

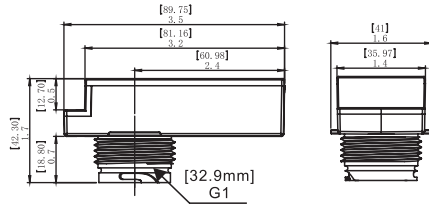
# ■ Line Voltage Passive Infrared Fixture Integrated Outdoor Sensor LLHB2-M Instruction



LLHB2-M



LLHB2-RC  
(Sold Separately)



Unit:mm/in

## Product brief

The LLHB2-M mounts in an outdoor lighting fixture and provides multi-level control based on motion and/or daylight contribution. It controls 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an Fresnel Lens, is rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

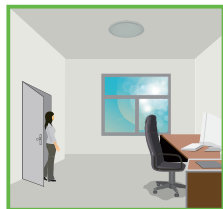
## Technical parameters

120/277 VAC, 50/60Hz  
 Resistive/Halogen - 800W/1200W@120/277V  
 Fluorescent Ballast - 660W/1200W@120/277V  
 Electronic Ballast (LED/CFL) - 5A/5A@120/277V  
 Detect Area: 360°, maximum coverage 60' diameter from 40' height  
 High mode: 0-10 V; default 10 V  
 Low mode: Off, 0-9.8 V; default 1 V  
 Operating temperature: -40-158°F (-40-70°C)  
 Operating Humidity: 20-90%  
 IP66 for PIR LEN(top part of the sensor)  
 Five year warranty

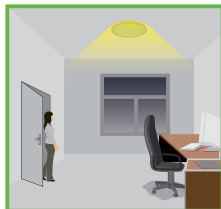
## Function and options

### 1.Bi-Level control

The PIR sensor to achieve tri-level dimming control, for same areas that require a light change notice before switch off.  
 It offers 3 levels of the light Control : 100%--dimming light (0,10%,30%,50%)--off;and 2 periods of selectable waiting time: motion hold-time and stand-by time. Selectable daylight threshold and choice of detection area.



With sufficient natural light, the light does not switch on when presence detected.



With insufficient natural light, the sensor switches on the light automatically when person enters room.



People left, light still dims to 0/10%/30%/50% (options) standby level after the hold time.

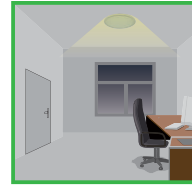


Light switches off automatically after after stand-by time elapsed.

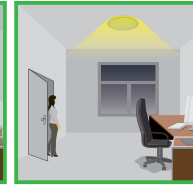
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## 2. Photocell(Daylight sensor) Control

In condition by setting, Press **Ⓜ**, the photocell(Daylight sensor) on/off setpoint is open. When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for 1 min in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection after 1min. This feature is disabled by default.



If with insufficient natural light, the light automatically dims to 0,10%, 30%, 50%.



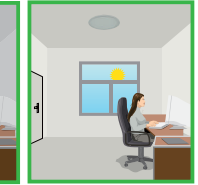
With insufficient natural light, the sensor switches 100% on the light automatically when person enters the room.



People left, light dims to 0/10%/30%/50% (options) standby level after the hold time.

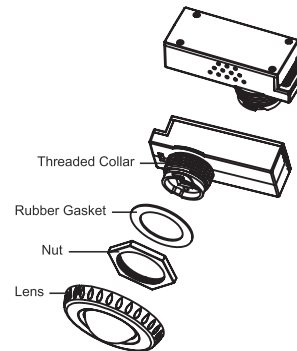


The light still dims to 0/10%/30%/50% if still insufficient natural light, the light never switch off until sufficient natural light.

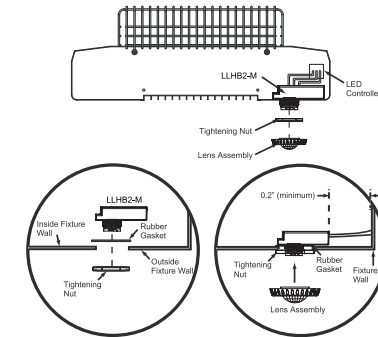


Light will switch off automatically even with presence detected, if the nature light is sufficient.

