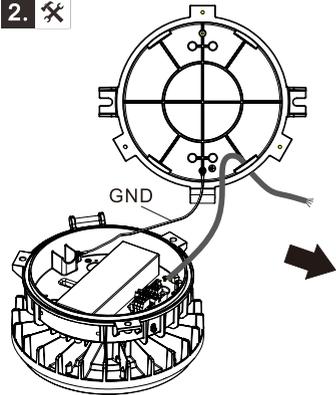


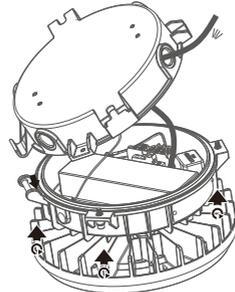
2. ✖



Connect the ground wire on the line to the green wire of the ceiling hood.

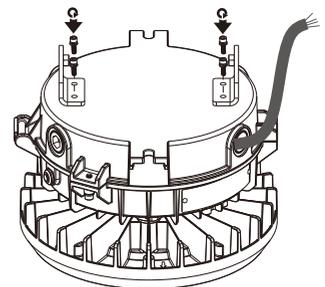
5. ✖  
4 N.m

Tighten the three screws on the power box

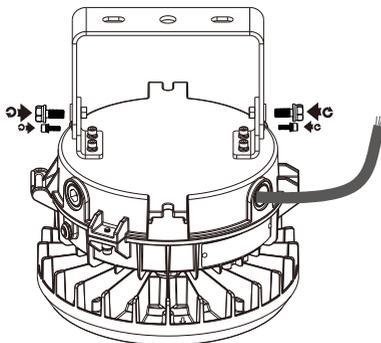


3. ✖

M6x20  
4PCS  
5. ✖  
2.5 N.m

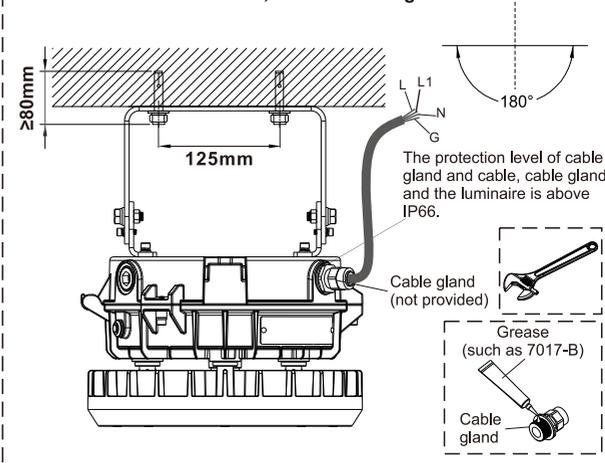


4. ✖



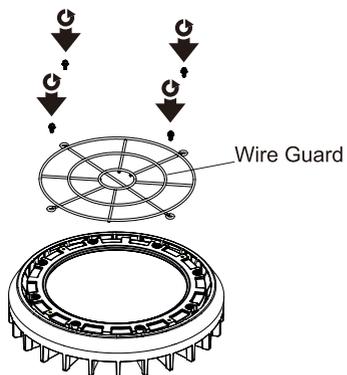
M5x14  
2PCS  
4. ✖  
2 N.m

5. ✖ Recommended screw size: M10-M12, 80-120mm Length



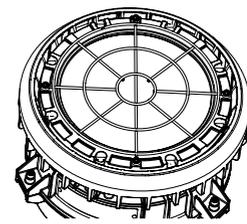
### Accessory Mount

1. ✖



Wire Guard

2. ✖



M4x10  
4PCS  
1.2 N.m

# LED Luminaires for Hazardous Locations

## EXA05 Emergency Series Installation And Operation Instructions



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



This product comply with below standard:

- IEC60079-0:2017, 7th Edition
- IEC60079-15:2017, 5th Edition
- IEC60079-31:2022, 3th Edition
- EN IEC 60079-0:2018
- EN IEC 60079-15:2019
- EN 60079-31:2014

IECEx Certificate: IECEx CSAE 22.0036X  
 ATEX Certificate (Gas): CSANe 22ATEX1059X  
 ATEX Certificate (Dust): CSANe 22ATEX1079X

IECEX: Ex nR IIC T6 Gc  
 Ex tb IIIC T80°C Db IP66  
 ATEX: II 3G Ex nR IIC T6 Gc  
 II 2D Ex tb IIIC T80°C Db IP66

