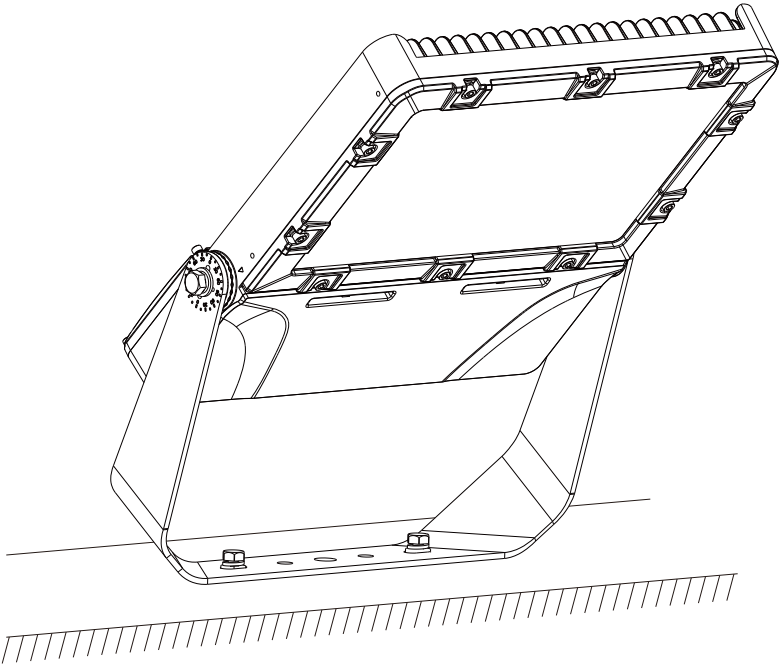


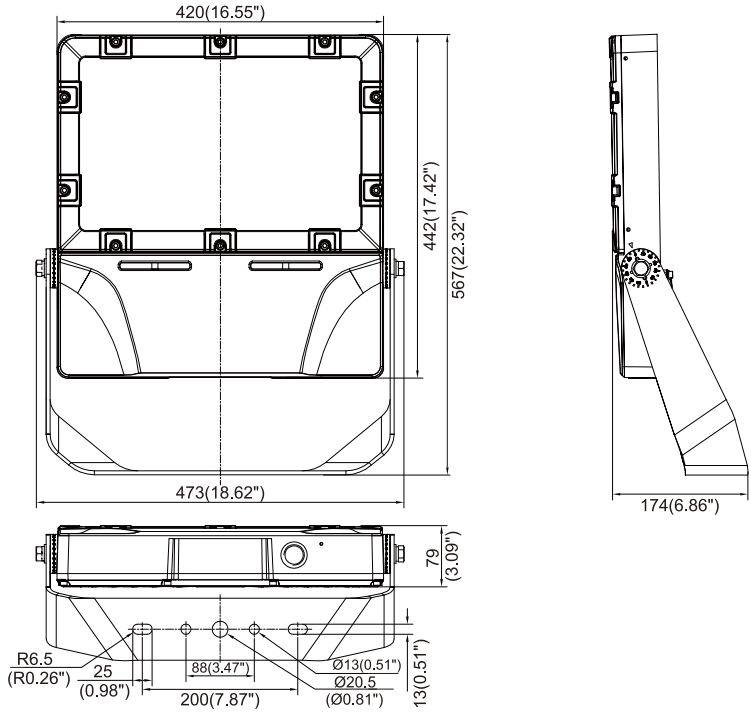
LED Flood Lighting For Hazardous Locations

HA04 Series Installation And Operation Instructions

IECEX Certificate: IECEX TUR 21.0032X
ATEX Certificate(Gas) : TÜV 22 ATEX 8787X
ATEX Certificate(Dust): TÜV 21 ATEX 8702X



Physical Dimensions(Unit: mm/inch)



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

Typical application sites are: Power Plants / Heavy Industrials Storage Facility / Paper Mills Wastewater Treatment / Plants Loading Docks / Shipyards / Chemical Processing Facility/ Petrochemical Processing Facility and so on.

