



EX-H SERIES

EXPLOSION-PROOF LIGHT

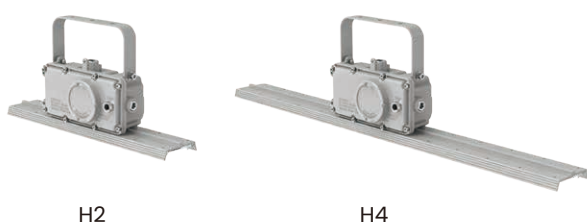
Class I Division 2, Class II Division 2, Zone 2, Zone 22

INTRODUCTION

The FGE-EX-H2 / H4 Series Explosion-Proof Lighting combines modern design with robust safety features, offering reliable illumination for heavy-duty hazardous locations. Constructed with high-strength aluminum and corrosion-resistant coating, it withstands harsh environments and ensures long-term durability.

Its advanced LED module achieves up to 170 lm/W, delivering high brightness and energy savings. Certified for Class I Division 2, Class II Division 2, Zone 2, Zone 22, the H2/H4 Series is ideal for chemical storage areas, offshore platforms, and processing facilities.

With multiple optics, wattage selections, and flexible mounting methods, it provides a customizable lighting solution tailored to specific industrial needs.



H2

H4

COMPLIANCE

UL844 Hazardous Locations
Class I Division 2, Group A, B, C, D
Class II Division 2, Group F, G
Class II
UL 1598 Wet Locations
UL 1598A Marine Outside Type
UL 924 Emergency Lighting
CSA C22.2#250.0:2021 Ed.5
CSA C22.2#137:2018 Ed.2



LM-79

LM-80

TM-21

ISTMT

IEC

FEATURES



170lm/W

High Efficacy & Energy Saving: Up to 170 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



0-10V
DIMMABLE

Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



3 POWER
SELECTABLE

Power Selectable: Multi-wattage options in a single fixture for flexible applications and reduced inventory.



EMERGENCY
BACKUP

90 Minutes EM Back-up Options: Ensuring safety and visibility during critical moments.



RELIABLE
WARRANTY

Reliable Warranty: 5 Years Warranty.



CCT
SELECTABLE

CCT Tunable: Adjustable color temperature to suit diverse environments.

- Robust Protection:

IP66 waterproof & dustproof, IK08 impact resistance for harsh industrial environments.

- Superior Thermal Management:

Copper-free aluminum housing, great corrosion resistance and cooling performance.

- Versatile Mounting Options:

Ceiling, pole, wall, chain, and pendant mounting for flexible installation.

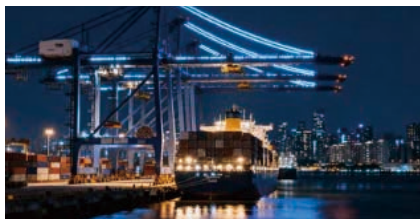
- Wide Input Voltage:

AC100-277V / AC200-480V, suitable for global power grids.

APPLICATIONS



Paper Mills: Providing safe and stable illumination in dust-rich environments to reduce ignition risks and support continuous operation.



Loading Dock Platforms: Delivering durable explosion-proof lighting to withstand vibration and fuel vapors for safer loading and unloading operations.



Chemical Processing Facilities: Ensuring reliable lighting in areas with volatile chemicals to maintain safety and compliance under hazardous conditions.



Coal Mine: Offering explosion-proof illumination for methane- and dust-prone mining zones to protect workers during underground operations.



Power Plants: Providing robust lighting around high-risk equipment to support safe inspection and maintenance in demanding conditions.



Heavy Industrial Facilities: Delivering long-lasting explosion-proof lighting for harsh industrial sites exposed to dust, oil mist, and mechanical impact.

