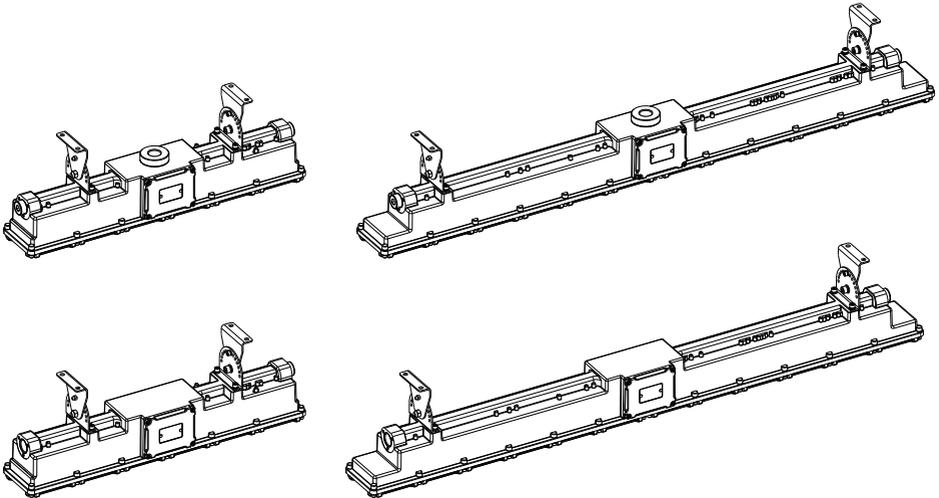


# LED Luminaires for Hazardous Locations

## EXA06 Series Installation and Operation Instructions



**RIG-A-LITE**  
**EX-SERIES**

8500 Hansen Rd.  
Houston, TX 77075 USA  
Tel: (713) 943-0340  
[availinfra.com/rig-a-lite/](http://availinfra.com/rig-a-lite/)



### This product comply with below standard:

UL 50 UL 50E  
UL 1598 UL 1598A  
UL 8750  
UL 844  
UL 924  
CSA C22.2 No. 94.1  
CSA C22.2 No. 94.2  
CSA C22.2 No. 137  
CSA C22.2 NO.141  
CSA C22.2 No. 250.0

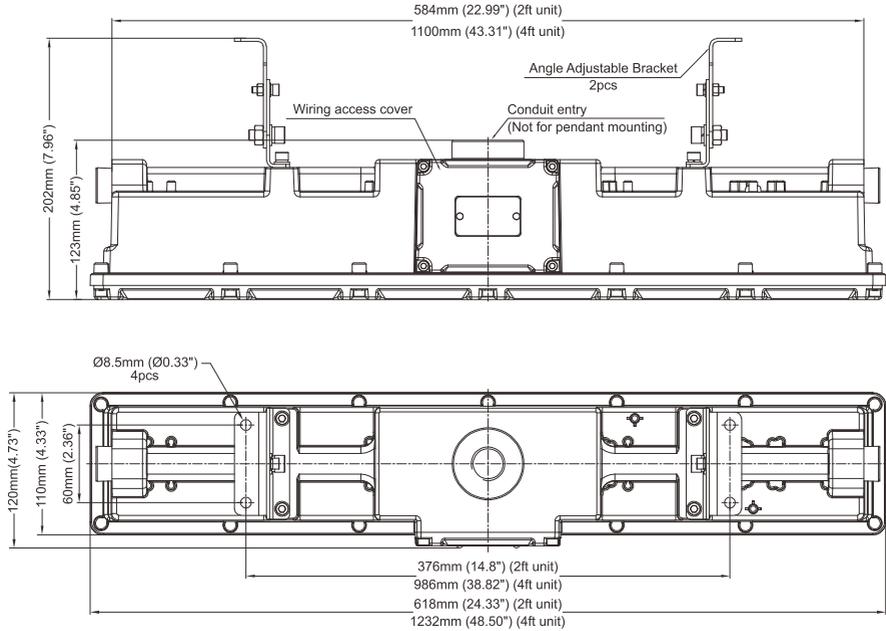
### Certifications:

Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups F, G  
Class III  
Simultaneous Presence  
Suitable for Use Wet Locations  
Suitable for Marine locations  
Emergency Battery Back-up  
Type 4X  
IP66

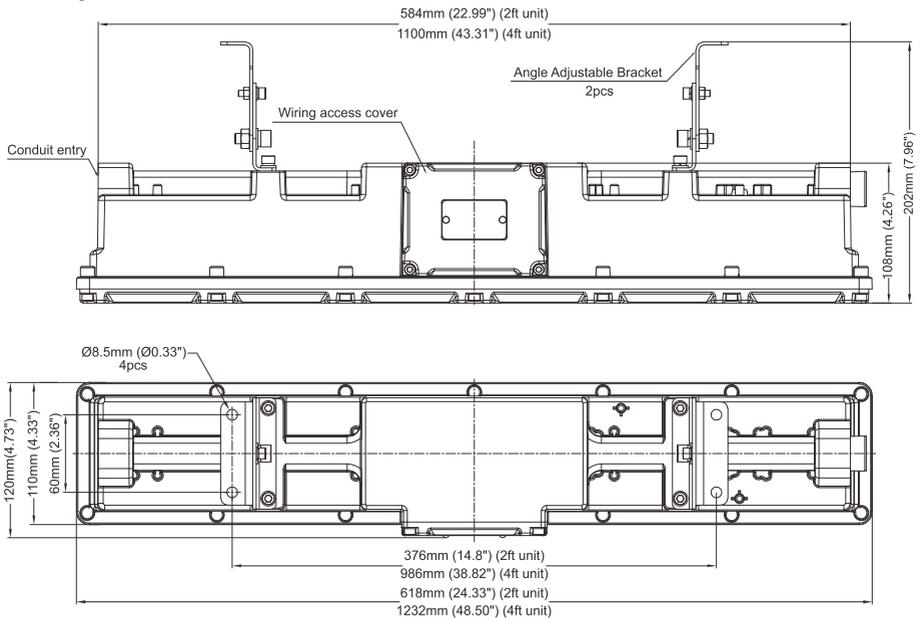
**Typical application sites are:** Chemical plant, oil and gas refineries, drilling rigs, petrochemical facilities, pulp and paper plant, foundries, waste and sewage treatment plant, pharmaceutical plant, mining, power generation, paint spray booths and where flammable vapors, gases, ignitable dusts, fibers or flying are present.

# Physical Dimensions (Unit: mm/inch)

## Cable entry from the top



## Cable entry from the side



**Notice: 2ft include: 30W, 40W, 50W 4ft include: 60W, 70W, 80W, 100W**

## Product Specifications

Power	30W	40W	50W	60W	70W	80W	100W
Input Voltage	100-277Vac/277-480Vac, 50 / 60 Hz						
Outlook Dimensions	Ceiling Mount	618x150x202mm (24.33"x5.91"x7.96")			1232x150x202mm (48.50"x5.91"x7.96")		
	Trunnion Mount	618x120x202mm (24.33"x4.73"x7.96")			1232x120x202mm (48.50"x4.73"x7.96")		
	Hoop Mount	618x125x225mm (24.33"x4.91"x8.84")			1232x125x225mm (48.50"x4.91"x8.84")		
	Loop Mount	618x125x218mm (24.33"x4.91"x8.57")			1232x125x218mm (48.50"x4.91"x8.57")		
	Pendant Mount	618x120x178mm (24.33"x4.73"x6.99")			1232x120x178mm (48.50"x4.73"x6.99")		
Luminaire Net Weight	Ceiling Mount	3.4kg (7.48Lbs)			5.0kg (11Lbs)		
	Trunnion Mount	3.5kg (7.7Lbs)			5.1kg (11.22Lbs)		
	Hoop Mount	3.5kg (7.7Lbs)			5.1kg (11.22Lbs)		
	Loop Mount	3.4kg (7.48Lbs)			5.0kg (11Lbs)		
	Pendant Mount	3.3kg (7.26Lbs)			4.9kg (10.78Lbs)		
Emergency model	EM Wattage & EM time	9W 1.5h (Input Voltage: 100-277Vac, 50 / 60 Hz)					
	Battery Capacity	6.4V 3200mAh					
Working Temperature	-40°C to +55°C (-40°F to +131°F) (Only 30W/40W/60W/70W/80W) -40°C to +45°C (-40°F to +113°F) (Only 50W) -40°C to +40°C (-40°F to +104°F) (Only 100W) 0°C to +55°C (32°F to +131°F) (Only Emergency model 30W/40W/60W/70W/80W) 0°C to +45°C (32°F to +113°F) (Only Emergency model 50W) 0°C to +40°C (32°F to +104°F) (Only Emergency model 100W)						
Storing Temperature	-40°C to +70°C (-40°F to +158°F)						

\* The tolerance for weight is ±6%.