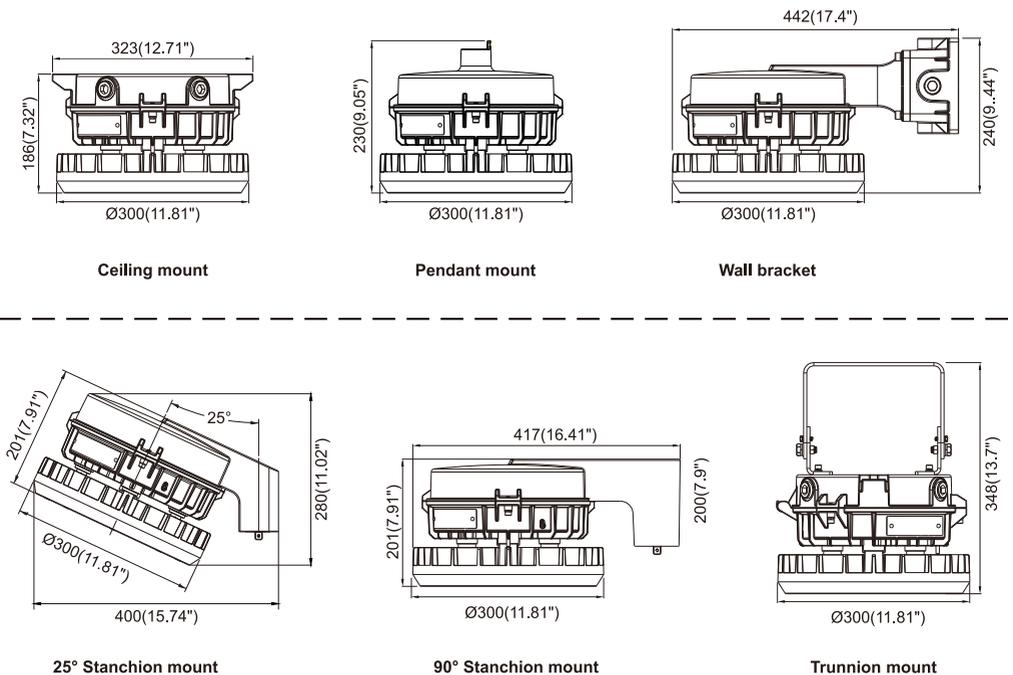
Applicable places are: Gas: Zone 2; Dust: Zone 21, 22.

Typical application sites are:

Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, indoor/outdoor spotlighting, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.



### Physical Dimensions(Unit: mm/inch)



## Product Specifications

Product Specifications	50W
Input Voltage	220-240Vac, 50/60Hz
Outlook Dimensions	Ceiling Mount: 323x300x186mm (12.71"x11.81"x7.32") Pendant Mount: Φ300x230mm (Dia.11.81"x9.05") Wall Bracket: 442x300x240mm (17.4"x11.81"x9.44") 25°Stanchion Mount: 400x300x280mm (15.74"x11.81"x11.02") 90°Stanchion Mount: 417x300x201mm (16.41"x11.81"x7.91") Trunnion Mount: Φ300x348mm (Dia.11.81"x13.7")
Luminaire Net Weight (±0.3kg/±0.66Lbs)	Ceiling Mount: 6.9kg (15.21Lbs) Pendant Mount: 6.5kg (14.33Lbs) Wall Bracket: 8.9kg (19.62Lbs) 25°Stanchion Mount: 8.0kg (17.64Lbs) 90°Stanchion Mount: 8.3kg (18.30Lbs) Trunnion Mount: 8.5kg(18.74Lbs)
Working Temperature	0°C to +50°C(32°F to +122°F)
Storing Temperature	-40°C to +70°C(-40°F to +158°F)
EM Wattage & EM Time	4W 3Hours
Battery Capacity	6.4V 3300mAh

## Luminaire Shipping Packing List

Name	QTY
EXA05series luminaire	1PC
EXA05 emergency series installation and operation instructions	1PC
EU declaration-of-conformity	1PC

## Model description

EXA 05-XXX-X-XX-XXX-XX-X-XX

- Options: EM=Emergency Battery.
- Mounting style: C=Ceiling mount; P=Pendant mount; W=Wall bracket; S=25°Stanchion mount; V=90°Stanchion mount; T=Trunnion mount.
- Diffusion material: CG=Clear Glass.
- Beam distribution: 014=T13801; 015=T13803; 016=T13805.
- CCT(K): 20=2000; ...; 65=6500; Re=Red; Gr=Green; Bl=Blue; Am=Amber.
- Voltage: N=220-240Vac, 50/60Hz.
- Lamp wattage: 050=50W.
- Lamp code: 05
- Series constant: EXA-Hazardous

### 2. ✕

Connect the ground wire on the line to the green wire of the ceiling hood.