Product Specifications	150W	200W	240W
Input Voltage	100-277Vac, 50/60Hz		
Outlook Dimensions	567x473x174mm(22.32x18.62x6.86")		
Luminaire Net Weight	13±0.3kg(28.6±0.66Lbs)		
Working Temperature	-40°C to +65°C (-40°F to +149°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +50°C (-40°F to +122°F)
Storing Temperature	-40°C to +70°C(-40°F to +158°F)		

Luminaire shipping packing list	
Name	QTY
EXA04 Series luminaire	1 PC
EXA04 Series Installation and operation instructions	1 PC
EU Declaration-of-conformity	1 PC

Model description

EXA 04-XXX-X-XX-XXX-XX-X-XX

- Options:WG=Wire Guard;GS=Glare Shield.
- Hub Qty:A=1pc ;B=2pcs.
- Diffusion Material: CG=Clear Glass
- Beam Distribution:
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;
- Lamp Wattage: 150=150W;200=200W;240=240W
- Lamp Code:04
- Series Constant: EXA-Hazardous

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, 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.In no circumstances can this light be covered by 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.

General Description:

The product is an LED flood lighting for hazardous locations, its electrical parameters as below:

Input voltage: AC100-277V, 50/60Hz.

Power: Refer to Table 1 for details.

And the suitable application location for it as below:

IECEX:

Ex nR IIC T6/T5 Gc

Ex tb IIIC T80°C/T95°C Db IP66

ATEX:

II 3G Ex nR IIC T6/T5 Gc

II 2D Ex tb IIIC T80°C/T95°C Db IP66

Ambient Temperature : See Table 1 For Details

Table 1

Item	Product model	Input Voltage	Input Current	Rated Power	Tamb	Temperature class	Maximum surface temperature
						Gas("nR")	Dust("tb")
1	EXA04-150series	100-277Vac	0.54-1.5A	150W	-40°C to +65°C	T5	95°C
					-40°C to +55°C	T6	80°C
2	EXA04-200series	100-277Vac	0.72-2A	200W	-40°C to +60°C	T5	95°C
					-40°C to +50°C	T6	80°C
3	EXA04-240series	100-277Vac	0.87-2.4A	240W	-40°C to +50°C	T5	95°C

Construction Overview

This product is mainly composed of lamp shell, LED lamp board, lens, tempered glass, power supply, surge protection device, wiring terminals, wires, support and fasteners. The lamp shell is composed of a heatsink, a glass pressing plate and a power supply box cover plate. In order to ensure the protection level of this product, there are sealing rings between the heatsink, the glass and the glass pressing plate, as well as between the heatsink and the power box cover, which can effectively prevent dust and rain from entering. Power box cover can only be opened during installation and maintenance.

This product comply with below standard:

IEC60079-0:2017, 7th Edition;
IEC60079-15:2017, 5th Edition;
IEC60079-31:2013, 2th Edition;
EN IEC 60079-0:2018;
EN IEC 60079-15:2019;
EN 60079-31:2014



EX-SERIES

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Houston, TX 77075 USA
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availinfra.com/rig-a-lite/



SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. End user shall use certified cable glands with suitable type of protection for installation purpose. Cable gland with minimum IP66 rating, and has a minimum service temperature of 100°C to be used.
- 2. Clearances and creepage distances should be considered when installing the power cables in accordance with the applicable safety requirements of the relevant industrial standards.
- 3. Electrostatic charging hazard – clean only with a damp cloth.
- 4. End user are not allowed to open the light source chamber.
- 5. When the “nR” enclosure is opened for installation or maintenance purpose by end user, the performance of restricted breathing enclosure shall be verified in accordance with the "Restricted-breathing Enclosure Test Procedure" in this instruction.
- 6. Different ambient temperature range should be observed for different models as below.

Models	Tamb	Temperature class (for type "nR")	Max. surface temperature (for type "tb")
EXA04-150 series	-40°C to +65°C	T5	95°C
	-40°C to +55°C	T6	80°C
EXA04-200 series	-40°C to +60°C	T5	95°C
	-40°C to +50°C	T6	80°C
EXA04-240 series	-40°C to +50°C	T5	95°C

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 3/4 "NPT or M25X1.5 (See the nameplate for details), cable entry must be installed with certified cable gland or blanking plug.
- **Adjustment and parameter setting**
The minimum height of installation is 2 meters for this luminaire. For heating dissipation, please do not install less than this height.
- **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**
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, green with yellow(or green) strips to the grounding.