TECHNICAL PARAMETERS

H2 series

Product Model	EX-20W	EX-40W	EX-60W	EX-80W	EX-100W
Electrical Performance					
Wattage	20W	40W	60W	80W	100W
Input Voltage	AC100-277V/200-480V	AC100-277V/200-480V	AC100-277V/200-480V	AC100-277V/200-480V	AC100-277V/200-480V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.95	>0.95	>0.95	>0.95	>0.95
Surge Protection	10KV	10KV	10KV	10KV	10KV
THD	<20%	<20%	<20%	<20%	<20%
Optical Performance					
Luminous Efficacy	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W
Luminous Flux	2800lm	5600lm	8400lm	11200lm	14000lm
CCT	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K
CRI	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70
Beam Angle	30°/45°/60°/90°/120°/T2/T3/T5				
Unified Glare Rating (UGR)	20	20	20	20	20
Reliability					
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-40 ~ +40°C/-40 ~ +55°C/-40 ~ +65°C				
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66	IP66
Impact Resistance	IK08	IK08	IK08	IK08	IK08
Control					
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Sensor	No	No	No	No	No
Communication Protocol	-	-	-	-	-
Emergency Kit	Optional	Optional	Optional	Optional	Optional
Mechanical					
Housing Material	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum
Lens Material	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
Coating	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040
Net Weight	3.6kg	3.8kg	4kg	4kg	4.4kg
Dimensions	600x119.5x222.8mm	600x119.5x222.8mm	600x119.5x222.8mm	600x119.5x222.8mm	600x119.5x222.8mm
Warranty					
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years

H4 series

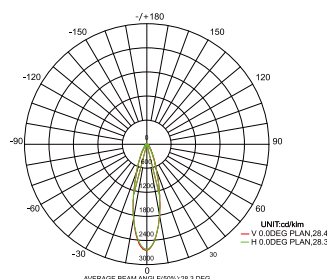
Product Model	EX-40W	EX-60W	EX-80W	EX-100W	EX-120W	EX-140W	EX-160W	EX-180W	EX-200W
Electrical Performance									
Wattage	40W	60W	80W	100W	120W	140W	160W	180W	200W
Input Voltage	AC100-277V/200-480V								
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95
Surge Protection	10KV	10KV	10KV	10KV	10KV	10KV	10KV	10KV	10KV
THD	<20%	<20%	<20%	<20%	<20%	<20%	<20%	<20%	<20%
Optical Performance									
Luminous Efficacy	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W
Luminous Flux	5600lm	8400lm	11200lm	14000lm	16800lm	19600lm	22400lm	25200lm	28000lm
CCT	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K
CRI	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70	Ra>70
Beam Angle	30°/45°/60°/90°/120°/T2/T3/T5								
Unified Glare Rating (UGR)	20	20	20	20	20	20	20	20	20
Reliability									
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-40 ~ +40°C/-40 ~ +55°C/-40 ~ +65°C								
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Impact Resistance	IK08	IK08	IK08	IK08	IK08	IK08	IK08	IK08	IK08
Control									
Dimming	0-10V Dimming								
Sensor	No	No	No	No	No	No	No	No	No
Communication Protocol	-	-	-	-	-	-	-	-	-
Emergency Kit	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Mechanical									
Housing Material	Copper-free Aluminum								
Lens Material	Tempered Glass								
Coating	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040
Net Weight	3.8kg	3.8kg	4.2kg	4.5kg	4.9kg	5.2kg	5.8kg	5.8kg	6.6kg
Dimensions	1200x119.5x222.8mm								
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years

Power and CCT Selectable

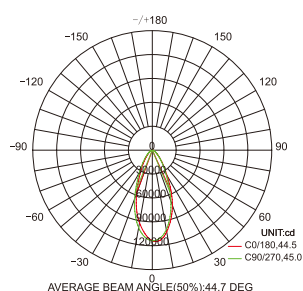
Product Model	EX-60W/40W/30W	EX-80W/60W/40W
Electrical Performance		
Wattage	60W/40W/30W	80W/60W/40W
Input Voltage	AC100-277V/200-480V	AC100-277V/200-480V
Frequency	50/60Hz	50/60Hz
Power Factor (PF)	>0.95	>0.95
Surge Protection	10KV	10KV
THD	<20%	<20%
Optical Performance		
Luminous Efficacy	170lm/W	170lm/W
Luminous Flux	10200lm/6800lm/5100lm	13600lm/10200lm/6800lm
CCT	4000K/5000K/6500K	4000K/5000K/6500K
CRI	Ra>70	Ra>70
Beam Angle	30°/45°/60°/90°/120°/T2/T3/T5	30°/45°/60°/90°/120°/T2/T3/T5
Unified Glare Rating (UGR)	20	20