## Luminaire Shipping Packing List

Name	QTY
EXA06 Series Luminaire	1 pc
EXA06 Series Installation and operation instructions	1 pc

## Model Description

Model description:

**EXA 06-XXX-X-XX-XXX-XX-X-XX**

Options: EM=Emergency Battery; DM=Dimmable  
 Mounting Style: C=Ceiling Mount; T=Trunnion Mount; H=Hoop Mount; L=Loop Mount; P=Pendant mount  
 Diffusion Material: CP=Clear Polycarbonate; DP=Diffused Polycarbonate  
 Beam Distribution: 000=120°(No lens)  
 001=F01601; 002=F01602; 003=F01603; 004=F01604; 005=F01605; 006=F01606  
 008=F01608; 009=F01609; 010=F01610; 011=F01611; 012=F01612; 013=F01613  
 CCT(K): 20=2000; ... ; 65=6500; Re=Red; Gr=Green; Bl=Blue; Am=Amber  
 Voltage: U=100-277Vac,50/60Hz; V=277-480Vac,50/60Hz  
 Lamp Wattage: 030=30W; 040=40W; 050=50W; 060=60W; 070=70W; 080=80W; 100=100W  
 Lamp Code: 06  
 Series constant: EXA-Hazardous

# Installation and Operation Instructions

## Dear Customers and Users:

Thank you very much for purchasing our product. In order to better understand how to use this product safely, please read this instruction patiently and carefully. And please keep the manual properly for future reference.

## Warnings:

1. The product can be connected to a power supply of 100-277Vac, 50/60Hz or 277-480Vac, 50/60Hz, as specified on the label on the product.
2. DO NOT dismantle, modify or replace any internal electronic components. If you have any confusion during installation, please contact local dealer or contact us directly.
3. Please be sure to turn off the power before installation, maintenance or any other actions that may touch the light.
4. DO NOT install the lights on the surface that is easy to be damaged and deformed.
5. Under no circumstances can this light be covered with thermal insulation or any other similar materials.
6. If emergency or abnormality occurs, please cut off the power firstly and contact your local dealer as soon as possible.
7. The product is suitable for both indoor and outdoor use.
8. Any installation and maintenance must be performed by certified electricians only.
9. Do not use this luminaire on an ungrounded circuit, otherwise it can cause a fatal electric shock.
10. Do not look directly at the LEDs when energized.

## Safety Installation Guides

It's very important to cut off the power before removing the fixtures. Also, installer needs to be a qualified electrician. Remember, cut off power for at least 5 minutes then operate the removal.

### ● On-site installing

This manual is to provide the user with professional installation information, because the lamp is used in hazardous areas, the qualified electrician is required. The conduit entry is NPT thread or metric thread (See the nameplate for details), please select suitable conduit for installation.

### ● Use and setting-up

All wires need to be tested for proper connection and safe installation before use. In order to avoid the risk of electrical damage and installation safety problem, these jobs must be performed by a qualified electrician.

### ● Assembling and dismantling

Installer needs to read the instruction carefully before processing the assembling. Please feel free to contact the manufacturer if there is confusion during the installation.

### ● Training instructions for a safe use

Regards the wiring diagram please refers to installation detailed instruction below. Normally, brown (or black) wire connects to live wire, blue (or white) to nature wire, green with yellow (or green) strips to the grounding.

**CAUTION:** To Reduce The Risk Of Ignition Of Hazardous Atmospheres, Disconnect The Luminaire From The Supply Circuit Before Opening. Keep Tightly Closed When In Operation

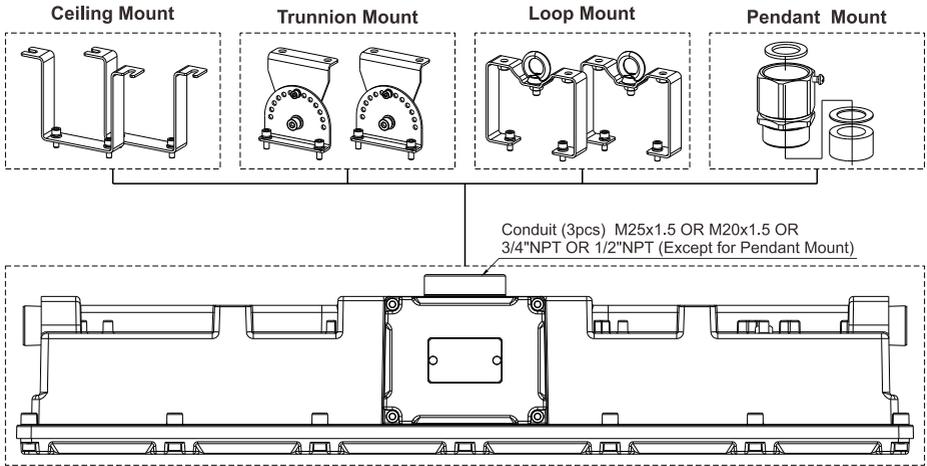
**ATTENTION:** Pour réduire le risque d'inflammation d'atmosphères dangereuses, débranchez le luminaire du circuit d'alimentation avant de l'ouvrir. Garder hermétiquement fermé lors de l'utilisation

## Emergency model:

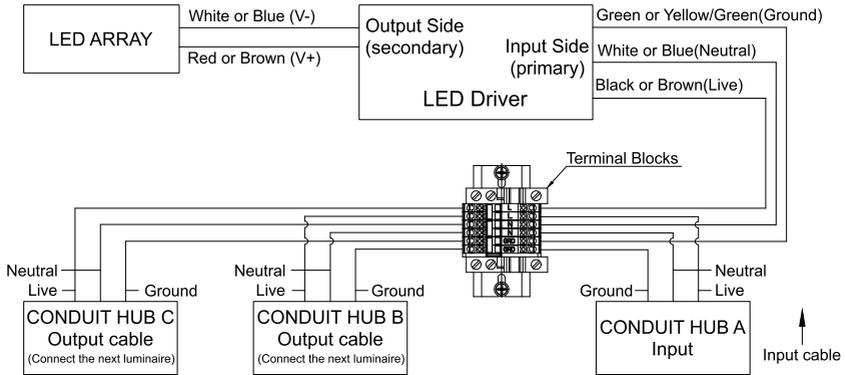
WARNING - EXPLOSION HAZARD - BATTERIES MUST ONLY BE CHANGED IN AN AREA FREE OF IGNITIBLE CONCENTRATIONS.

AVERTISSEMENT - RISQUE D'EXPLOSION - LES BATTERIES DOIVENT ÊTRE CHANGEÉES UNIQUEMENT DANS UNE ZONE EXEMPT DE CONCENTRATIONS INFLAMMABLES.

# Wiring Diagram (Cable entry from the top)

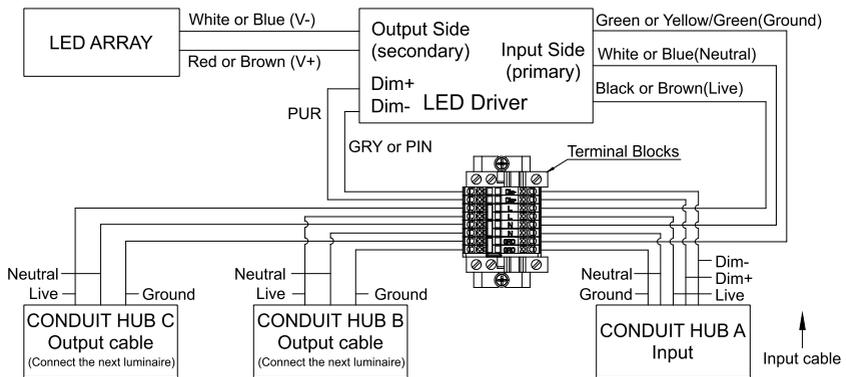


## Non-Dimmable



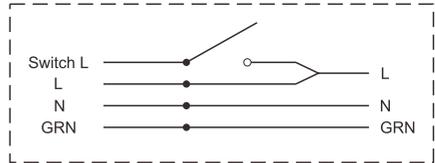
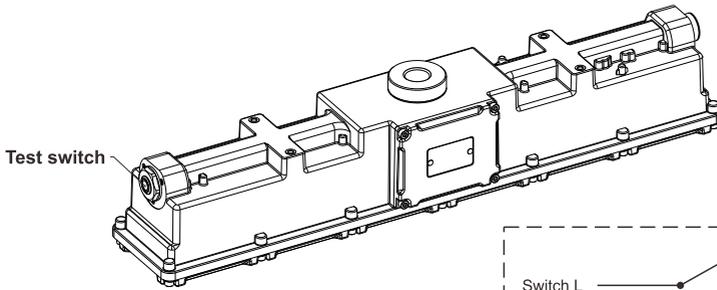
Notice: CONDUIT HUB B and C can be used for interconnect luminaire and should be blocked with plugs when not in use.

## Dimmable



Notice: CONDUIT HUB B and C can be used for interconnect luminaire and should be blocked with plugs when not in use.

# Emergency

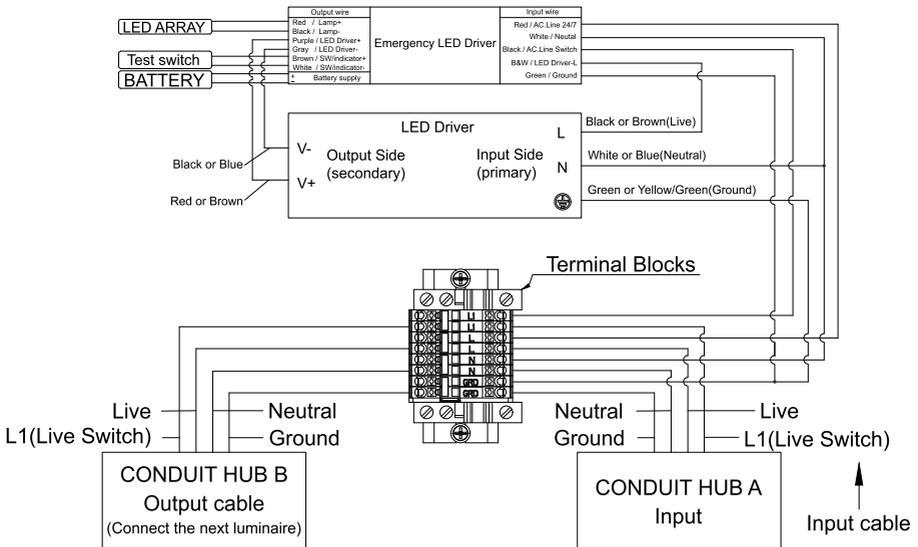


## Test switch with LED indicator:

**Test switch:** When the mains is connected, the emergency power module will work. If the test switch is pressed, the emergency power module will enter the emergency mode. If the switch is released, the lamp will enter the normal mains working mode, and the emergency power module will enter the charging mode.

**LED indicator:** LED indicator can indicate charging or non-charging status.

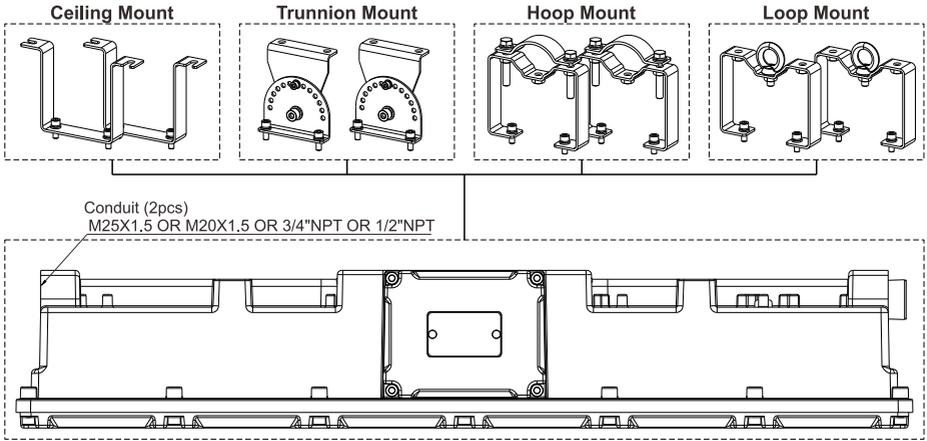
When the battery is connected and there is mains power, the LED indicator lights up red, indicating that it is charging or fully charged; when the battery is not connected or there is no mains power supply or the emergency mode is working, the LED indicator is off.



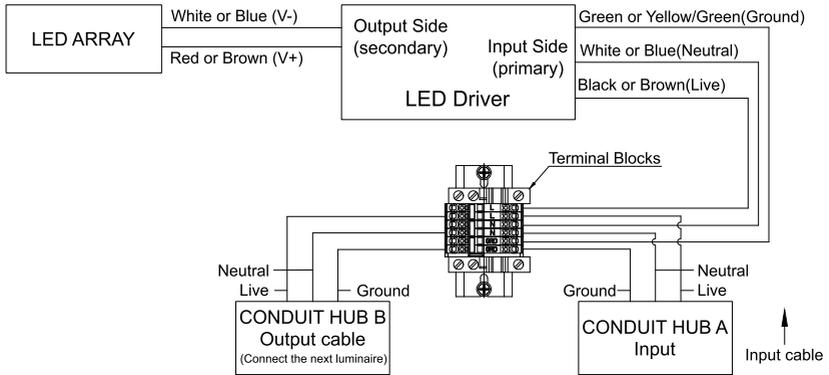
## Notice:

1. L1 (black wire) can be connected to a live wire switch (also called a normally-closed switch). When there is power, after turning off this switch (disconnect the live wire), the fixture would be off, but the battery is still in charging mode, and indicator would turn red. When the power is disconnected, the fixture would enter emergency mode.
2. When there is no need to connect the Live Switch, L1 (black wire) and L (brown wire) could be connected together.
3. CONDUIT HUB B can be used for interconnect luminaire and should be blocked with plugs when not in use.

# Wiring Diagram (Cable entry from the side)

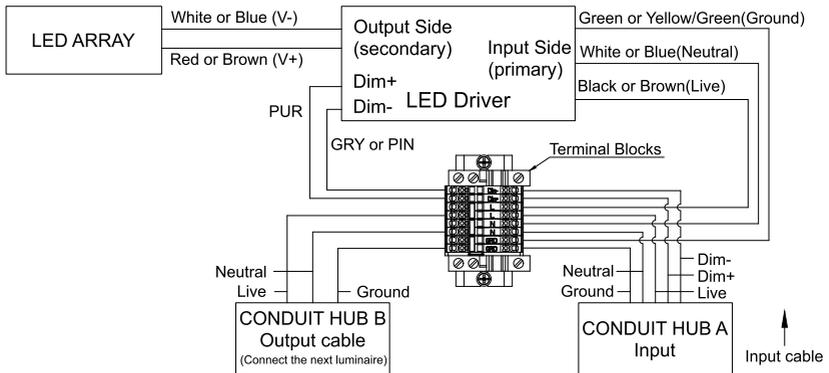


## Non-Dimmable



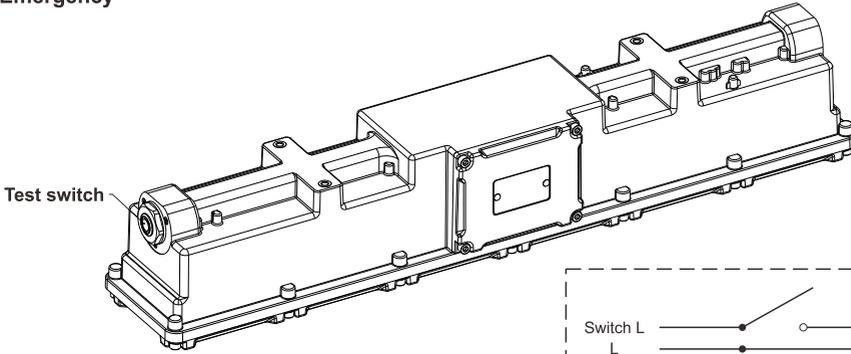
Notice: CONDUIT HUB B can be used for interconnect luminaire and should be blocked with plugs when not in use.

## Dimmable

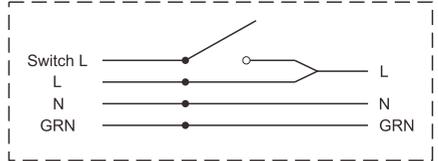


Notice: CONDUIT HUB B can be used for interconnect luminaire and should be blocked with plugs when not in use.