5 4 N.m

### 3. ✕

Unscrew three screws on the power box counter-clockwise

5 4 N.m

### 4. ✕

Grease (such as 7017-B)

### 5. ✕

The protection level of the Stanchion and the luminaire is above IP66.

Hub locking screw

M4x12 1PCS  
1.2 N.m

### Trunnion Mount

Unit: mm/inch

60 (2.36")  
125 (4.92")  
13 (0.51")  
25 (0.98")  
Ø18.5 (0.72")

220(8.66")  
120(4.72")

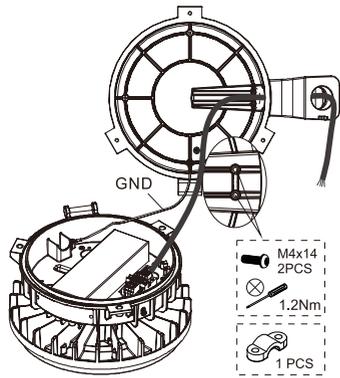
Cable entry  
3/4"NPT OR  
M25x1.5 OR  
M20x1.5(4PCS)

### 1. ✕

Unscrew the A, B, C three screws on the power box counter-clockwise

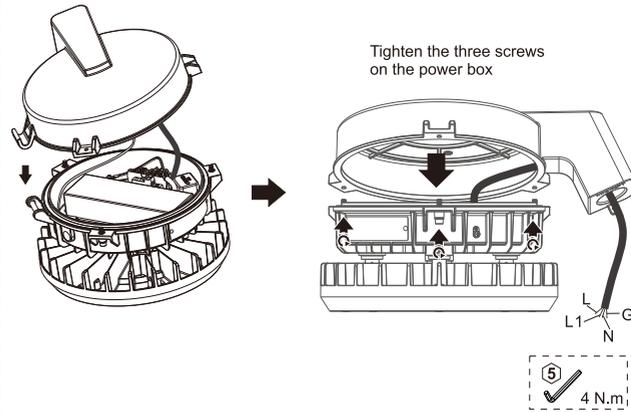
5 4 N.m

2. ✂



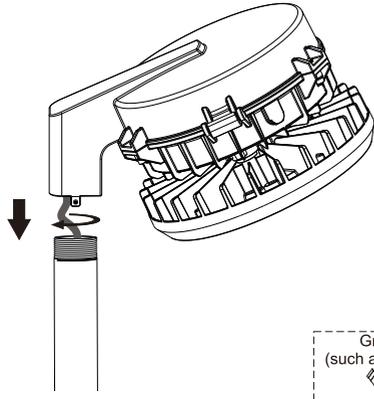
Connect the ground wire on the line to the green wire of the ceiling hood.

3. ✂



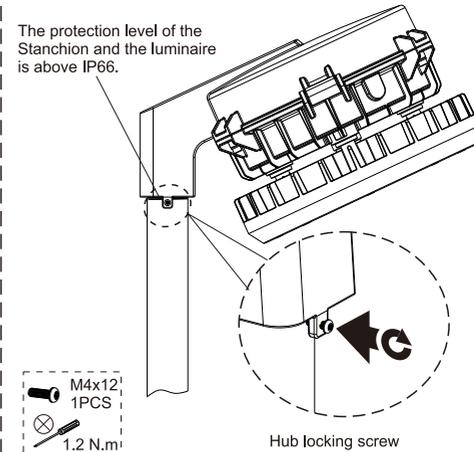
Tighten the three screws on the power box

4. ✂



5. ✂

The protection level of the Stanchion and the luminaire is above IP66.