Reliability		
Lifetime	>100,000h	>100,000h
Operating Temperature	-40 ~ +40°C/-40 ~ +55°C/-40 ~ +65°C	-40 ~ +40°C/-40 ~ +55°C/-40 ~ +65°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66
Impact Resistance	IK08	IK08
Control		
Dimming	0-10V Dimming	0-10V Dimming
Sensor	No	No
Communication Protocol	-	-
Emergency Kit	Optional	Optional
Mechanical		
Housing Material	Copper-free Aluminum	Copper-free Aluminum
Lens Material	Tempered Glass	Tempered Glass
Coating	Grey/RAL7040	Grey/RAL7040
Net Weight	4kg	4.2kg
Dimensions	600x119.5x222.8mm	1200x119.5x222.8mm
Warranty	5 Years	5 Years

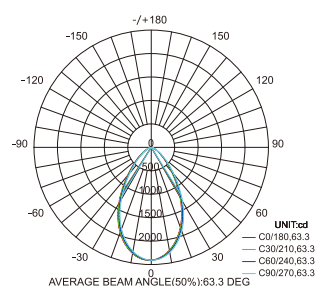
PHOTOMETRICS



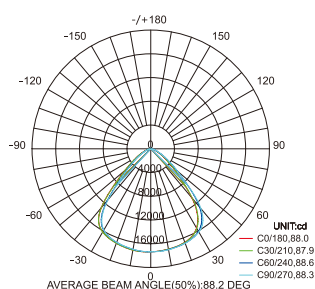
30°



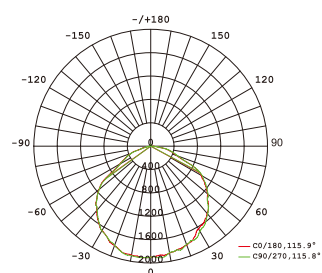
45°



60°

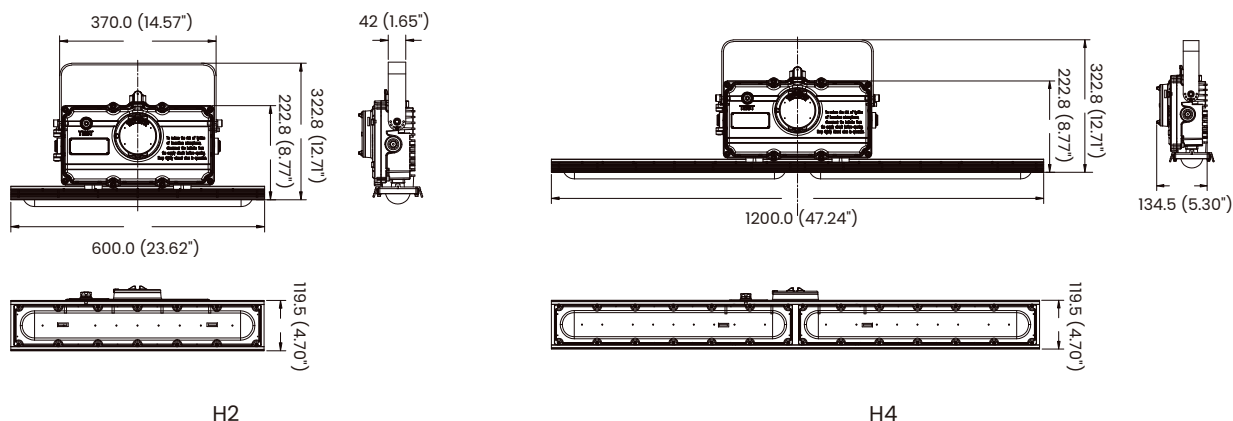


90°



120°

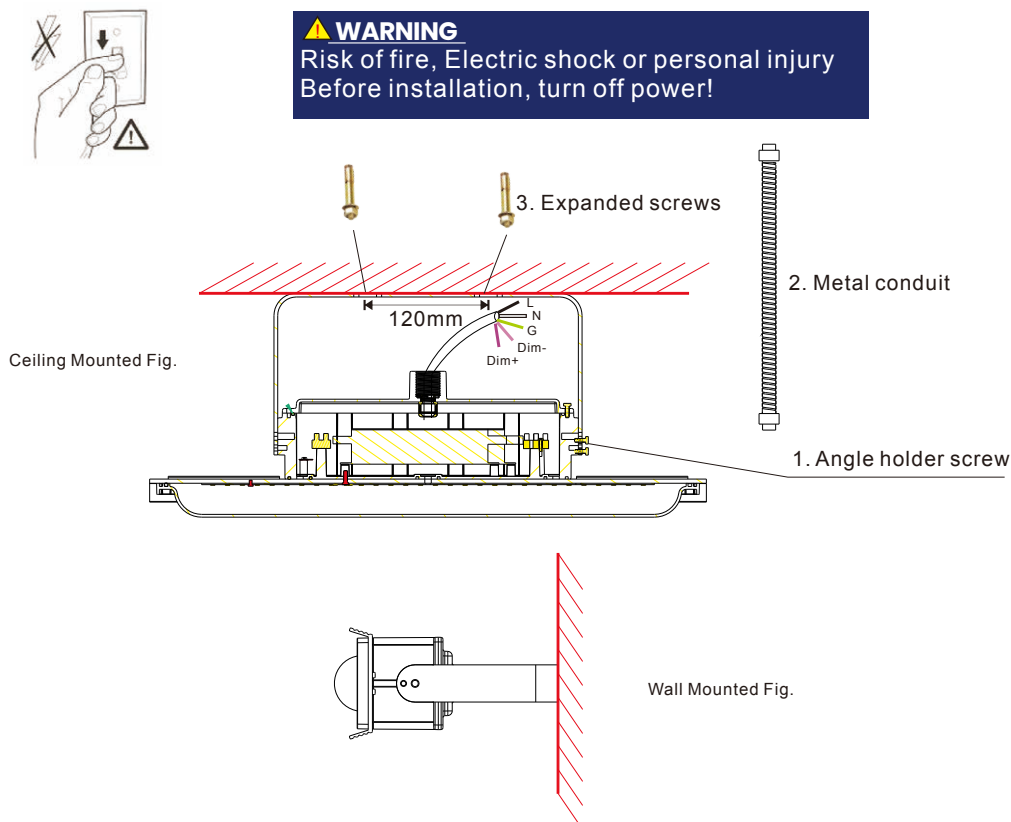
MECHANICAL DIMENSIONS



Product Model	H2	H4