# Emergency



Test switch

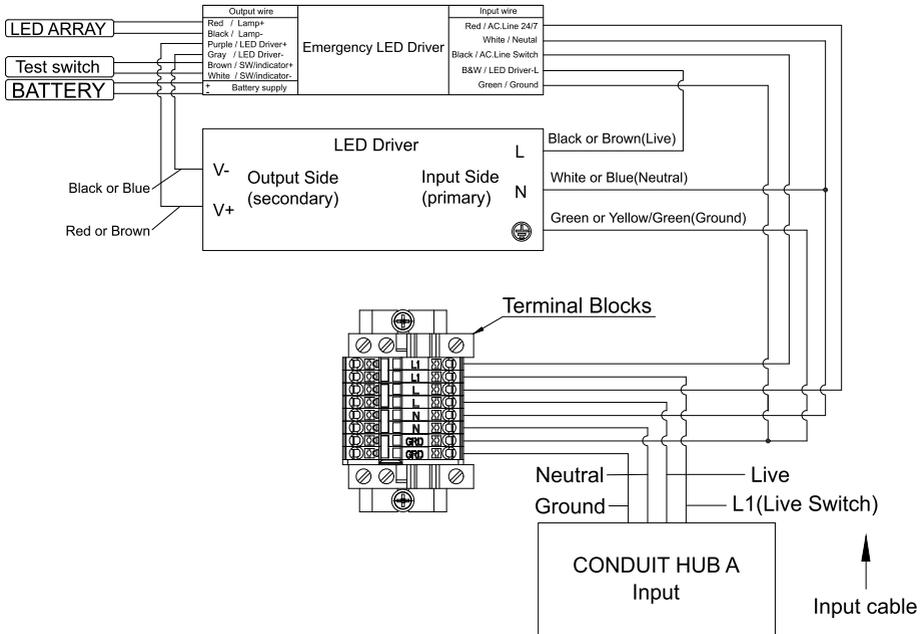


## Test switch with LED indicator:

**Test switch:** When the mains is connected, the emergency power module will work. If the test switch is pressed, the emergency power module will enter the emergency mode. If the switch is released, the lamp will enter the normal mains working mode, and the emergency power module will enter the charging mode.

**LED indicator:** LED indicator can indicate charging or non-charging status.

When the battery is connected and there is mains power, the LED indicator lights up red, indicating that it is charging or fully charged; when the battery is not connected or there is no mains power supply or the emergency mode is working, the LED indicator is off.

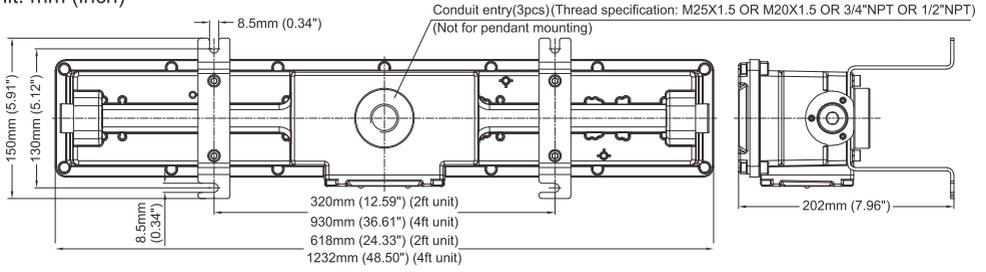


### Notice:

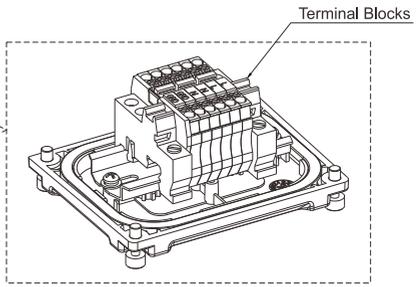
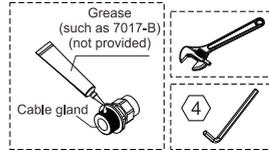
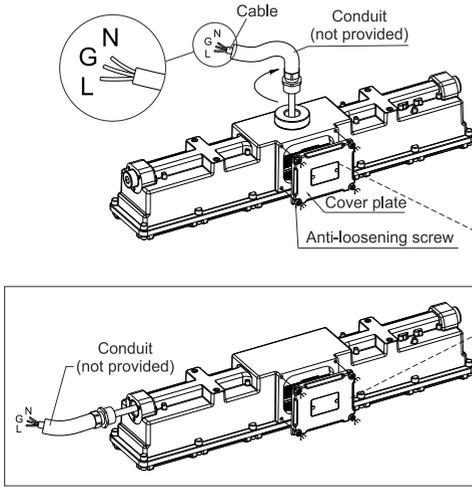
1. L1 (black wire) can be connected to a live wire switch (also called a normally-closed switch). When there is power, after turning off this switch (disconnect the live wire), the fixture would be off, but the battery is still in charging mode, and indicator would turn red. When the power is disconnected, the fixture would enter emergency mode.
2. When there is no need to connect the Live Switch, L1 (black wire) and L (brown wire) could be connected together.

# Ceiling Mount

Unit: mm (inch)



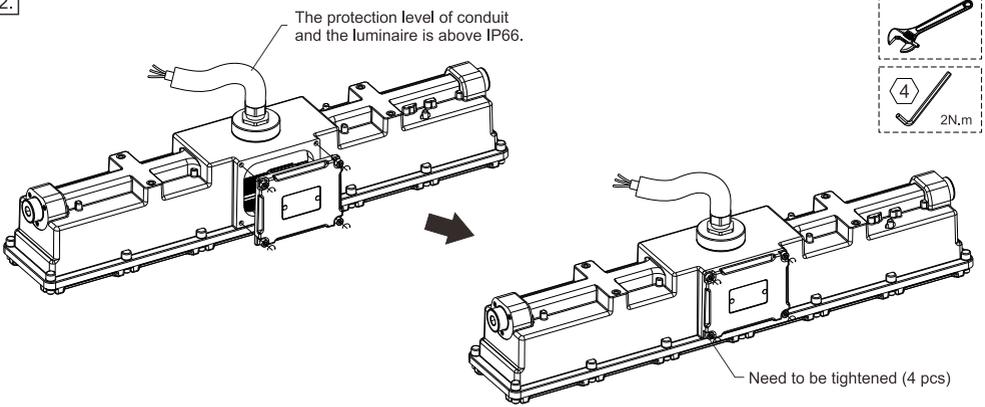
## 1. Cable entry from the top



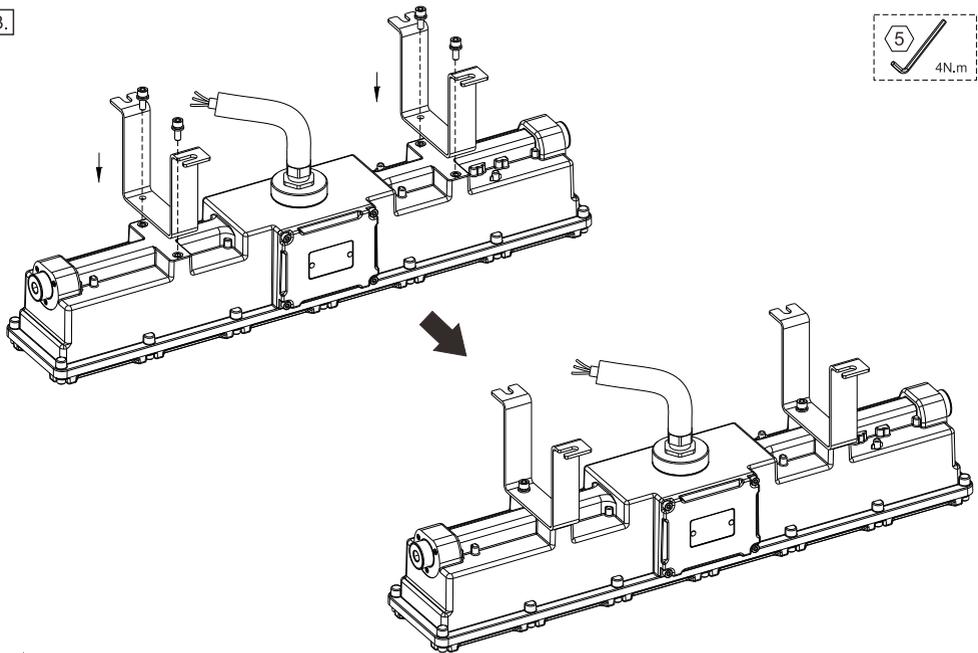
### ⚠ Notice:

1. Choose the appropriate cable and pay attention to the number of cores.
2. Choose the product that enters the line from the top or from the side according to the demand.
3. Wiring according to the wiring diagram.
4. Unused conduit entry need to be blocked with plugs.

## 2.



3.

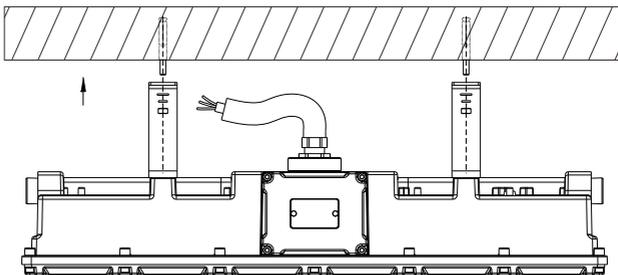


**Notice:**

If the product has already assembled this accessory, please ignore this step.

4.

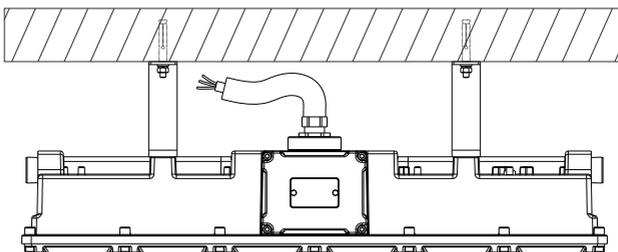
Recommended  
Expansion screws: M6~M8x60  
(not provided)



M6~M8x60 4pcs

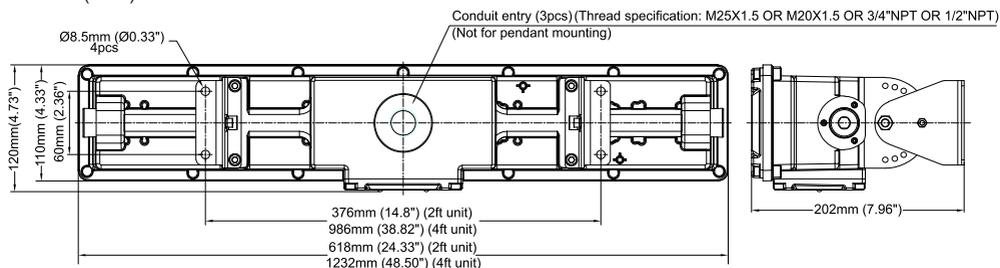
10 or 13

8N.m

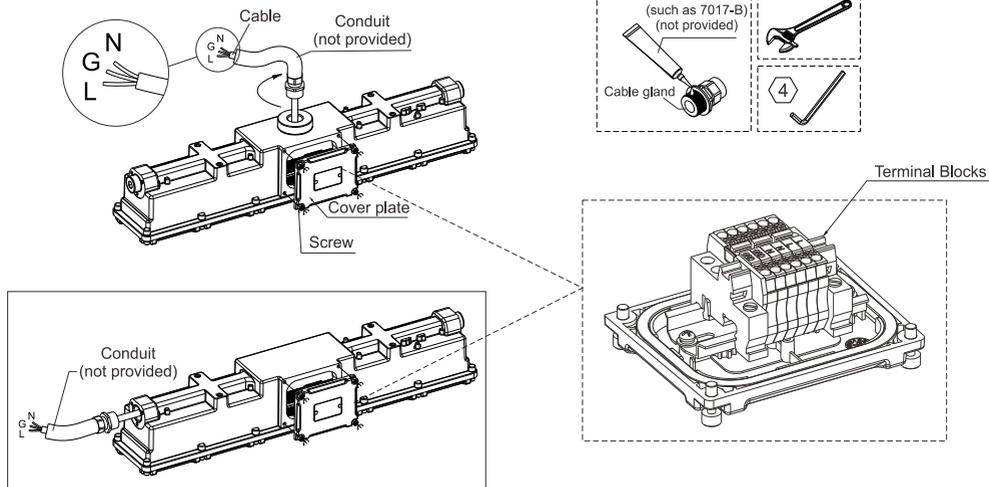


# Trunnion Mount

Unit: mm (inch)



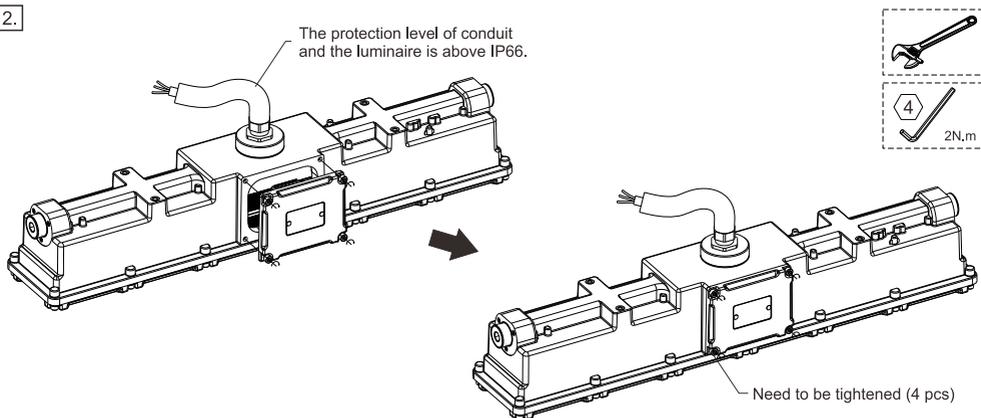
## 1. Cable entry from the top



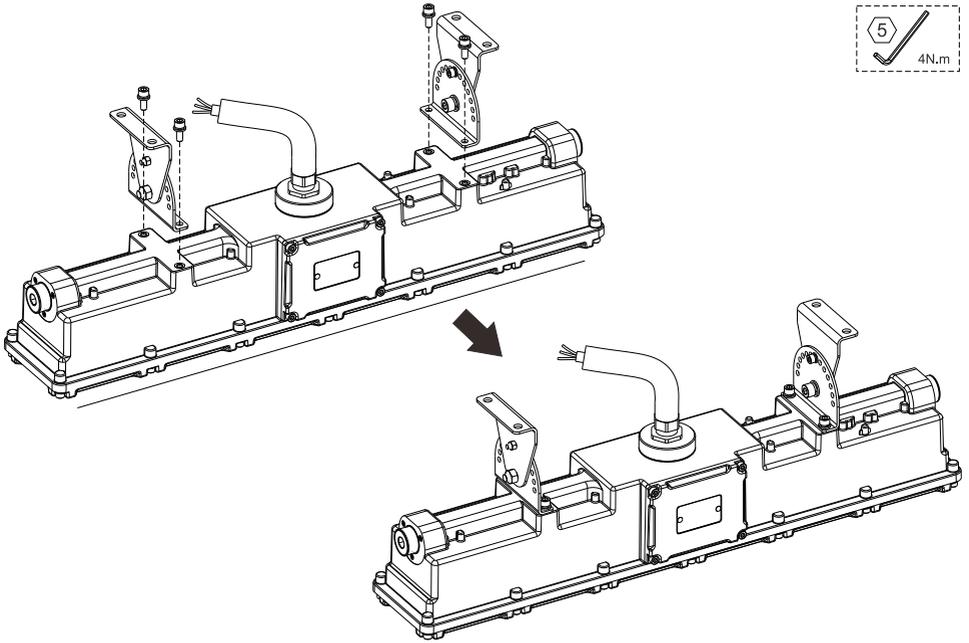
### ⚠ Notice:

1. Choose the appropriate cable and pay attention to the number of cores.
2. Choose the product that enters the line from the top or from the side according to the demand.
3. Wiring according to the wiring diagram.
4. Unused conduit entry need to be blocked with plugs.

## 2.



3.

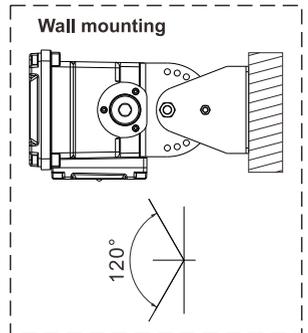
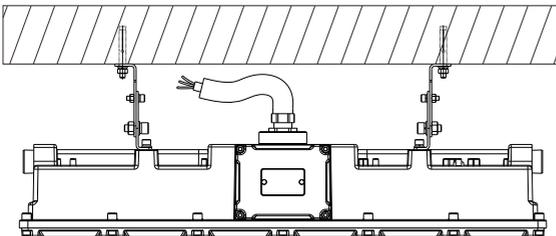
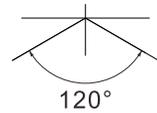
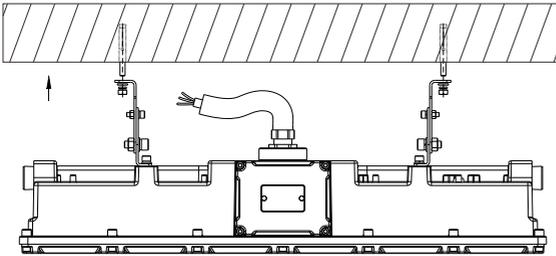
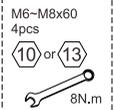


**Notice:**

1. Pay attention to the installation direction of the bracket.
2. If the product has already assembled this accessory, please ignore this step.

4.

Recommended  
Expansion screws: M6-M8x60  
(not provided)

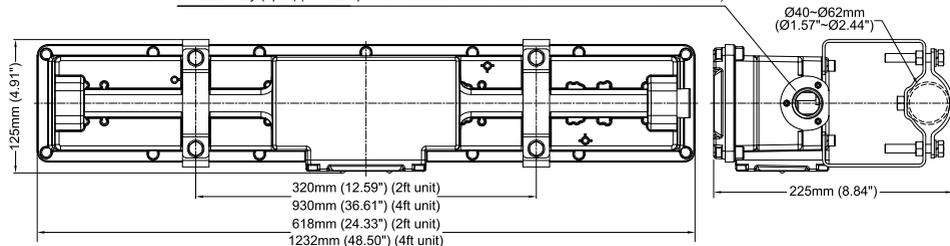


Notice: For Class II installations only. Fixture mounting range is limited to lens down to horizontal.

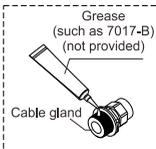
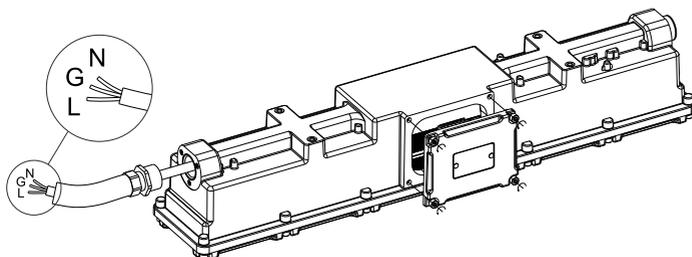
# Hoop Mount

Unit: mm (inch)

Conduit entry (2pcs) (Thread specification: M25X1.5 OR M20X1.5 OR 3/4"NPT OR 1/2"NPT)

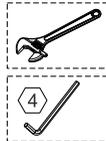


## 1. Cable entry from the side

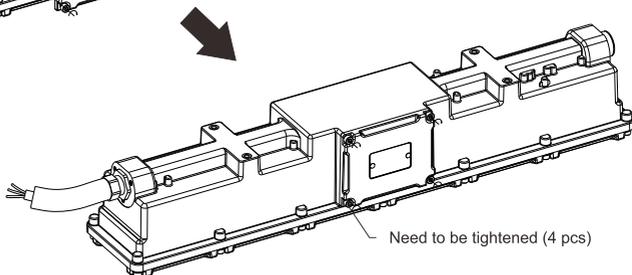
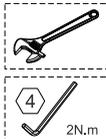
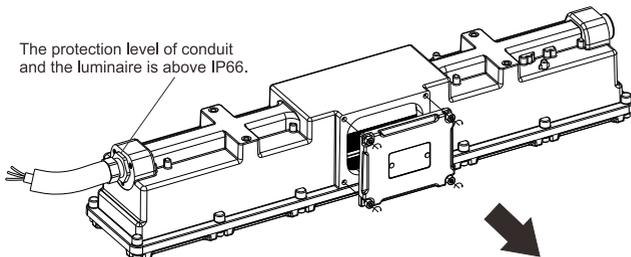


### ⚠ Notice:

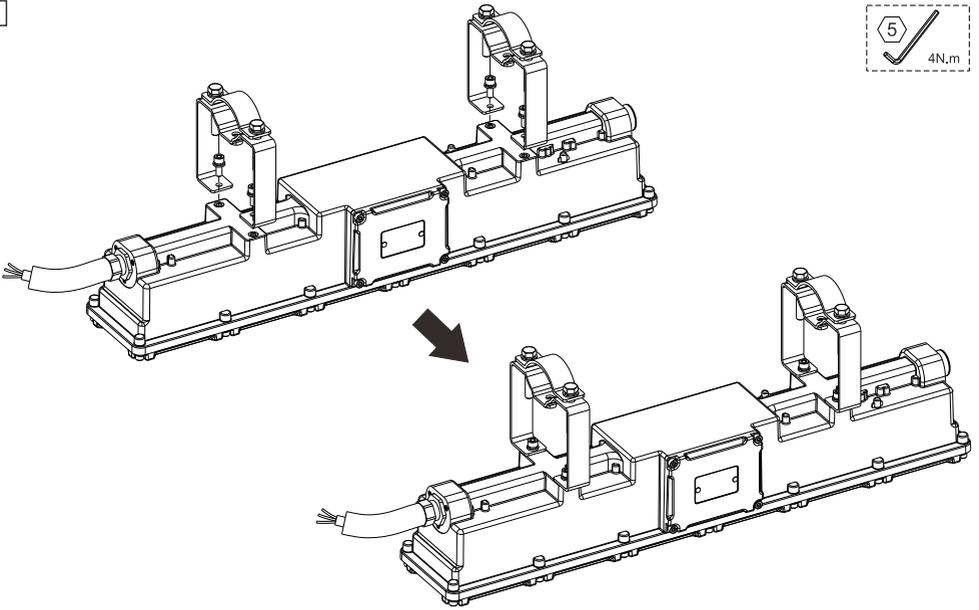
1. Choose the appropriate cable and pay attention to the number of cores.
2. Wiring according to the wiring diagram.
3. Unused conduit entry need to be blocked with plugs.



## 2.



3.

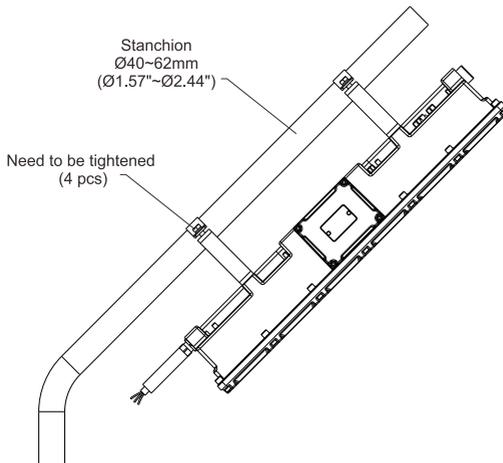
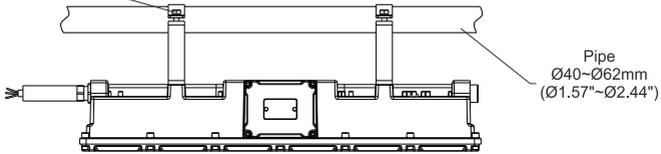
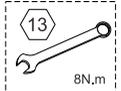


**Notice:**

If the product has already assembled this accessory, please ignore this step.

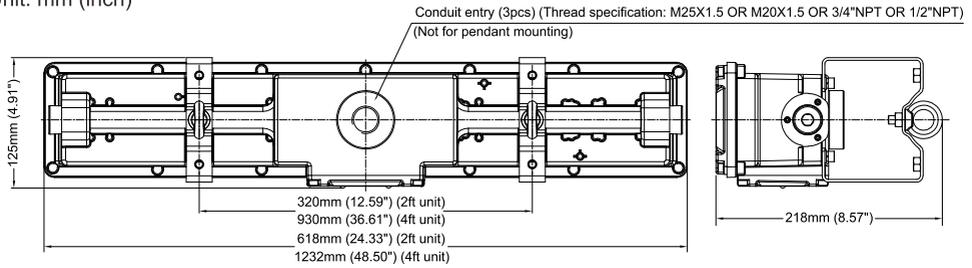
4.

Hex Bolts: M8x50 (4 pcs)

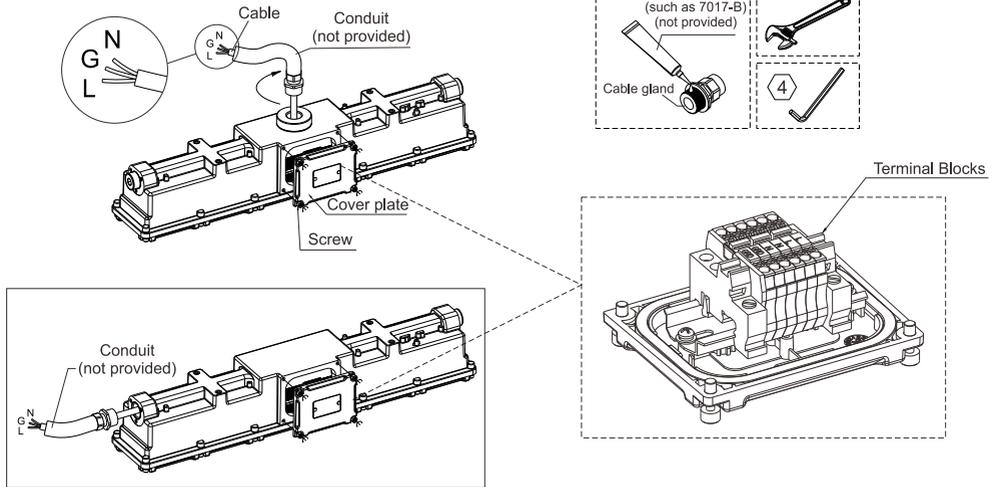


# Loop Mount

Unit: mm (inch)

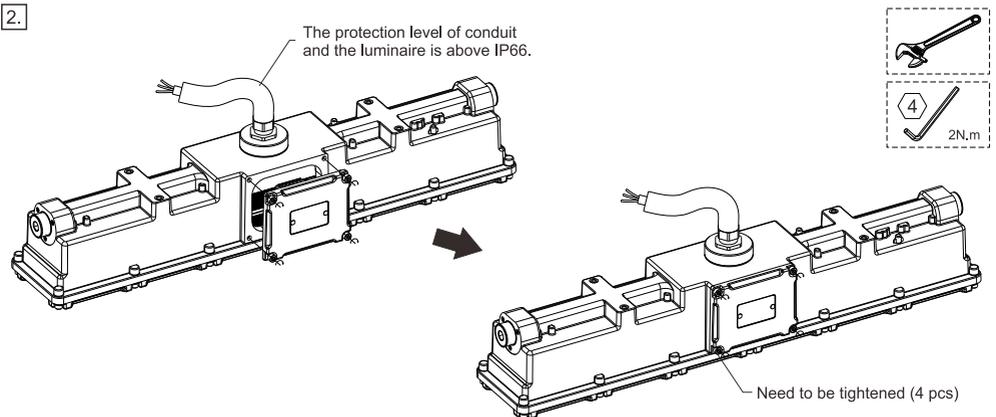


## 1. Cable entry from the top

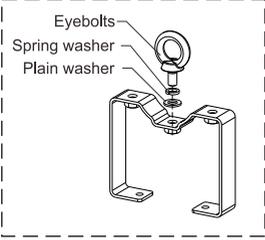
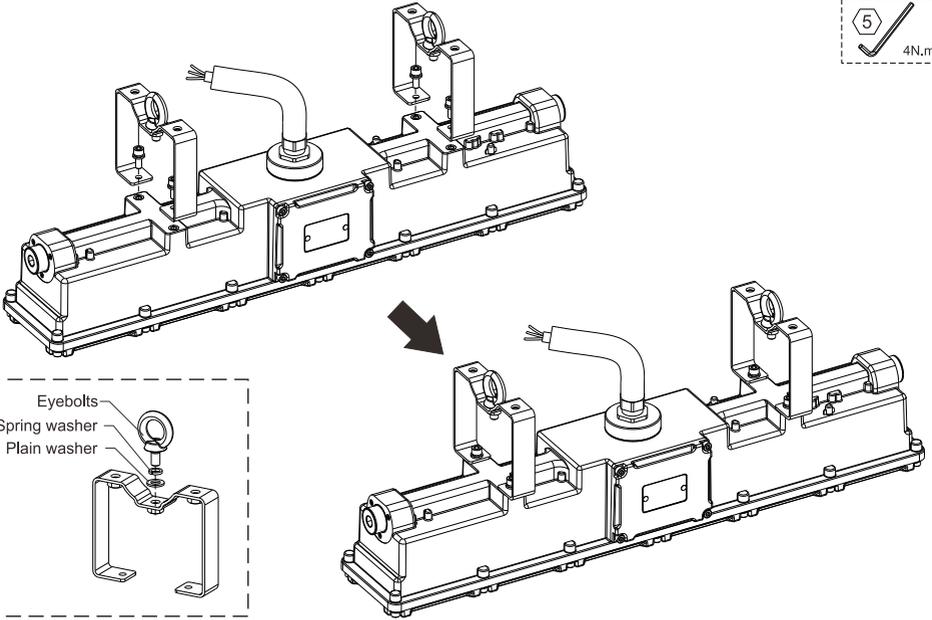


### ⚠ Notice:

1. Choose the appropriate cable and pay attention to the number of cores.
2. Choose the product that enters the line from the top or from the side according to the demand.
3. Wiring according to the wiring diagram.
4. Unused conduit entry need to be blocked with plugs.



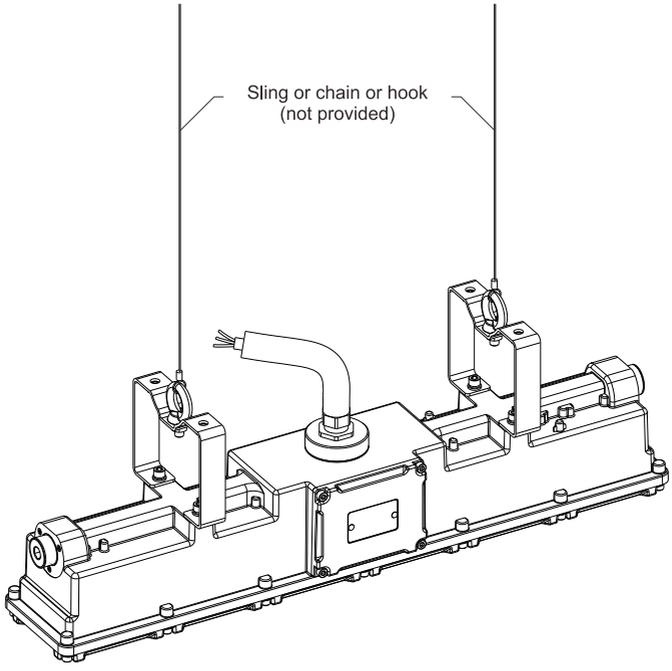
3.



**Notice:**

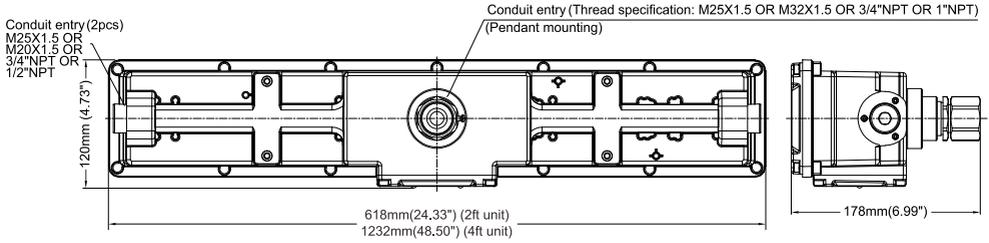
If the product has already assembled this accessory, please ignore this step.

4.



# Pendant Mount

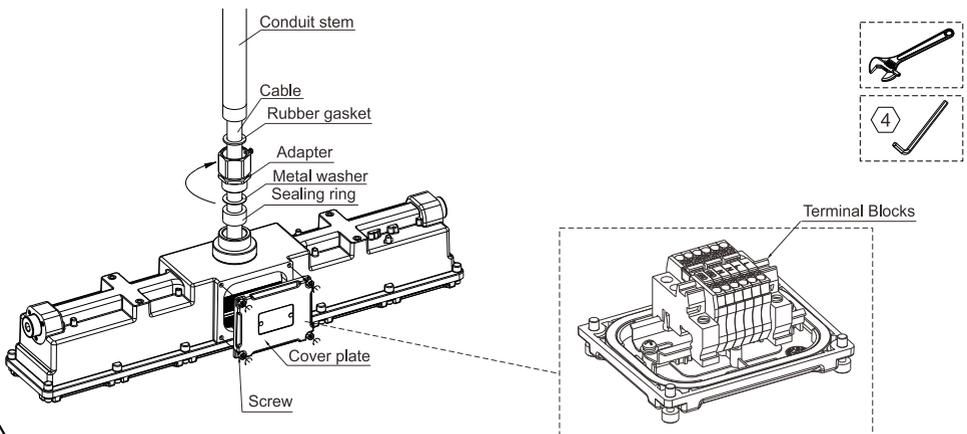
Unit: mm (inch)



## Notice:

1. Conduit entry is M32X1.5 or 1"NPT, suitable for cables with an outer diameter of 15-19.
2. Conduit entry is M25X1.5 or 3/4"NPT, suitable for cables with an outer diameter of 8-12.