## Sensor module

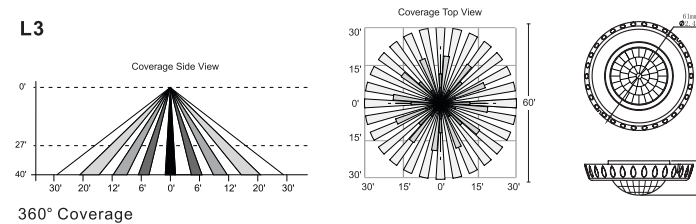


## Mounting

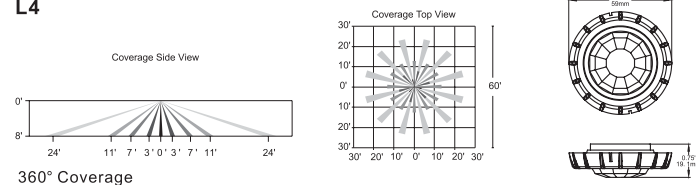


## Coverage Patterns

### L3



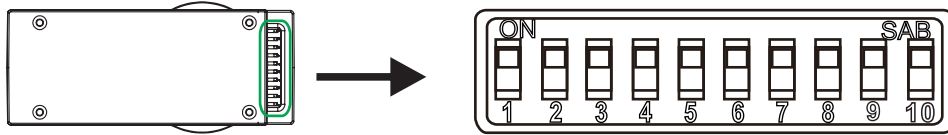
### L4



# Line Voltage Passive Infrared Fixture Integrated Outdoor Sensor LLHB2-M Instruction

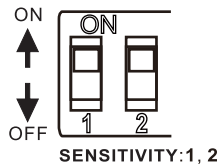
## PARAMETER SETTING BY DIP SWITCH

Consider the picture: 1, 2 set sensitivity; 3, 4 set hold time; 5, 6 set the lux; 7, 8 stand-by light level ; 9, 10 set stand-by time ;



### Detection Range Setting (sensitivity)

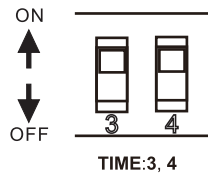
Detection range is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 40ft, pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and detection range of the corresponding table is as follows:



SENSITIVITY	
↓ ↓	20%
↓ ↑	50%
↑ ↓	75%
↑ ↑	100%

### Hold Time Setting

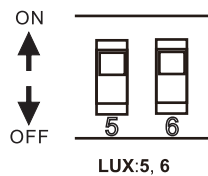
The light can be set to stay ON for any period of time between approx. 10sec and a maximum of 60min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test. Pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and detection range of the corresponding table is as follows:



TIME	
↓ ↓	10S
↓ ↑	10Min
↑ ↓	30Min
↑ ↑	60Min

### Light-control Setting

The chosen light response threshold can be infinitely from approx. 10-50lux, pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and light-control of the corresponding table is as follows:

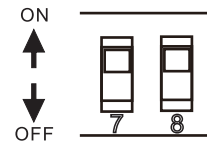


LIGHT	
↓ ↓	☀ (light sensor disable)
↓ ↑	10Lux
↑ ↓	30Lux
↑ ↑	50Lux

# Line Voltage Passive Infrared Fixture Integrated Outdoor Sensor LLHB2-M Instruction

## Stand-by Light Level Setting

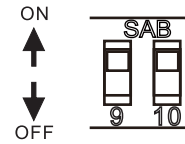
Switch to the on is "↑", switch to the off is "↓"; he corresponding file of switch location and detection distance as follow:



STAND-BY LEVEL	
↓ ↓	0%
↓ ↑	10%
↑ ↓	30%
↑ ↑	50%

## Stand-by Time Setting

File of switch location and detection distance as follow: file of switch location and detection distance as follow:

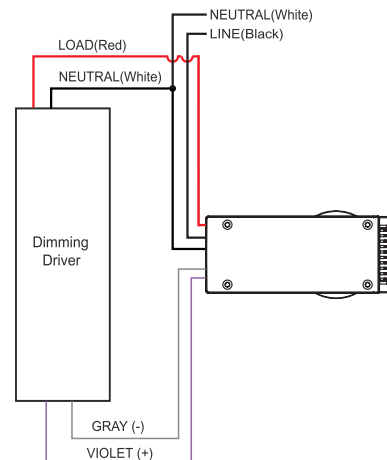


STAND-BY TIME	
↓ ↓	+∞
↓ ↑	1Min
↑ ↓	30Min
↑ ↑	60Min

## PARAMETER SETTING BY REMOTE CONTROL IN MANUAL OF LLHB2-RC

### Wiring Diagrams

LLHB2-M wiring with dimming ballast or LED driver.  
Dimming Driver



LLHB2-M wiring with non-dimming ballast or LED driver.  
Non-Dimming Driver

