

# **LITE**TRONICS®

## ***HighBay Luminaire***

### ***Installation Instructions***

Base Product & Accessories for: HB125, 185 and 220 series  
luminaires with and without dimming.



# INSTALLATION AND ASSEMBLY INSTRUCTIONS

## PLEASE READ ENTIRE DOCUMENT BEFORE INSTALLATION

HB125, 185 and 220 series luminaires with and without dimming.  
Standard: Glass lens (frosted and clear) suitable for wet locations (IP65 rated).  
Optional: Shatterproof polycarbonate lens (frosted and clear) which is good for dry locations only.

Note: Save these instructions for future reference.

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## INTRODUCTION & TABLE OF CONTENTS

Congratulations on the purchase of your LED HighBay. It is usable alone or with a range of accessories. Instructions for some of the most popular of these are included here.

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## SAFETY INSTRUCTIONS AND WARNINGS

### WARNING:

Risk of fire or electric shock. High Bay luminaire installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

Be certain electrical power is OFF before and during installation and maintenance.  
High Bay luminaire must be connected to a wiring system with an equipment – grounding conductor.  
Make sure the supply voltage is same as the rated luminaire voltage

Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of this kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or sharp objects.

No user serviceable parts inside of High Bay Luminaire.

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### Tools typically used for base product installation:

Wire Stripper *(optional)*

Wire Cutter *(optional)*

## INSTALLATION AND ASSEMBLY INSTRUCTIONS

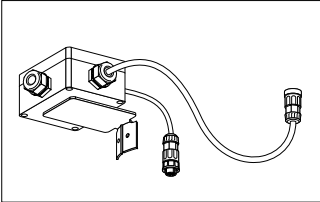
LED High Bay Luminaire base product comes with following standard parts:



**LED HIGH BAY ACCESSORIES**

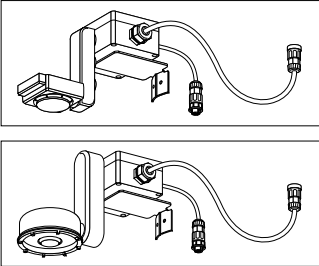
The following accessories for the LED HighBay luminaire are addressed in these instructions

Section 2 - Junction Box with Bracket



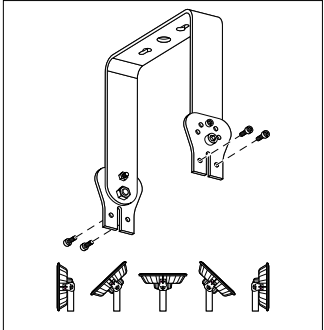
Junction Box with Bracket

Section 3 - Occupancy Sensors

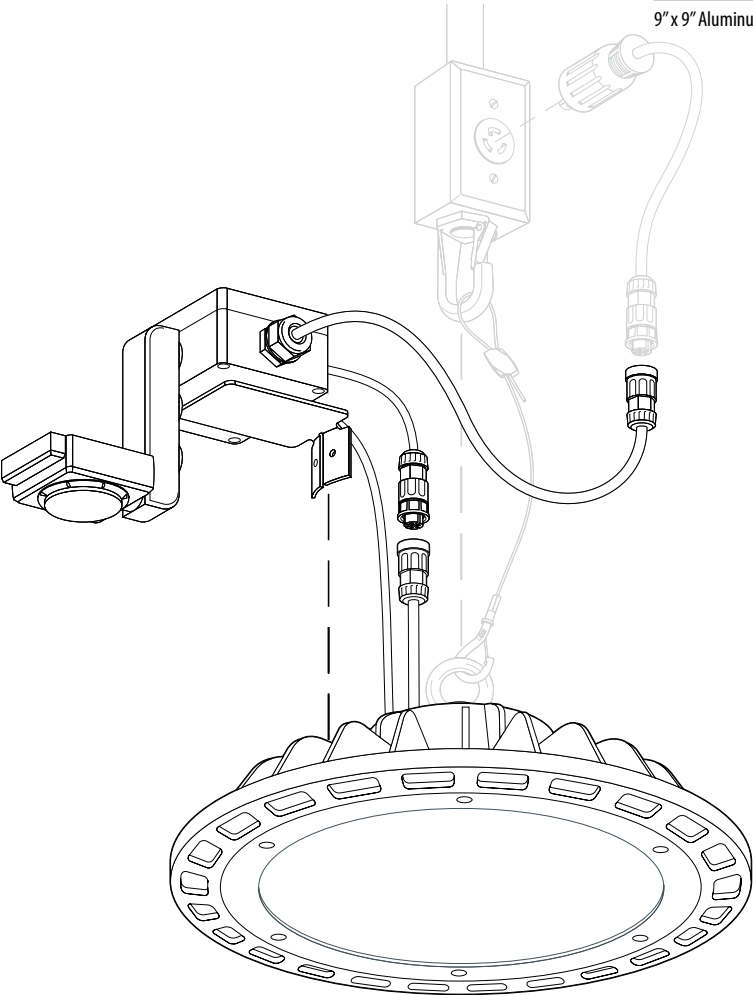


IP 20 PIR Motion Sensor with Junction Box  
IP 65 PIR Motion Sensor with Junction Box