Instructions For Installation Of Single Unit

- Step 1: Turn off power before installation.
- Step 2: Install the luminaire to the mounting surface by screws and the mounting holes on "U-shape" mounting bracket (Fig.1).
- Step 3: Open the cover board (Fig.2) of wiring compartment.
- Step 4: Adjust the light angle of the luminaire by adjusting the hinge joint of the U shape bracket.
- Step 5: Evenly apply corrosion-inhibiting grease to the threads (at least 4 threads), such as High and Low Temperature Grease 7017-1B. Install qualified conduit or cable entry device to the threaded conduct opening, and wrench-tight (Please note that the torque of 3/4" NPT thread is 90N.m, and the torque of M25X1.5 thread is 55N.m).
- Step 6: Connect the Live, Neutral, Grounding wire from branch to the slots of terminal block, according to the marking on terminal block. The specification of the cable on the line needs to be in the range of 18-12AWG.
- ◆ The wiring diagram of models EXA04-XXX-X-XX-XXX-XX-A-XX (ONE PC HUB) (Fig.3)Series, see Fig.5 for details.
 - ◆ The appearance of models EXA04-XXX-X-XX-XXX-XX-B-XX (TWO PCS HUB) Series, see Fig.4 for details. Interconnect luminaire, please be reminded that Maximum total wattage for interconnection is 2000 W(The specification of the cable on the line needs to be in the range of 13-12AWG.), Install plug (provided) into (if present) the unused conduit opening and wrench-tight. The wiring diagram, see Fig.6 for details.
- Step 7: Before closing the cover board, check and make sure that the sealing ring is completely seated in the sealing groove of the cover board. Then cover the cover board, and tighten the screws on the cover board with a torque of 3.3N.m.
- Step 8: Connect the grounding wire (the cross-sectional area of the wire is not less than 4mm2) to the external grounding screw of the lamp (as shown in the figure below).

