

Test Switch: If manual test switch pressed, the fixture will operate from its battery supply.
Please ensure battery plug is connected to the inverter battery terminal.

Warning: All maintenance, such as battery change on this luminaire is to be changed by qualified personnel only. De-energize all supplies before maintenance.

INSTALLATION / WARRANTY INSTRUCTIONS

PRODUCT BRAND: PIERLITE
PRODUCT NAME: PIERLUX GS HIGHBAY With Sensor
PRODUCT CODE: PLHB120LS4GSH, PLHB120LS5GSH, PLHB200LS4GSH, PLHB200LS5GSH
PLHBSNMW, PLHBREM

Issue Date:01/02/2024

Please read these installation instructions carefully before installing or maintaining this equipment. The product is designed for installation and maintenance in accordance with relevant Australian standards (AS/NZ3000), by an authorized and licensed electrician. The installation instructions were correct at the time of print. To reflect changes in technology and Australian and New Zealand standards; Pierlite reserves the right to amend the instructions without notice. Updated guidelines can be found on relevant brand web site.



1. PRODUCT SPECIFICATION:

Item code	PLHB120LS4GSH, PLHB120LS5GSH	PLHB200LS4GSH, PLHB200LS5GSH
Type of protection	Class I luminaire	
IP rating	IP65	
IK rating	IK08	
IC rating	N/A	
Nominal voltage	220V to 240Vac	
Nominal frequency	50/60 Hz	
Number of wattages per fitting	4 power selections per fitting	
Available wattages	Refer to section 4	
Power factor	>0.9 (full load)	
Surge protection rating	L-N 4KV/2KA, L-E: 4KV/2KA, N-E: 4KV/2KA Maximum impulse voltage, 10KV (where SPD installed)	
Inrush current	Cold start 60A at 106us Measured at 100% load at 240Vac	Cold start 65A at 113us Measured at 100% load at 240Vac
Earth leakage	<0.7mA	
Rated operating ambient temperature	-25 to +50°C	
LED lifetime	<ul style="list-style-type: none"> Reported >60000 hours(L70/B10) +50°C Reported 42,000 hours (L90/B10) @ +50°C 	<ul style="list-style-type: none"> Reported >60000 hours(L70/B10) +50°C Reported 37,000 hours (L90/B10) @ +50°C
Colour temperature	4000K or 5000K	
Colour rendering index (CRI)	85	
LED control gear	Lumen select	
Available in emergency	N/A	
Emergency battery technology	N/A	
Electrical connection	Supplied with 1.7m long 3-pin flex and plug	
Cable type	Z	
Cable entry	N/A	
Installation type	Fixed	
Dimensions (LxWxH)	290x290x146mm	330x 330x147mm
Net weight of luminaire	2kg	2.6kg
Warranty	5 years	
Suitability	Indoor and outdoor	
Suitable for rough service	Yes	

2. CONSUMABLES AND ACCESSORIES (ACCESSORIES TO BE PURCHASED SEPARATELY)

Product Code	Accessories	Suitable for Pierlux Sensor Highbay
PLHBSNMW (PLHBXXXLSXGSH with 1pcs in the package)	Sensor to suit sensor highbay	
PLHBREM	Sensor remote control to suit sensor highbay	
HBBRKT	Surface mounting bracket kit 166mm x 127mm x 29mm	
HBDUSTCOV (Dip set should not more than 120W for PLHB200LS4GSH and PLHB200LS5GSH)	Anodized aluminium dust cover Ø371mm x 79.5 mm	
HBPCREFR	Transparent polycarbonate reflector Ø410mm x 141mm	
HBPCLENS	Transparent PC reflector Lens to suit HBPCREFR Ø413mm x 40.6mm	
HBRODBRKT	Rod mount bracket black 275.5*239.9*218mm	

3. SERVICE & OPERATION (EMERGENCY VERSION)

Normal Operation: Maintained Emergency Operation.

Battery: Sealed **Lithium Iron Phosphate (LiFePO4)** rechargeable battery pack. As per AS/NZS 2293, it is required that the battery pack is discharged and recharged at least once every 6 months.

In case of a replacement, same brand and type of battery pack must be used. Allow 24 hours charging time before carrying out any discharge tests.