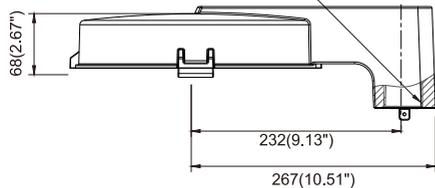


Hub locking screw

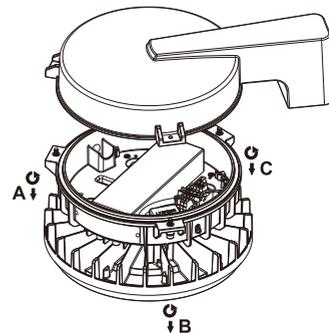
### 90° Stanchion Mount

Unit: mm(inch)

Cable entry  
1-1/4"NPT OR  
1-1/2"NPT



1. ✂



Unscrew the A, B, C three screws on the power box counter lock wise

## 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 manual patiently and carefully. And please keep the manual properly for future reference.

### Warnings:

1. The product can be connected to a power supply of 220-240VAC 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. Please do not touch the light while it is working.
8. Any installation and maintenance must be performed by certified electricians only.
9. Do not open the enclosure when the light is working.
10. Do not use this luminaire on an ungrounded circuit, otherwise it can cause a fatal electric shock.
11. 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 dangerous areas, so the qualified electrician is required. The inlet screw is NPT thread or metric thread (See the nameplate for details), cable entry must be installed with certified cable gland or blanking plug

#### • Use and setting-up

This manual is to provide the user with professional installation information, because the lamp is used in dangerous 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

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

**Note: The front light source cavity is not allowed to be opened during field installation.**

Other parameters: See Table 1 for details

Table 1

Item	Product model	Input Voltage	Rated Power	Tamb	Temperature class	Maximum surface temperature
					Gas("nR")	Dust("tb")
1	EXA05-050	220-240Vac	50W	0°C to +50°C	T6	80°C

## SPECIFIC CONDITIONS OF USE:

- 1.The EXA05 series LED luminaries for Hazardous Locations shall be mounted only in accordance with manufacturer's instructions.
- 2.The aluminium enclosures with a non-metallic coating featuring a non-conducting powder coat may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done with a damp cloth.
- 3.All cable entry holes shall be fitted of either suitably approved cable glands or suitably approved stopping plugs that is suitable for the application.
- 4.As part of the re-lamping procedure the gaskets are to be checked and replaced if found to be degraded.
- 5.Clean the luminaire regularly to prevent dust accumulation.
- 6.Under rated conditions, the cable entry point could reach a temperature exceeding 70°C and the branching point could reach a temperature of 80°C; this shall be considered when installing cable glands and only cables that have temperature rating 90°C shall be used.

## Emergency Instructions

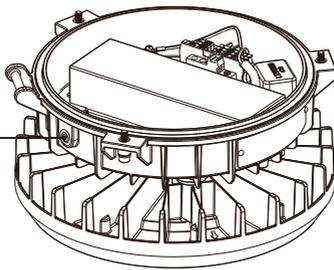
### Test switch:

When the power is turned on, if the test switch is being pressed, the emergency backup would enter the emergency mode. If the switch is being released, the fixture would enter the normal mode, and the emergency backup would enter the charging mode.

### LED indicator:

LED indicator reflects charging or non-charging status. When the battery is connected and there is mains power, the LED indicator would turn green, 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.

Test switch with LED indicator



## Dimensions and Installation for Mounting Accessories

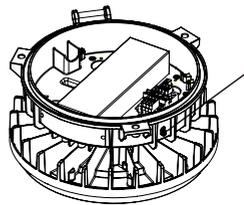
Evenly apply corrosion-inhibiting grease to the threads, such as High and Low Temperature Grease 7017-1B. Install the appropriate certified cable gland to the threaded hole (see the product nameplate for specific thread specifications), and tighten it.

High and Low Temperature Grease (such as Grease 7017-1B)

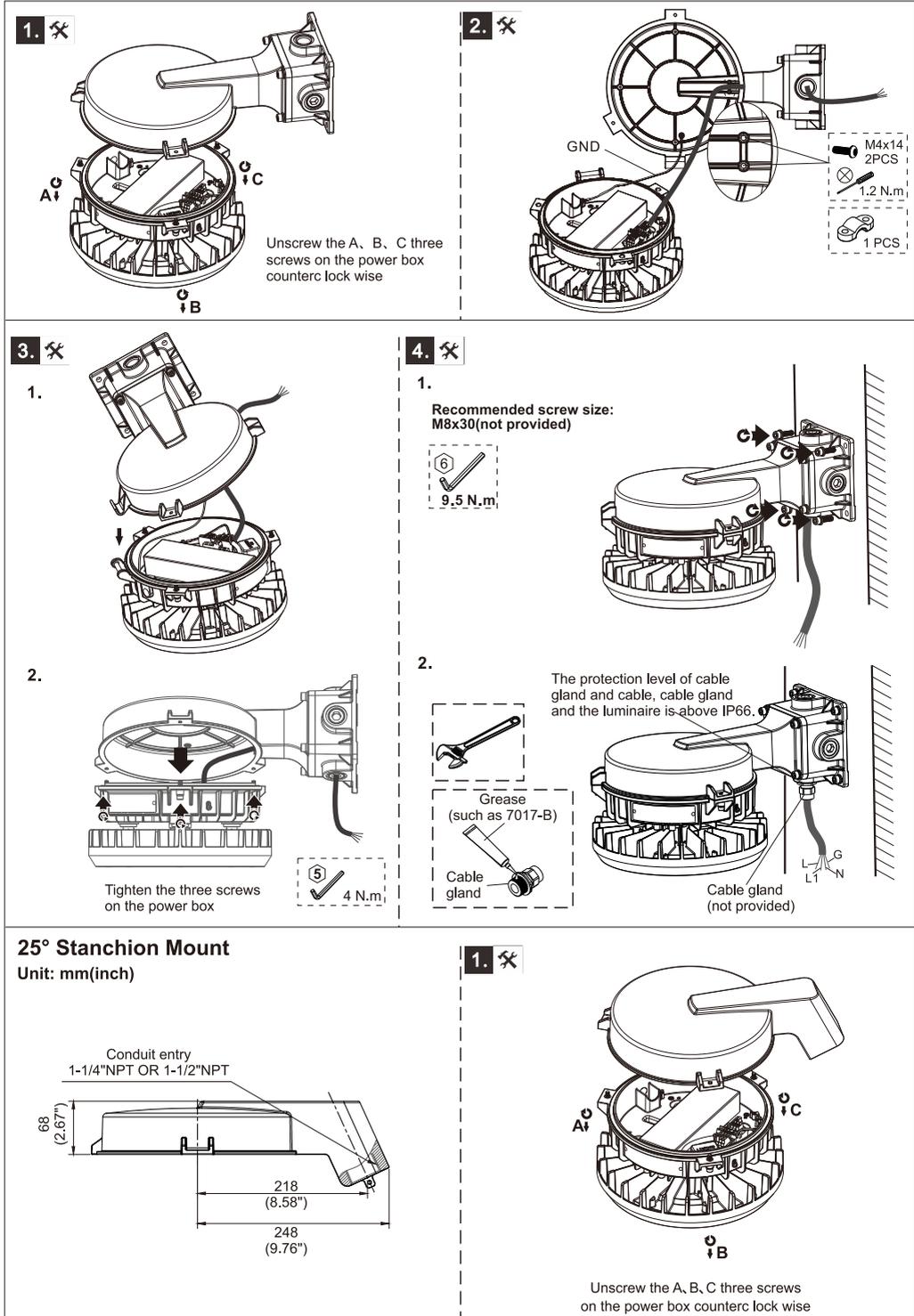


(not provided)

External grounding screw



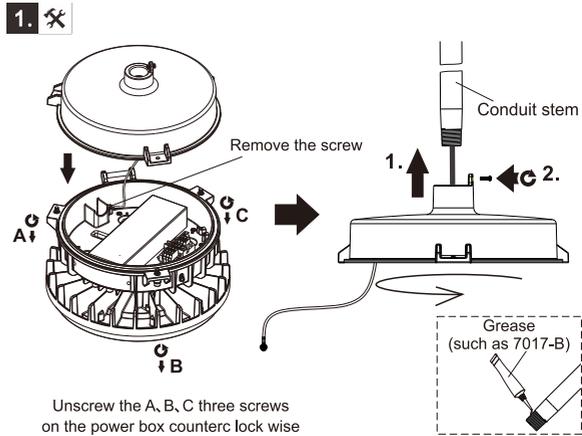
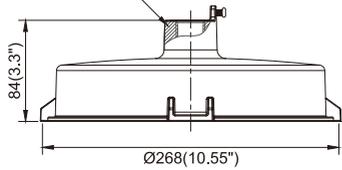
Connect the grounding wire (the cross-sectional area of the wire is not less than 4mm<sup>2</sup>) to the external grounding screw of the luminaire.