Section 4 - Yoke Mounting



9" x 9" Aluminum Swivel Yoke Bracket



## Section 1

### INSTALLATION PROCEDURE- BASE PRODUCT

Input 120V or 277V using 3 strip wires with or without 0-10V dimmer

**1.** Turn off power at the circuit breaker and ensure that the power is off before wiring.



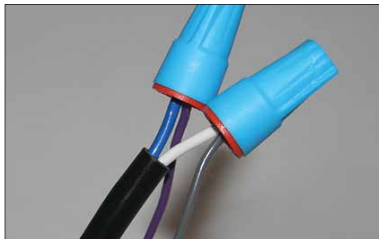
**2.** High Bay Luminaire should be mechanically supported by chain or cable by securing to snap-lock hook or optional round hook Litetronics part # HBAM20 or HBAM21 on top of fixture.



**3.** When installing without dimmer (0-10V) in wet locations: Ensure that white and blue wires are each covered with a waterproof nut (supplied). When installing in dry locations, ensure white and blue wires are not crossed.



**4.** When installing dimmer (0-10V): Connect 0-10V dimmer wires to dimmer control as per manufacturer instructions with dim (+) blue and dim (-) white from High Bay luminaire with waterproof nuts (supplied). Follow **wiring diagram # 1** on page 5 to connect 0-10V dimmer and 120-277V power. Follow dimmer control manufacturer instructions for more details.



**5.** Connect wire cord to AC branch circuit as per following. It should be in accordance with national and local codes.

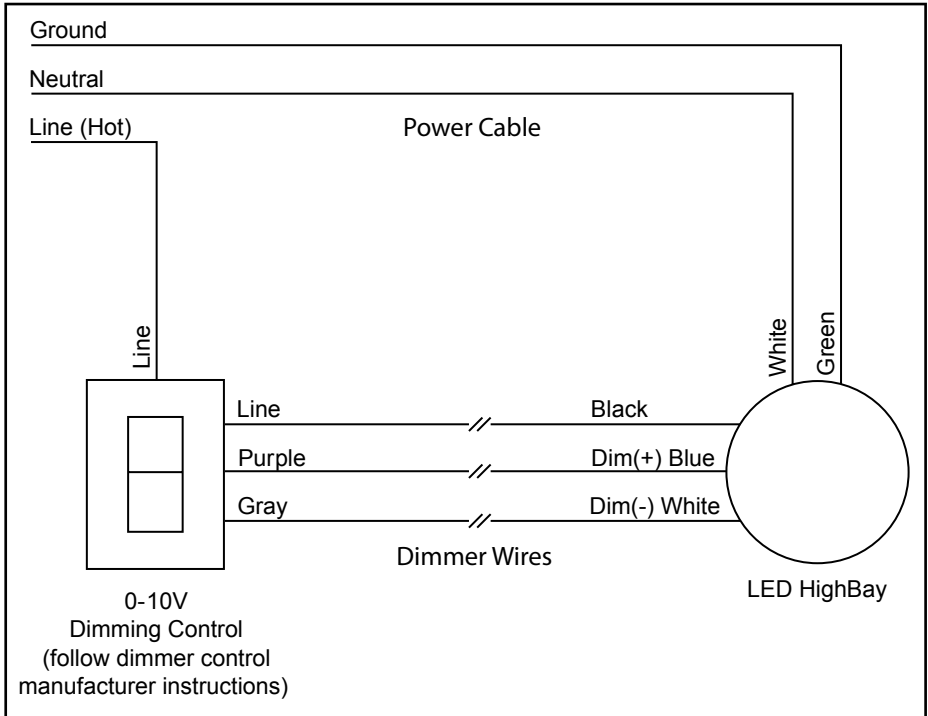
- Connect black wire to line (hot)
- Connect white wire to neutral
- Connect green to ground



# Section 1

## INSTALLATION PROCEDURE- BASE PRODUCT

Input 120V or 277V using 3 strip wires with or without 0-10V dimmer



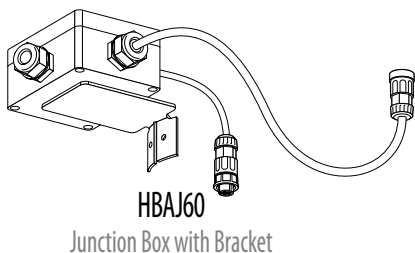
**6.** Restore power at circuit breaker and subsequently switch on dimmer (if applicable) and enjoy High Bay luminaire.



