux, 350lux, 400lux, LEN(daylight learning). |
| | Standy Dim Level | Adjust from standby dim levels, 10%, 20%, 30% and 50%. |
| | Holdtime | Adjust from holdtime options: 5S, 30S, 1min, 3min, 5min, 10min, 20min and 30min. |
| | Standby Period | Adjust from Standby Period options, 0S, 10S, 30S, 1min, 5min, 10min, 30min, 60min and "--" as infinite. |
| CCT | CCT Selectable | (To work with CCT supported sensors)Adjust from CCT options, 2700K, 3500K, 4000K, 5000K, 5700K, 6500K. |
| POWER | Brightness Adjustable | Adjust brightness in both ON/OFF mode & SENSOR mode, minimum 10%, max 100%, each pressing makes 5% change. |
| O | Reserved Button | This remote control works for the next years, we keep this reserved button for the future reference. |
| | Daylight Harvesting | Daylight harvesting function enabled or disabled. |
| Test | Test Button | Quick testing button for only 2S ON then OFF. |
| | + | Choose higher parameters. Tips: 1. Press POWER button then keep pressing + button get you directly to 100% |
| | – | Choose lower parameters. Tips: 1. Press POWER button then keep pressing - button get you directly to 10% |