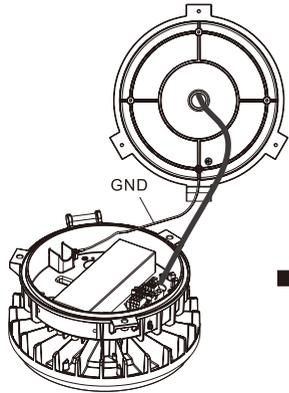
## Pendant Mount

Unit: mm(inch)

Cable entry  
3/4"NPT OR 1"NPT OR  
M25x1.5 OR M20x1.5

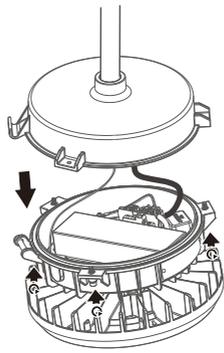


2.



Connect the ground wire on the line to the green wire of the ceiling hood.

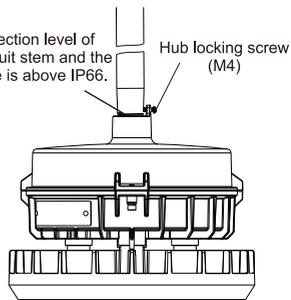
4 N.m



Tighten the three screws on the power box

3.

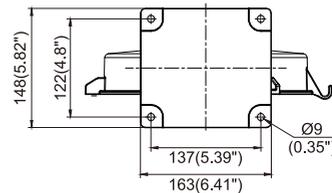
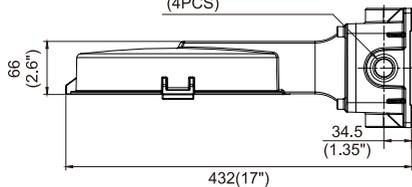
The protection level of the conduit stem and the luminaire is above IP66.



## Wall Bracket

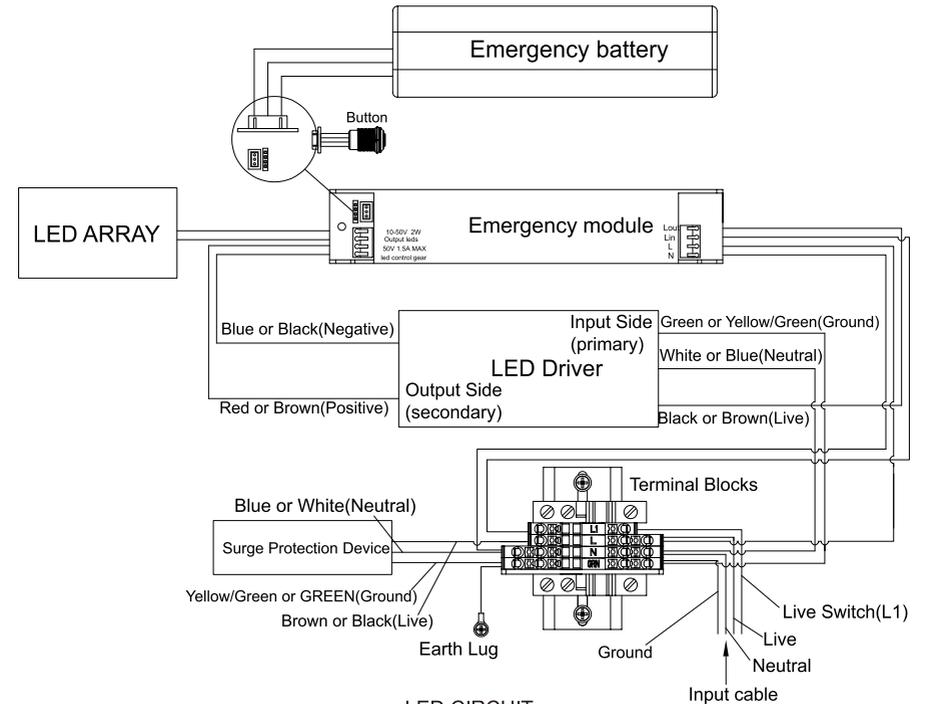
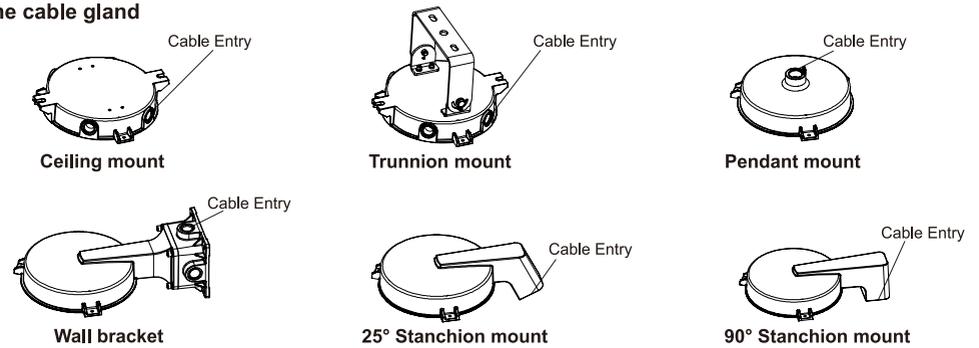
Unit: mm(inch)