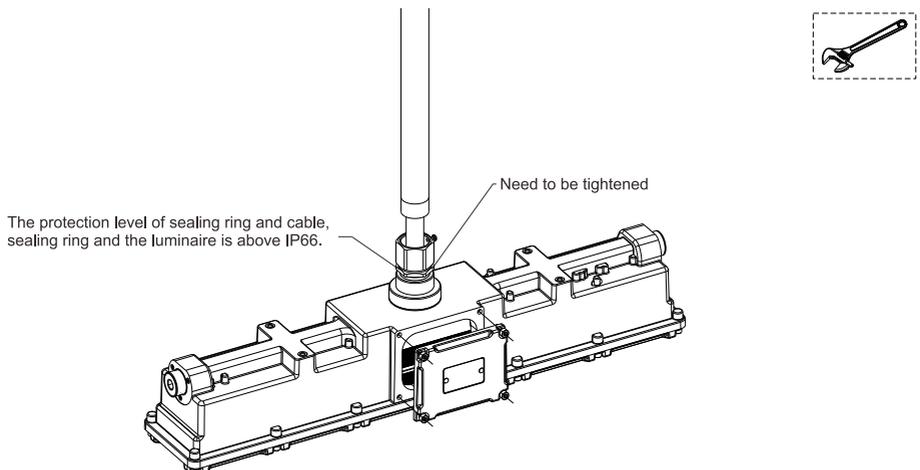
1.



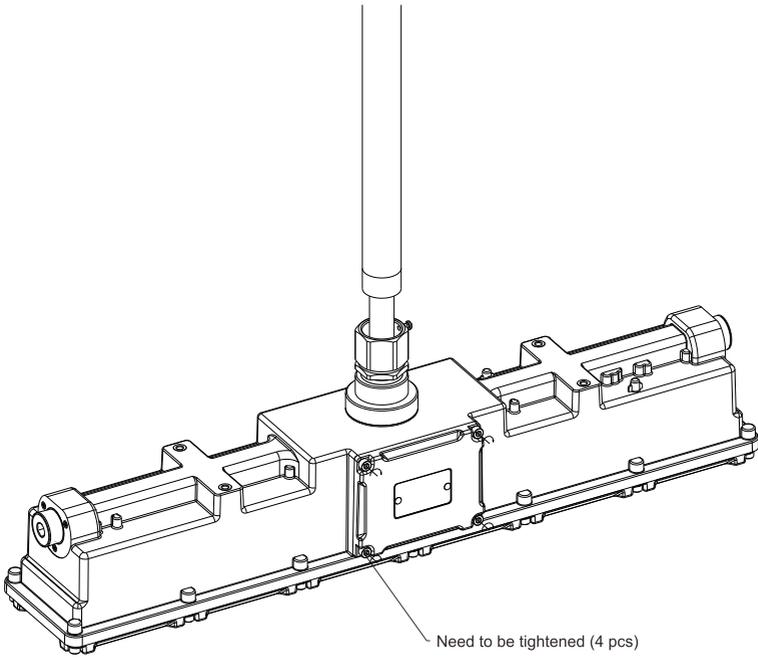
## Notice:

1. Choose the appropriate cable and pay attention to the number of cores.
2. Conduit entry matches cable size.
3. Wiring according to the wiring diagram.
4. Unused conduit entry need to be blocked with plugs.

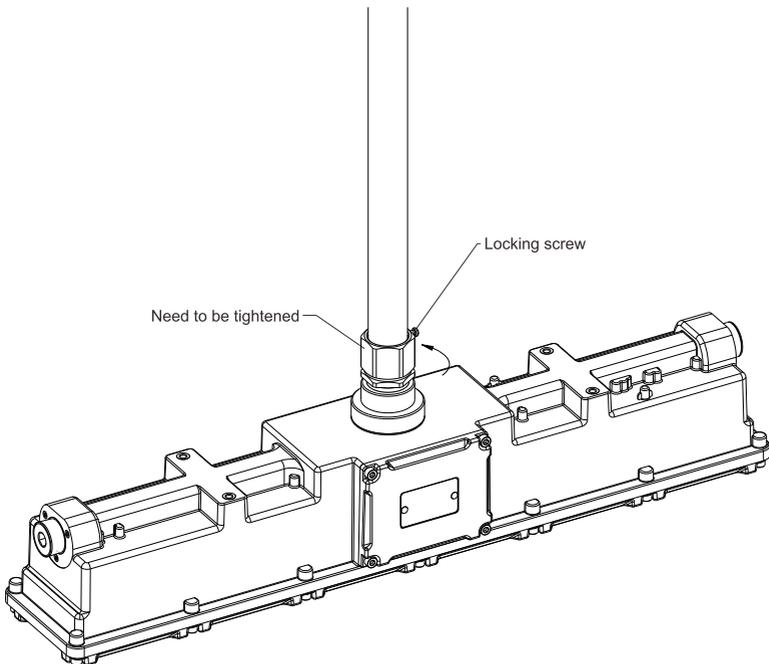
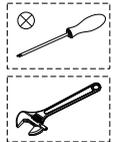
2.



3.

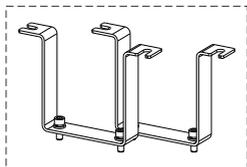


4.



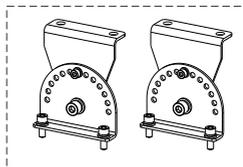
## Accessories

### Ceiling Mount



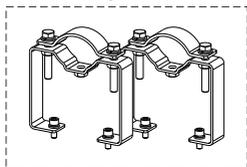
Dimension: 150\*30\*100mm  
 Surface Treatment: Powder coating  
 Color: Grey (RAL9007)  
 Code: **BC-EXA06-01**

### Trunnion Mount



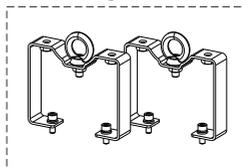
Dimension: 86\*43\*100mm  
 Surface Treatment: Powder coating  
 Color: Grey (RAL9007)  
 Code: **BC-EXA06-02**

### Hoop Mount



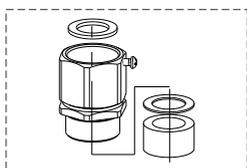
Dimension: 119\*25\*122mm  
 Surface Treatment: Powder coating  
 Color: Grey (RAL9007)  
 Code: **BC-EXA06-03**

### Ring Mount



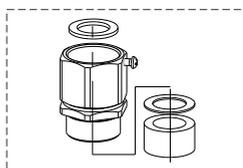
Dimension: 119\*25\*115mm  
 Surface Treatment: Powder coating  
 Color: Grey (RAL9007)  
 Code: **BC-EXA06-04**

### Pendant Mount



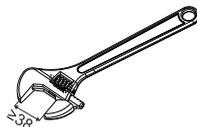
Dimension:  $\Phi 33$ \*65mm  
 Surface Treatment: Surface passivation  
 Color: Stainless steel color  
 Tube specification: M25X1.5 or 3/4"NPT  
 Cable outer diameter: 8-12  
 Code: **BC-EXA06-05**

### Pendant Mount

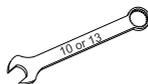


Dimension:  $\Phi 41$ \*65mm  
 Surface Treatment: Surface passivation  
 Color: Stainless steel color  
 Tube specification: M32X1.5 or 1"NPT  
 Cable outer diameter: 15-19  
 Code: **BC-EXA06-06**

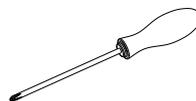
## Tools that may be used during installation



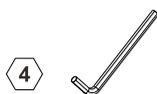
Adjustable wrench



Bayonet wrench



Bayonet wrench



Internal hexagonal wrench



Internal hexagonal wrench



Internal hexagonal wrench