## Section 2

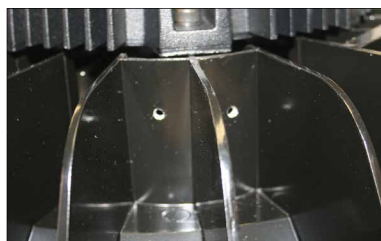
### INSTALLATION PROCEDURE

#### OPTIONAL ACCESSORY - Junction box with Bracket: HBAJ60 (For use with 3rd party sensors)

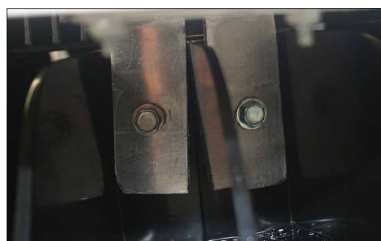


Junction box shown separately, also comes pre-assembled to occupancy sensors HBAS40 and HBAS41

**1.** Look for 2 holes on curved surface of housing where bracket will be installed.



**2.** Open junction box: Unscrew 4 cover screws in corners. Take out the two self-tapping screws in bag from junction box. Use the two 6-20 1/2" self-tapping screws pan Phillips / hex head to affix junction box as shown with help of screw driver or 1/4" nut driver.



**3.** Remove preconnected input cable with 3 stripped wires by twisting connector anticlockwise.



**4.** Mate waterproof twist male connector on High Bay with female connector on junction box by twisting clock-wise to lock to driver wire.



## Section 2

### INSTALLATION PROCEDURE

#### OPTIONAL ACCESSORY - Junction box with Bracket: HBAJ60

**5.** Mate junction box connector and chosen Litetronics cable accessory by twisting clockwise.



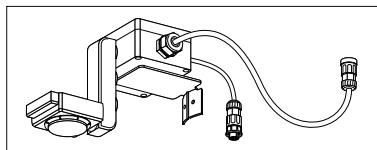
**6.** Restore power at circuit breaker and subsequently switch on dimmer (if applicable) and enjoy High Bay luminaire.



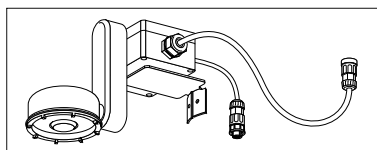


# INSTALLATION PROCEDURE

## OPTIONAL ACCESSORY - Occupancy Sensor: HBAS40 or HBAS41



**HBAS40**  
IP 20 PIR Motion Sensor  
with Junction Box



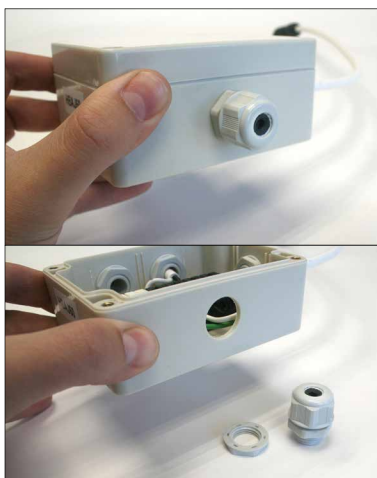
**HBAS41**  
IP 65 PIR Motion Sensor  
with Junction Box

Follow steps 1-11 when junction box is provided separate of occupancy sensors (HBAS40 and HBAS41)

**1.** Open junction box: Unscrew 4 cover screws in corners. Take out the two self-tapping screws in bag from junction box. Note: If junction box is already installed, you can detach/loosen from High Bay to make installation easier.



**2.** Remove the solid cable gland on opposite side of junction box from High Bay for sensor install.



**3.** For HBAS40 and HBAS41 sensor install, first remove pre-attached sensor nut.



## Section 3

# INSTALLATION PROCEDURE

## OPTIONAL ACCESSORY - Occupancy Sensor: HBAS40 or HBAS41

**4.** Insert sensor wires through junction box hole opening and slide sensor nut back over wires. Do not tighten to sensor yet.

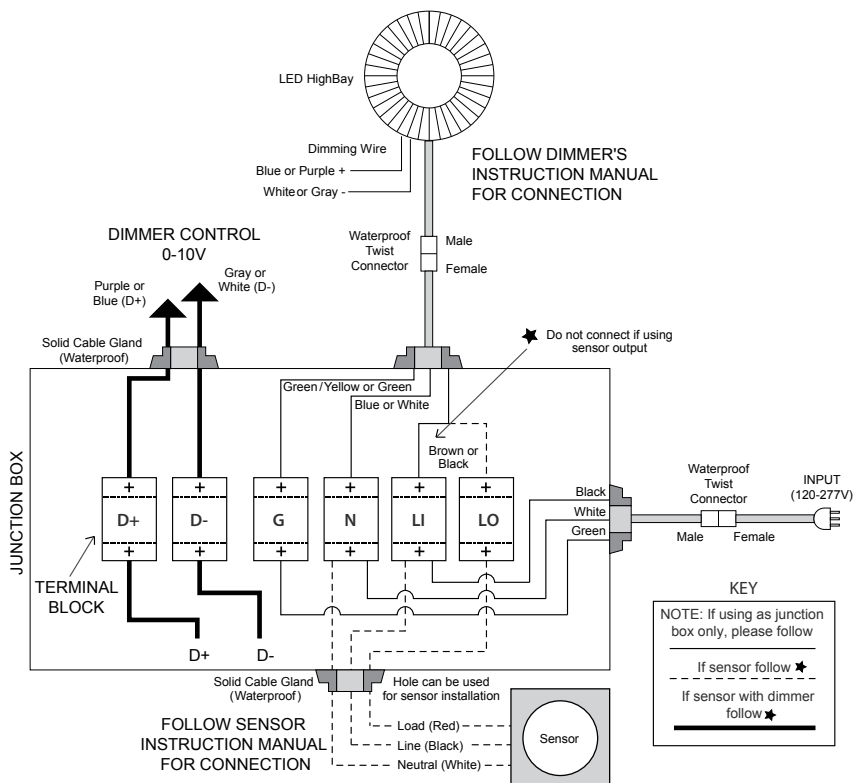


**5.** Connect sensor wires to junction box using feed through terminal blocks as per wiring diagram 2 & 3. Ensure rubber washer is installed for wet locations.

- Disconnect black wire of LED High Bay from (LI) and connect to (LO).
- Connect sensor black wire to Line (LI).
- Connect sensor white wire to Neutral (N).
- Connect sensor red wire to (LO).