Cable entry  
3/4"NPT OR 1"NPT OR  
M25X1.5 OR M20X1.5  
(4PCS)



## Wiring Diagram

### One cable gland

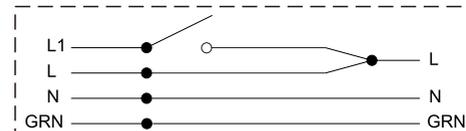


Notice:

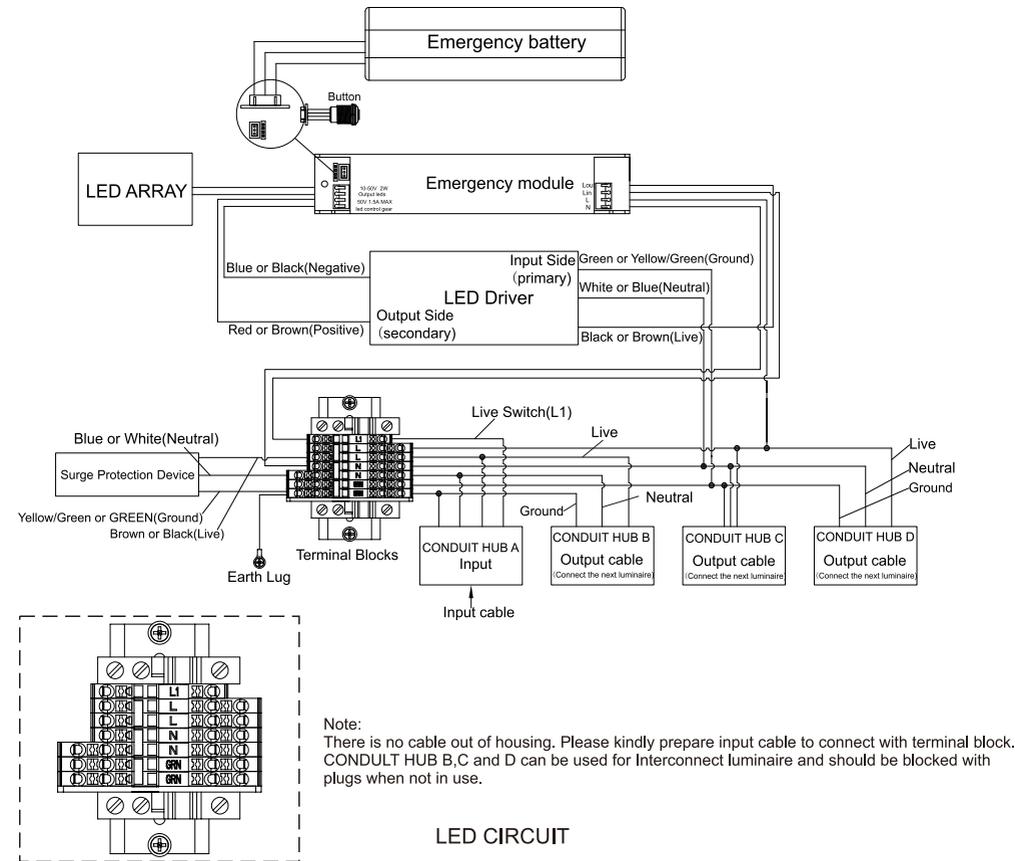
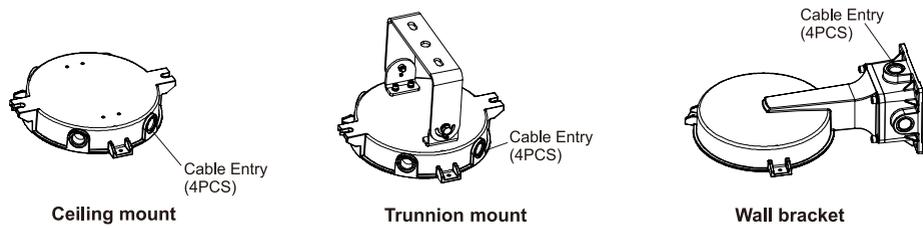
There is no cable out of housing. Please kindly prepare input cable to connect with terminal block.