Charge Duration: 16 Hours

Discharge Duration: M2 = 2 Hours for standard emergency or M4 = 4 hours for rail/heavy industry emergency (Initial Test)

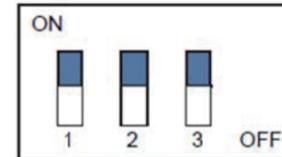
4. LUMEN SELECT TABLE (contractor selectable output)

Pierlite's lumen select products allows all licensed electricians to purchase one luminaire that can be set as multiple fixed wattages/ fixed lumen outputs. By offering this capability within one fitting it provides the following benefits

- One fitting multiple fixed outputs
- Less stocked items
- Easy to change settings
- IES files available for all available for wattages shown in the above table
- No control system or software required to change fixed output

The lumen output can be altered by changing the driver dip switches from the factory default setting to the driver milli-amps as specified in the table. Dip switches are located next to suspension hook of the Highbay.

Product Code#	Power (W)	Line Current (A)	Lumen Output (lm)	Dip Switch Settings Refer section 5			CCT (K)
				1	2	3	
PLHB120LS5GSH	120 (default)	0.53	18300	Off	Off	Off	5000K
	100	0.45	15600	On	Off	Off	
	80	0.36	12700	Off	On	Off	
	60	0.29	9700	Off	Off	On	
PLHB120LS4GSH	120 (default)	0.53	18300	Off	Off	Off	4000K
	100	0.45	15600	On	Off	Off	
	80	0.36	12700	Off	On	Off	
	60	0.29	9700	Off	Off	On	
PLHB200LS5GSH	200 (default)	0.89	30000	Off	Off	Off	5000K
	170	0.76	26400	On	Off	Off	
	120	0.54	19100	Off	On	Off	
	100	0.45	16100	Off	Off	On	
PLHB200LS4GSH	200 (default)	0.89	30000	Off	Off	Off	4000K
	170	0.76	26400	On	Off	Off	
	120	0.54	19100	Off	On	Off	
	100	0.45	16100	Off	Off	On	



Note: Make sure to disconnect power before changing a DIP switch on the luminaries. Setting the DIP switches according to the above ONLY. All other settings may affect the luminaries' performance. After setting, secure the silicon cover over the DIP switches.

PLHB120LS5GSH

On/Off	Dip Switch Setting			Power (W)	Lumen output (lm)
	1	2	3		
On	Off	Off	Off	120 (def.)	18300
Off	On	Off	Off	100	15600
	Off	On	Off	80	12700
	Off	Off	On	60	9700

PLHB200LS5GSH

On/Off	Dip Switch Setting			Power (W)	Lumen output (lm)
	1	2	3		
On	Off	Off	Off	200(def.)	30000
Off	On	Off	Off	170	26400
	Off	On	Off	120	19100
	Off	Off	On	100	16100

PLHB120LS4GSH

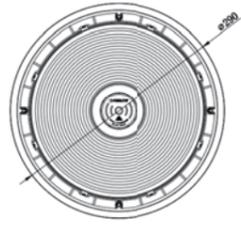
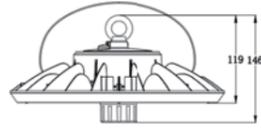
On/Off	Dip Switch Setting			Power (W)	Lumen output (lm)
	1	2	3		
On	Off	Off	Off	120(def.)	18300
Off	On	Off	Off	100	15600
	Off	On	Off	80	12700
	Off	Off	On	60	9700

PLHB200LS4GSH

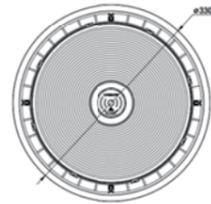
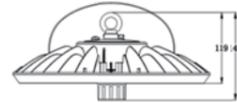
On/Off	Dip Switch Setting			Power (W)	Lumen output (lm)
	1	2	3		
On	Off	Off	Off	200(def.)	30000
Off	On	Off	Off	170	26400
	Off	On	Off	120	19100
	Off	Off	On	100	16100

5. LINE DIAGRAMS AND DIMENSIONS

Item code	Diameter (mm)	Height (mm)	Weight in (kg)
PLHB200LS4GSH PLHB200LS5GSH	330	147	2.6
PLHB120LS4GSH PLHB120LS5GSH	290	146	2



PLHB120LS4GSH, PLHB120LS5GSH



PLHB200LS4GSH, PLHB200LS5GSH

6. **INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

Installation:

Tools Required

- Flat blade screwdriver

installation steps

<p>1. Double check suspension ring and safety lanyard and make sure they are tightly fixed on the body.</p>	<p>2. Use a flat head screw driver to unscrew the sealing cap. (If you use the default output, please ignore this step)</p>	<p>3. Set the lighting level to the desired lumen output via the lumne select switches. (If you use the default output, please ignore this step)</p>	<p>4. Use a flat head screw driver to tighten the sealing cap. (If you use the default output, please ignore this step)</p>
<p>5. Unscrew the protective cap from Zhaga socket.</p>	<p>6. Install the sensor on the socket.</p>	<p>Note: The safety lanyard must be connected to a separate retention wire or chain than the luminaire suspension.</p> <p>7. Hang the luminaire by the suspension ring to suitable fixed safety hook or closed link chain.</p>	<p>8. Plug into power socket.</p>

Warning: The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

7. **IMPORTANT** - the product must be maintained and operated in accordance with the manufacturer's instructions, failure to do so may damage the product and services. It is strongly recommended that this important note be communicated to the owner and or operator of the installation at the time of site commissioning. Good practice does not recommend the 24/7 use of products without the application of suitable switch cycle intervals. Furthermore, with the omission of nominated survival curves and or recommended operating hours, product design expectations provide for a continual daily usage of 6 hours for residential applications and a continual daily usage of 12 hours for commercial and industrial applications. All products must be thoroughly cleaned on a regular basis at intervals that reflect in the installation environment, ensuring the optical performance, together with the electrical, mechanical, and structural integrity as designed, is maintained throughout the service life of the product.

8. **APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".

9. **STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

10. **APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation installations. Installation environments outside these conditions are not recommended.

11. MAINTENANCE:

(a) The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Pierlite is not responsible for any product not maintained in accordance with the recommended procedure or intervals.

(b) **Lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Pierlite recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Pierlite is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components.

(c) **For products supplied with glass visors or covers,** do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated, and the damaged glass replaced by a professional installer immediately.

(d) **Cables or cords,** if any external cable or cord of the X or Y type luminaire is damaged, it shall be replaced by a qualified person or manufactures service agent. For Z type attachments to luminaire, cord cannot be replaced if damaged, the luminaire shall be removed from service.

Flex cord types.

- X: A specially prepared flexible cable or cord, may also include a part of the luminaire and only available from manufacture.
- Y: Attachment may be used either with ordinary or special flexible cable or cord.
- Z: Attachment of cable or cord that cannot be replaced without damage to luminaire

WARRANTY INSTRUCTIONS: For the purpose of warranty claims (if any) the following instructions apply:

Warranty period - The above components are provided with a warranty (refer to product specifications for details) against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause.

Warranty reference - The warranty reference date commences from the date of purchase.

Warranty point of contact – Pierlite, 96 Gow Street Padstow NSW 2211, phone T 1300 799 300 contact – Pierlite After Sales Support.

Warranty claim procedure – For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number.
3. Upon receipt of the goods, Pierlite will review the claim and if found to be accepted, Pierlite will return a replacement product to the customer to install at the customer's expense. Alternatively, if the claim is rejected, the customer may request the return of the goods at their expense.

Consumer Contracts - The benefits to the customer given by the Pierlite warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.*

Limitation of Liability – if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise:- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss).

Terms of Sale – these warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the warranty components.

PLHBSNMW Sensor Function

- o ON-OFF function Stand-by Period be set to "0s"
- o 2-step dimming Stand-by Period be set to "+∞"
- o 3-step dimming Stand-by Period be set to "10s/1min/3min/5min/10min/30min"
- o Daylight priority Remote press DH Mode and Daylight Sensor be set to "5Lux/15Lux/30Lux/50Lux/100Lux/150Lux"
- o Daylight harvesting N/A

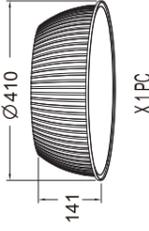
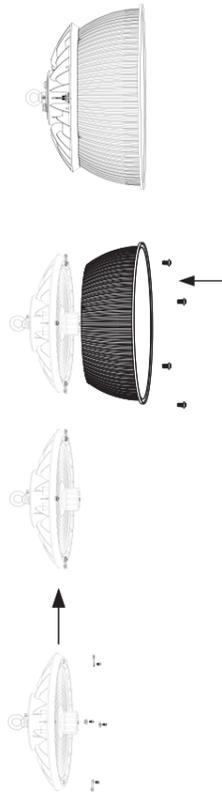
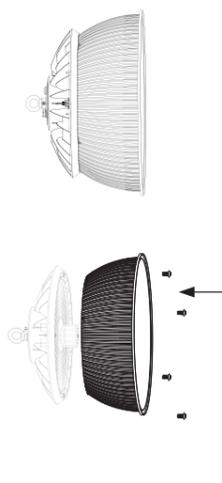
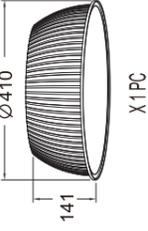
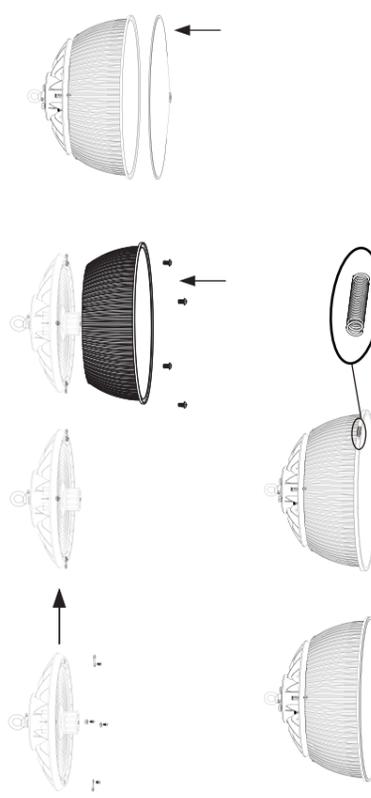
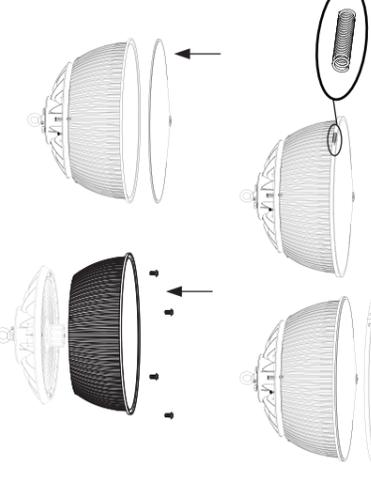
PLHBSNMW Sensor Default Setting

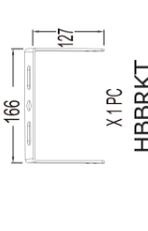
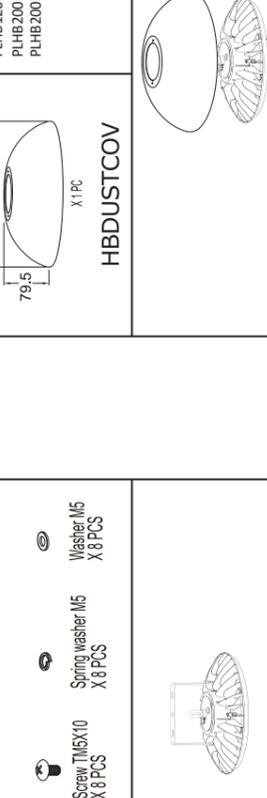
Sensitivity: 100%, Hold time: 10min, Daylight sensor: Disable, Stand by period: 30min, Stand by DIM level: 10%

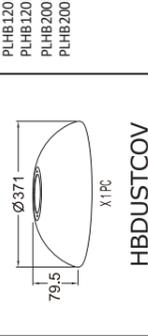
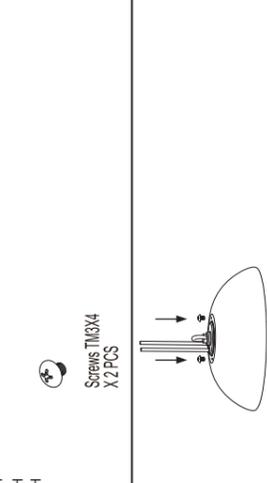
PLHBREM instruction:

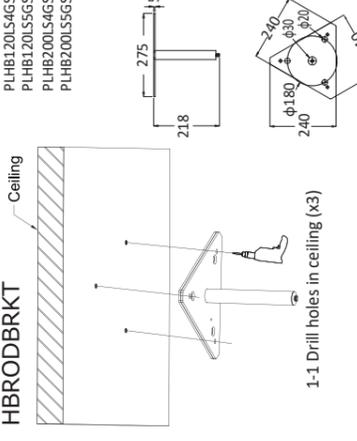
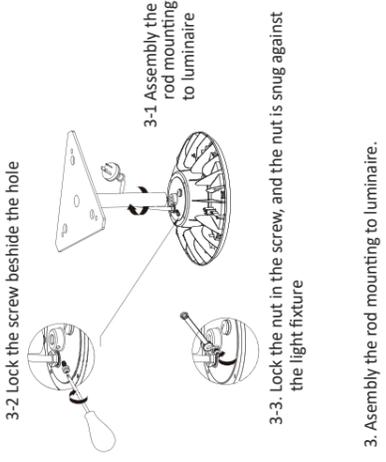
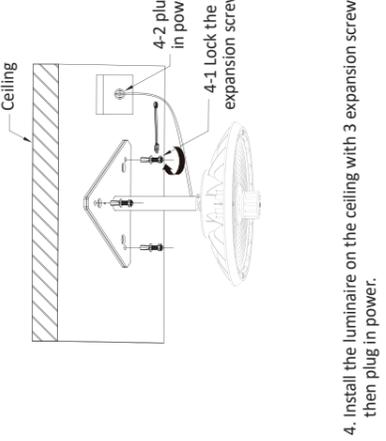
Remote Control Setting	Button	Remarks																												
	ON/OFF	Press the "ON/OFF" button, the load light enters the normal on/off mode, and the sensing function is disabled. This button has no power off memory function																												
	Reset	Press "Reset" button, all parameters are same as setting of DIP switch or factory settings. Note: Only the product has DIP switch, it will revert to the current DIP setting.																												
	Sensor motion	Press "Sensor motion" button, the light quits from the normal on/off mode, and the sensor starts to work. (The latest setting stays in validity)																												
	DIM Test	Press "DIM Test" button, the 0-10V dimming works to test whether the 1-10Vdc dimming ports are connected properly. After 2s, it returns to the latest setting automatically.																												
	Override DH	Long Press 3s "Override DH" button to exit the Daylight priority mode or Daylight harvesting mode, and then enter the Daylight Sensor mode. (The latest setting stays in validity)																												
	DIM+ DIM-	Short press "DIM+/DIM-" button to set occupancy light level, the brightness of the load light adjusts at 5% per unit. Long press "DIM+/DIM-" button to set occupancy light level, the brightness of the load light adjusts at 5% per unit. Dimming range: 50%-100%. (apply for normal on mode and sensor with daylight harvesting function)																												
	DH Mode	Long Press 3s to enter the Daylight priority function or Daylight harvesting function. Note: Short press "Disable" button will exit the Daylight priority mode and the Daylight Sensor is uncontrolled.																												
	Q51 Q52 Q53	<table border="1"> <thead> <tr> <th>Scene Options</th> <th>Detection Area</th> <th>Hold Time</th> <th>Stand-by period</th> <th>Stand-by dim level</th> <th>Daylight Sensor</th> <th>Induction way</th> </tr> </thead> <tbody> <tr> <td>Q51</td> <td>100%</td> <td>5min</td> <td>10min</td> <td>10%</td> <td>30Lux</td> <td>HS</td> </tr> <tr> <td>Q52</td> <td>100%</td> <td>10min</td> <td>30min</td> <td>10%</td> <td>Disable</td> <td>HS</td> </tr> <tr> <td>Q53</td> <td>100%</td> <td>20min</td> <td>30min</td> <td>10%</td> <td>Disable</td> <td>HS</td> </tr> </tbody> </table> <p>Note: The sensor parameters can be adjusted by pressing the corresponding button. When user press any button to change the sensor parameters, the last setting prevails. If the sensor doesn't have the function of the above parameters, that parameter is invalid. (Stand-by period and Stand-by DIM Level are not applicable to ON-OFF Sensor. Induction way is not applicable to low-mount sensor)</p>	Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction way	Q51	100%	5min	10min	10%	30Lux	HS	Q52	100%	10min	30min	10%	Disable	HS	Q53	100%	20min	30min	10%	Disable	HS
Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction way																								
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Q52	100%	10min	30min	10%	Disable	HS																								
Q53	100%	20min	30min	10%	Disable	HS																								
	TEST	Press the "TEST 2s" button can enter the test mode anytime. At test mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 2s, Stand-by Dim Level is 10%, Stand-by Period is 0s, Daylight sensor is disabled. This function only for testing. Quit the test mode by pressing "RESET" or any other function buttons. This mode has no memory function. After powering on again, the parameters are restored to the last setting. Note: If the sensor have the wireless networking function, the button provides the functions is entering the distribution network mode.																												
	HS LS	Press "HS" button to set the detection area to high sensitivity. Press "LS" button to set the detection area to low sensitivity. The Induction mode is adjusted at the setting detection area. Note: This button is invalid for low-mount sensor.																												
	Daylight Sensor	Set up Daylight Sensor: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable																												
	Stand-by period	Set up Stand-by period: 0s/10s/1min/3min/5min/10min/30min/+∞ Note: Stand-by period is not applicable to ON-OFF Sensor.																												
	Hold time	Set up Hold time: 5s/30s/1min/3min/5min/10min/20min/30min																												
	Stand-by dim level	Set up stand-by dim level: 10%/20%/30%/50% Note: Stand-by DIM Level is not applicable to ON-OFF Sensor.																												
	Detection Area	Set up Detection Area: 25%/50%/75%/100%																												
	Remote Distance	Toggle bottom can set the remote distance of remote control and sensor.																												

ACCESSORIES (TO BE PURCHASED SEPARATELY – Line drawings installation could also be found in the individual accessories pack).

 <p>HBPREFR X 1 PC</p>	<p>PLHB120LS4GSH PLHB120LS5GSH</p> <p>Screws T1M4X6 X 8 PCS</p> <p>BRK For REF X 4 PCS</p>	 <p>Install to PLHB120LS4GSH or PLHB120LS5GSH</p>	 <p>Install to PLHB200LS4GSH or PLHB200LS5GSH</p>
 <p>HBPREFR X 1 PC</p> <p>LENS X 1 PC</p> <p>RING X 1 PC</p> <p>HBPCLENS</p>	<p>PLHB120LS4GSH PLHB120LS5GSH</p> <p>Screws T1M4X6 X 8 PCS</p> <p>BRK For REF X 4 PCS</p> <p>Spring X 1 PCS</p>	 <p>Install to PLHB120LS4GSH or PLHB120LS5GSH</p>	 <p>Install to PLHB200LS4GSH or PLHB200LS5GSH</p>

 <p>HBBRKT X 1 PC</p>	<p>PLHB120LS4GSH PLHB120LS5GSH PLHB200LS4GSH PLHB200LS5GSH</p> <p>Bracket base X 2 PCS</p> <p>Screw T1M5X10 X 8 PCS</p> <p>Spring washer M5 X 8 PCS</p> <p>Washer M5 X 8 PCS</p>	 <p>Install to PLHB120LS4GSH / PLHB120LS5GSH / PLHB200LS4GSH or PLHB200LS5GSH</p>
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 <p>HBDUSTCOV X 1 PC</p>	<p>PLHB120LS4GSH PLHB120LS5GSH PLHB200LS4GSH PLHB200LS5GSH</p> <p>Screws T1M3X4 X 2 PCS</p>	 <p>Install to PLHB120LS4GSH / PLHB120LS5GSH / PLHB200LS4GSH or PLHB200LS5GSH</p>
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 <p>HBROBRKT X 3</p>	<p>PLHB120LS4GSH PLHB120LS5GSH PLHB200LS4GSH PLHB200LS5GSH</p> <p>2-1 Unscrew screws</p> <p>2-2 Remove eyebolt</p>	 <p>3-2 Lock the screw beside the hole</p> <p>3-1 Assembly the rod mounting to luminaire</p> <p>3-3. Lock the nut in the screw, and the nut is snug against the light fixture</p> <p>3. Assembly the rod mounting to luminaire.</p>	 <p>4. Install the luminaire on the ceiling with 3 expansion screws, then plug in power.</p>
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<p>1-1 Drill 3 holes in ceiling (x3)</p> <p>1. Drill 3 holes in ceiling.</p> <p>Install to PLHB120LS4GSH / PLHB120LS5GSH / PLHB200LS4GSH or PLHB200LS5GSH</p>	<p>4-2 plug in power</p> <p>4-1 Lock the expansion screw</p>
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