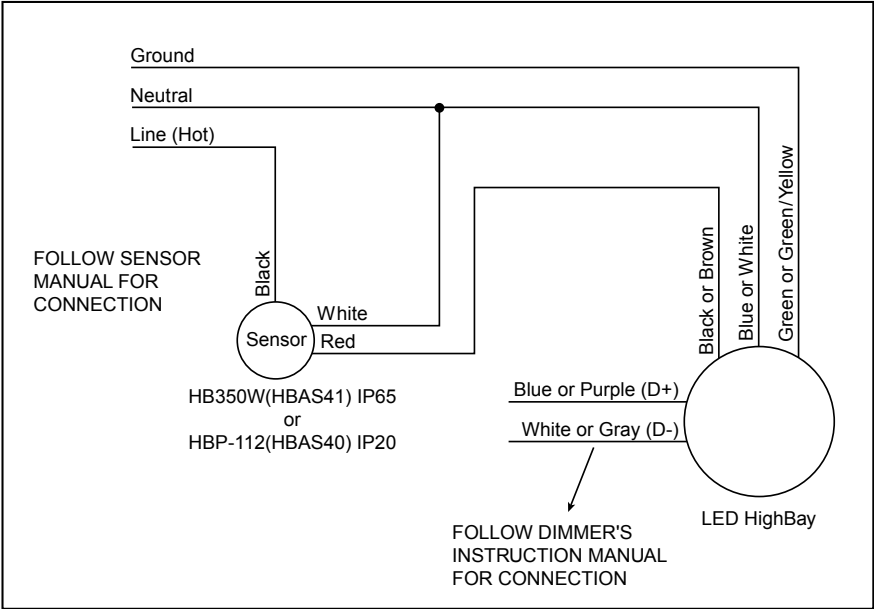
WIRING DIAGRAM # 2



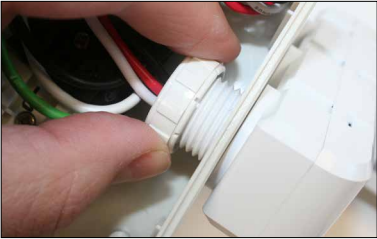
# INSTALLATION PROCEDURE

OPTIONAL ACCESSORY - Occupancy Sensor: HBAS40 or HBAS41

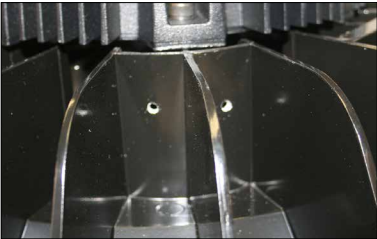
WIRING DIAGRAM # 3



**6.** Once internal wiring is complete, tighten the sensor nut to junction box.



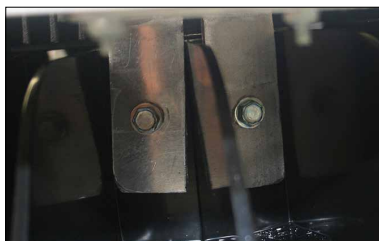
**7.** Attach or reattach junction box and sensor to High Bay using provided screws to curved 2 holes.



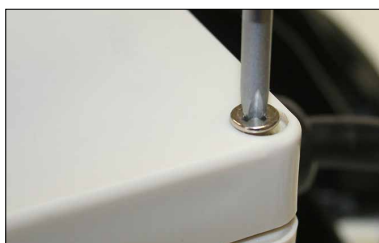
### INSTALLATION PROCEDURE

#### OPTIONAL ACCESSORY - Occupancy Sensor: HBAS40 or HBAS41

**8.** Take out the two self-tapping screws in bag from junction box. Use the two 6-20 1/2" self-tapping screws pan Phillips / hex head to affix junction box as shown with help of screw driver or 1/4" nut driver.



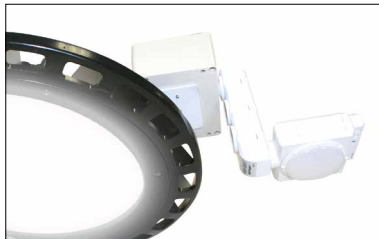
**9.** Close the junction box and tighten with screws and position sensor accordingly.



**10.** Restore power at circuit breaker and subsequently switch on dimmer (if applicable) and enjoy High Bay Luminaire.

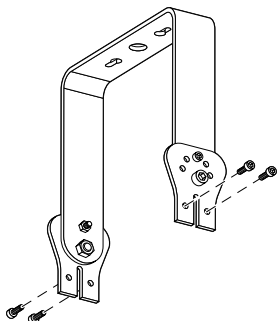


**11.** Program sensor/dimmer as per instructions in manufacturer manual.



### INSTALLATION PROCEDURE

#### OPTIONAL ACCESSORY - Yoke Mount: HBAM22 and HBAM23



#### HBAM22

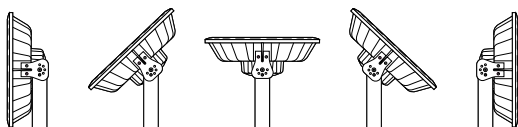
9" X 9" Aluminum Swivel

Yoke Bracket Black

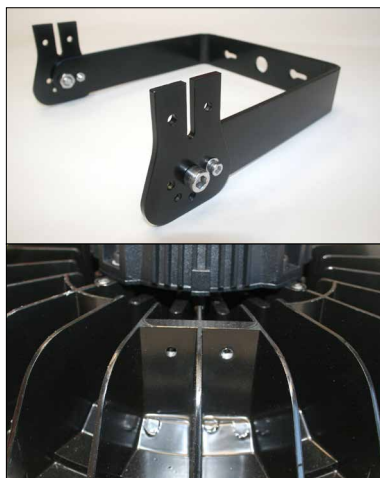
#### HBAM23

9" X 9" Aluminum Swivel

Yoke Bracket White



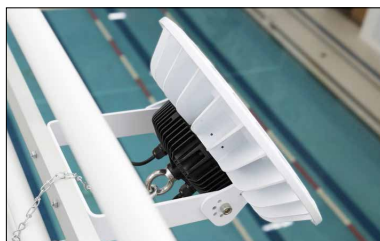
**1.** For mounting High Bay to use with multiple angles, attach pre assembled yoke bracket (part HBAM22 or HBAM23) to High Bay luminaire with (4) M6x15 socket head type screws. Tip: Look for the flat surface with pre-drilled holes to attach yoke bracket. Do not use curved surface with holes.



**2.** Once yoke bracket is connected to High Bay, use (2) M6x15 socket head type screws with hex nut to set bracket angle, and then tightly fix all screws.



**3.** Properly assembled yoke bracket can be mounted with bolts, anchors or screws depending using holes on yoke bracket.



Thank you for choosing

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