1. Switch 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 green. When the power is disconnected, the fixture would enter emergency mode.

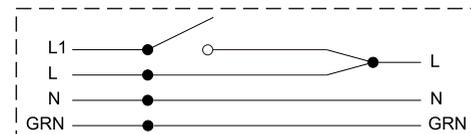
2. When there is no need to connect the Live Switch, Switch L1 (black wire) and L (brown wire) could be connected together.



## Two or more cable gland

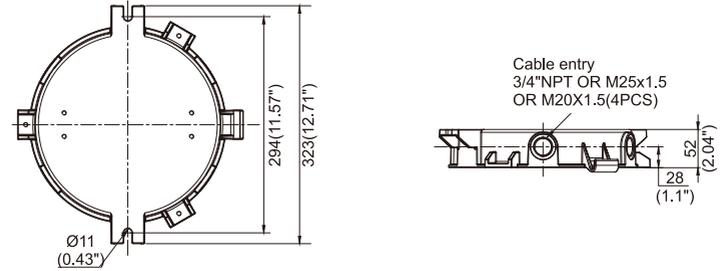


Notice:  
There is no cable out of housing. Please kindly prepare input cable to connect with terminal block.  
1. Switch L1 (black wire) can be connected to a live wire switch (also called a normally-closed switch). When there is power, after turning off this switch (disconnect the live wire), the fixture would be off, but the battery is still in charging mode, and indicator would turn green. When the power is disconnected, the fixture would enter emergency mode.  
2. When there is no need to connect the Live Switch, Switch L1 (black wire) and L (brown wire) could be connected together.

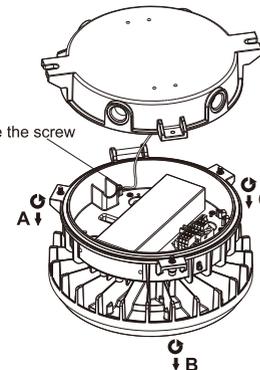


## Ceiling Mount

Unit: mm(inch)



1. ✕



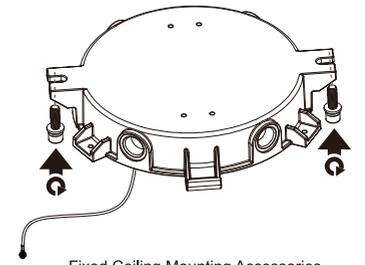
Unscrew the A, B, C three screws on the power box counterlockwise

5. ✓ 4 N.m

2. ✕

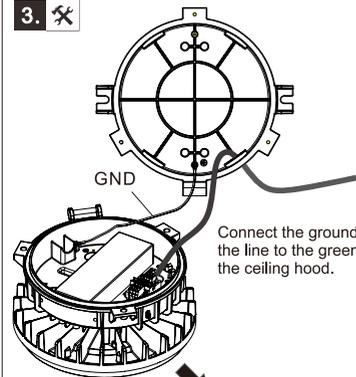
Recommended screw size: M10(not provided)

M10x35, 2PCS  
17 N.m



Fixed Ceiling Mounting Accessories

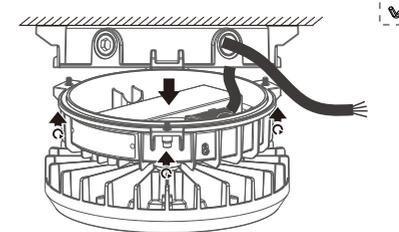
3. ✕



Connect the ground wire on the line to the green wire of the ceiling hood.

4. ✕

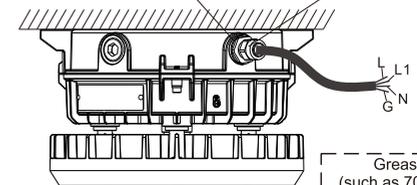
1 Tighten the three screws on the power box



M10x35, 2PCS  
17 N.m

2

The protection level of cable entry and the luminaire is above IP66



Grease (such as 7017-B)

Cable gland