Wattage	20W/40W/60W/80W/100W	40W/60W/80W/100W/120W/140W/160W/180W/200W
Outer box (L*W*H)	710x430x320mm(27.95"x16.93"x12.60")	1320x420x330mm(51.97"x16.54"x12.99")
Q'ty/Ctn	2pcs	2pcs
N.W./Ctn	4.00kg/8.82lbs	5.50kg/12.13lbs
G.W./Ctn	10.25kg/22.60lbs	14.50kg/31.97lbs
Remarks	0.7M cable	0.7M cable

INSTALLATION

Installation Steps (For Class I Div. 2 Group A, B, C, D locations)



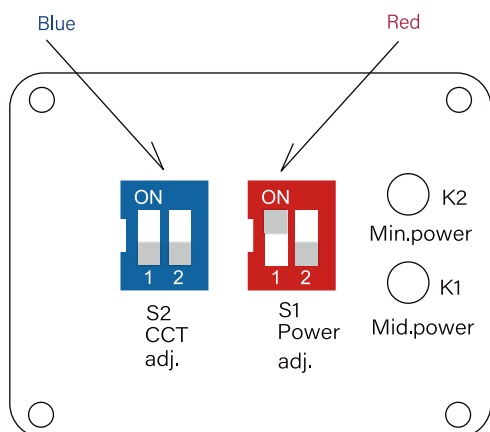
Description

1. Take the fixture and accessory out from cartoon box, tighten 2x angle holder screws.
3. Drill 2x 10mm hole as the distance 120mm, fixing $\Phi 10$ expanded screws and bracket on ceiling.

2. Through the cable to flexible metal conduit and tighten it with the fixture.

4. Connect the AC cable, Black cable connect to Live wire, white cable connect to Null wire, green cable connect to grounding. Optional: Purple connect to Dim+, Pink connect to Dim-.