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

Fig.1

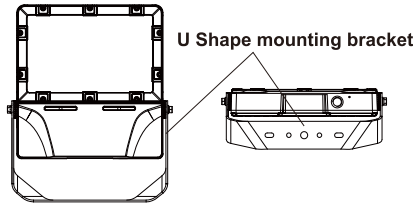


Fig.2

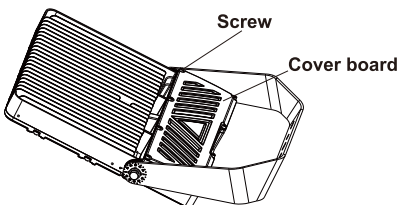


Fig.3

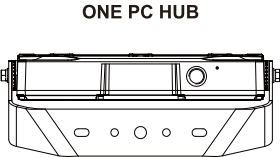


Fig.4

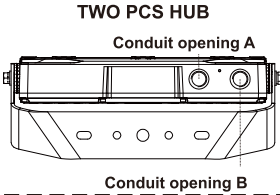


Fig.5

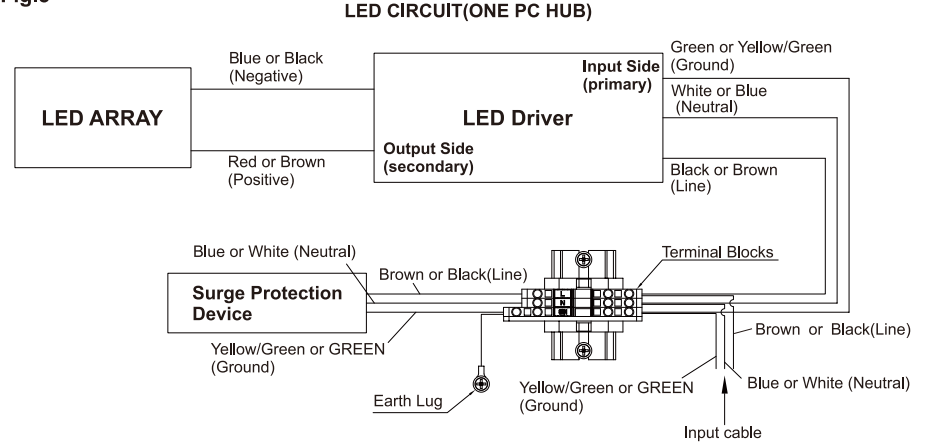
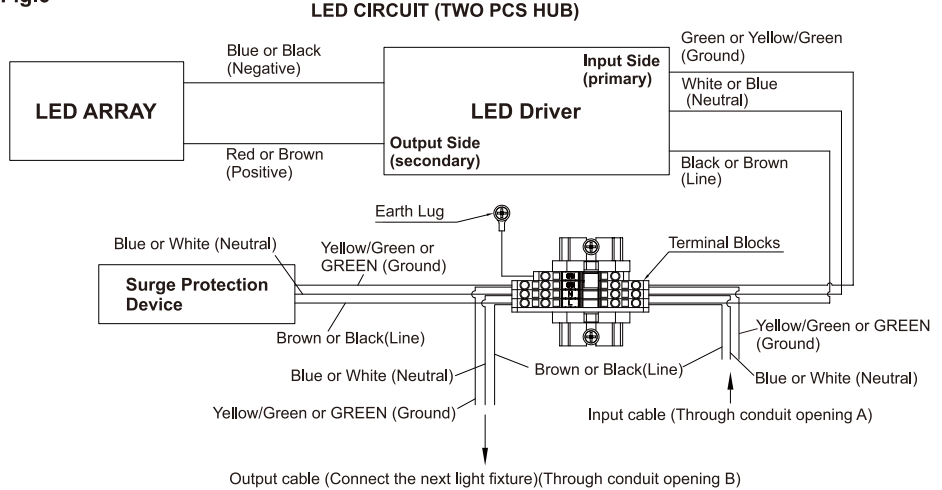


Fig.6

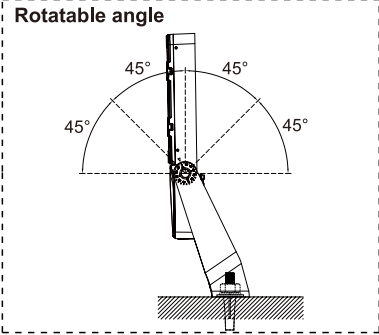
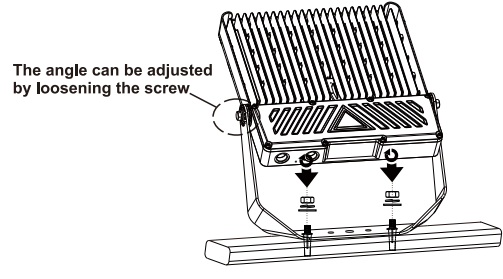


Restricted-breathing Enclosure Test Procedure:

- When the “nR” enclosure is opened for installation or maintenance purpose by end user, the Restricted-breathing Enclosure Test is required.
- Step 1: Prepare qualified differential pressure gauges, air pipe, vacuum-pumping equipment and other equipment required for restricted-breathing enclosure test.
- Step 2: Prepare a certified cable connector that matches the cable, fix the cable connector on the cable entry hole of the lamp, and tighten it. For luminaire with two cable entry holes, please install a plug into the unused cable entry hole.
- Step 3: Connect the air pipe which matches the cable connector to the cable connector and tighten it. Connect the air pipe to the differential pressure gauge.
- Step 4: Use vacuum-pumping equipment to pump negative pressure to 300Pa (the pointer or reading of the differential pressure gauge is between 300-330Pa) to stop. And time it with a timer.
- Step 5: Observe the change in the pointer reading of the differential pressure gauge. When the timer reaches 180S (3 minutes), record the reading of the differential pressure gauge pointer. If the reading is between 165-330pa, it is qualified, otherwise, it is unqualified.

Mounting of Luminaire

Recommended screw size: M10~M12



Optional item:

Glare Shield Dimensions(Unit: mm/inch)