POWER & CCT SELECTABLE



Power Selectable	CCT Selectable
60W/40W/30W	4000K/5000K/6500K
80W/60W/40W	4000K/5000K/6500K

Operating Instructions

• S1 DIP switch - Red (S1 Power adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three selectable output ratings. Factory default settings and power levels can be customized based on project requirements.

1. Maximum Output (100% nominal power)
Switch configuration: Dial 1 = OFF, Dial 2 = OFF;



2. Medium Output (70%-90% of nominal power, depending on specification) Switch configuration: Dial 1 = ON, Dial 2 = OFF



3. Minimum Output (50%-70% of nominal power, depending on specification) Switch configuration: Dial 1 = OFF, Dial 2 = ON



• S2 DIP switch - Blue (S2 CCT adj.)

The luminaire incorporates a dual-dial power configuration switch enabling three preset color temperature options. The factory default setting can be customized according to order requirements.

1. Cool white, e.g. 6500K
Switch configuration: Dial 1 = OFF, Dial 2 = OFF



2. Neutral white, e.g. 5000K
Switch configuration: Dial 1 = ON, Dial 2 = OFF

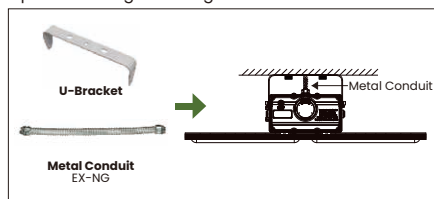


3. Warm white, e.g. 4000K
Switch configuration: Dial 1 = ON, Dial 2 = ON

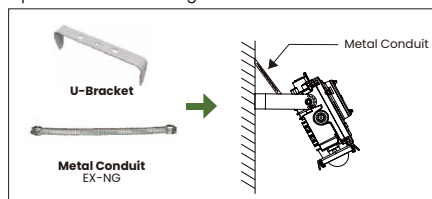


MOUNTING METHODS AND ACCESSORIES

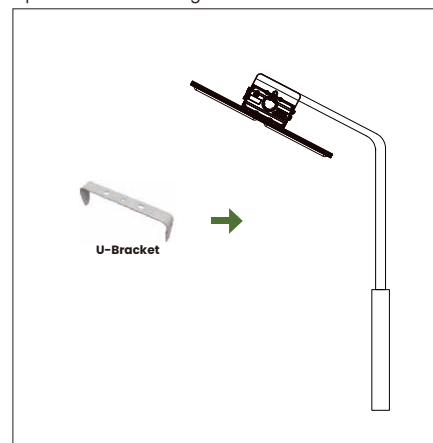
Option 1: Ceiling Mounting



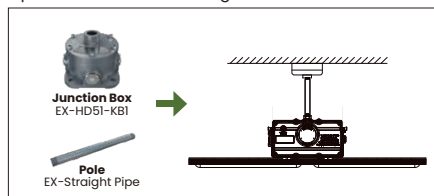
Option 2: Wall Mounting



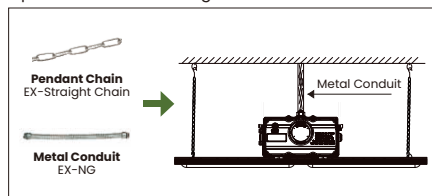
Option 3: Pole Mounting



Option 4: Pendant Mounting



Option 5: Chain Mounting



ORDER INFORMATION

EX-YY-YY-YY-YY

1 2 3 4 5 6 7 8 9

1 EX = Explosion Proof Light

2 Wattage

20W	20W
40W	40W
60W	60W
80W	80W
100W	100W
120W	120W
150W	150W
180W	180W
200W	200W

3 Shell Shape Series

H2	H2
H4	H4

4 Color Temperature

27	2700K
30	3000K
35	3500K
40	4000K
50	5000K
57	5700K
65	6500K

5 Voltage

(Blank)	100-277V
H	277-480V

6 Dimmable

D	0-10V Dimming
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7 Optics

30	30°
45	45°
60	60°
90	90°
120	120°
T2	T2°
T3	T3°
T4	T4°
T5	T5°

8 Diffuser Type

CFP	Clear Flat PC
CCP	Clear Convex PC

9 Options

(Blank)	0.7M cord
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WARRANTY PERIOD
**5 YEARS
WARRANTY**



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT