



EX-G SERIES

EXPLOSION-PROOF LIGHT

Class I Division 1 & 2, Class II Division 1 & 2, Zone 1 & 2, Zone 21 & 22

INTRODUCTION

The FGE-EX-G Series Explosion-Proof Lighting is a high-performance LED lighting solution developed for hazardous and industrial environments where flammable gases, vapors, or combustible dusts may be present — including petrochemical plants, offshore platforms, refineries, and storage facilities.

Constructed with a rugged die-cast aluminum housing and impact-resistant tempered glass, the Series G provides superior explosion protection, corrosion resistance, and thermal stability. Certified for Class I Division 1 & 2, Class II Division 1 & 2, Zone 1 & 2, Zone 21 & 22 hazardous areas, it meets international Ex safety standards, ensuring maximum protection and reliability.

Featuring high-efficacy LED chips and advanced optical control, the G Series delivers up to 100 lm/W of bright, uniform illumination with reduced glare and lower energy consumption. With IP66 protection, anti-vibration structure, and excellent heat dissipation, it ensures long-lasting performance in extreme conditions.



COMPLIANCE

Class I, Division 1, Groups C, D
 Class I, Division 2, Groups A, B, C, D
 Class II, Division 1, Groups E, F, G
 Class II, Division 2, Groups F, G
 Class III
 UL 1598, UL1598A



FEATURES



100lm/W

High Efficacy & Energy Saving: Up to 100 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.



EMERGENCY
BACKUP

90 Minutes EM Back-up Options: Ensuring safety and visibility during critical moments.(Only for A3 and A4.)



RELIABLE
WARRANTY

Reliable Warranty: 5 Years Warranty.

- Robust Protection:

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

- Superior Thermal Management:

Die-cast aluminum housing with optimized heat sink for reliable performance.

- Versatile Mounting Options:

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

- Wide Input Voltage:

AC100-277V, suitable for global power grids.

APPLICATIONS



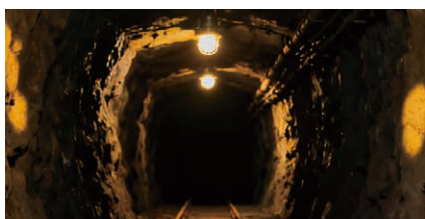
Paper Mills: Providing safe and stable illumination in dust-rich environments to reduce ignition risks and support continuous operation.



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.

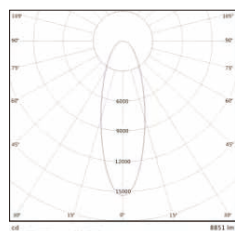


Heavy Industrial Facilities: Delivering long-lasting explosion-proof lighting for harsh industrial sites exposed to dust, oil mist, and mechanical impact.

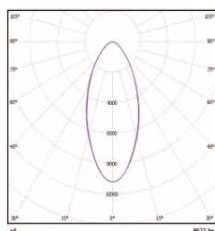
TECHNICAL PARAMETERS

Product Model	EX-10W	EX-20W	EX-30W	EX-40W
Electrical Performance				
Wattage	10W	20W	30W	40W
Input Voltage	AC100-277V	AC100-277V	AC100-277V	AC100-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9	>0.9
Surge Protection	6KV	6KV	6KV	6KV
THD	<20%	<20%	<20%	<20%
Optical Performance				
Luminous Efficacy	100lm/W	100lm/W	100lm/W	100lm/W
Luminous Flux	1000lm	2000lm	3000lm	4000lm
CCT	2200K-7000K	2200K-7000K	2200K-7000K	2200K-7000K
CRI	Ra>70	Ra>70	Ra>70	Ra>70
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°	40°/60°/90°/120°	40°/60°/90°/120°
Unified Glare Rating (UGR)	-	-	-	-
Reliability				
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-40 ~ +65°C	-40 ~ +65°C	-40 ~ +65°C	-40 ~ +65°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66
Impact Resistance	IK08	IK08	IK08	IK08
Control				
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Sensor	No	No	No	No
Communication Protocol	-	-	-	-
Emergency Kit	No	No	No	No
Mechanical				
Housing Material	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum
Lens Material	Glass	Glass	Glass	Glass
Coating	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040
Net Weight	4.65kg	4.65kg	6.5kg	6.5kg
Dimensions	Φ175x311.15mm	Φ175x311.15mm	Φ175x311.15mm	Φ175x311.15mm
Warranty	5 Years	5 Years	5 Years	5 Years

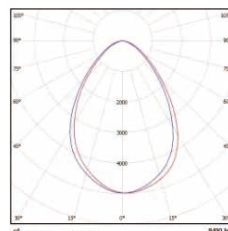
PHOTOMETRICS



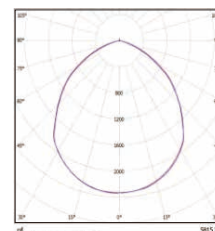
40°
Flat Glass Lens



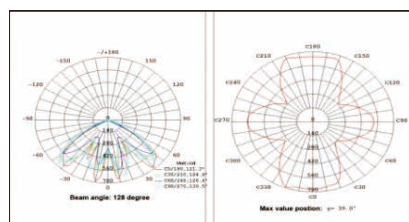
60°
Flat Glass Lens



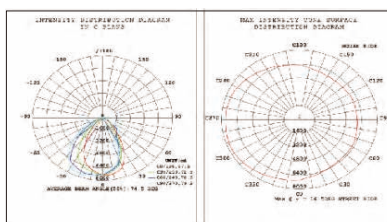
90°
Flat Glass Lens



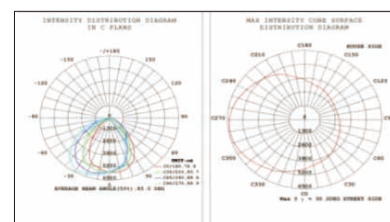
120°
Flat Glass Lens



Spherical Glass Lens

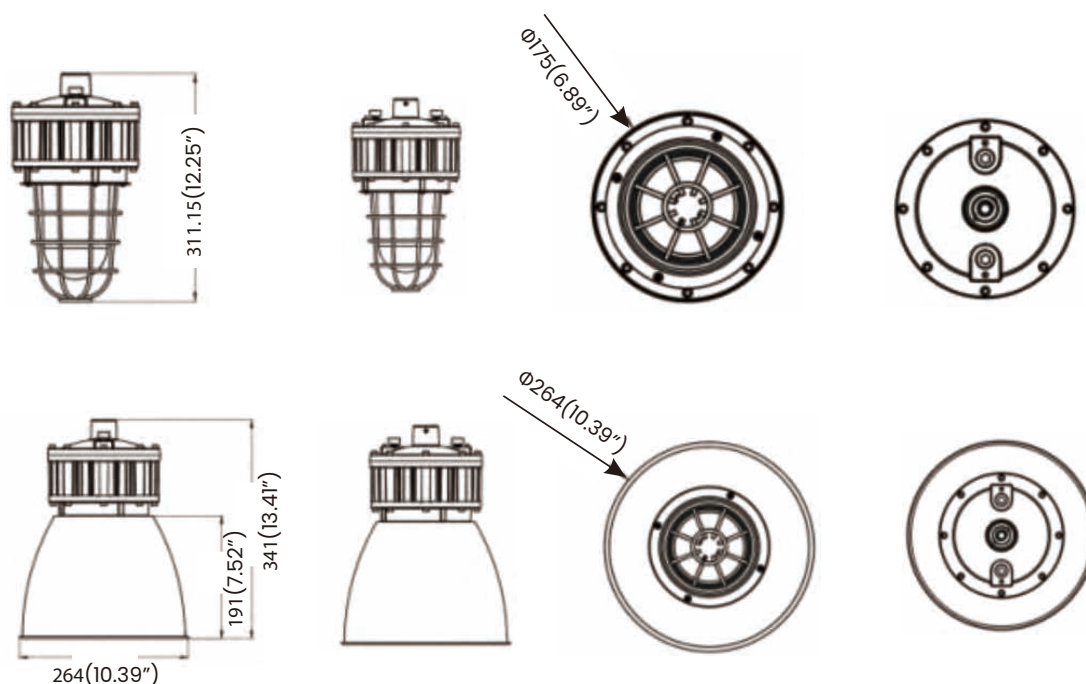


Spherical Glass Lens with Lampshade



Spherical Glass Lens with Cutted Lampshade

MECHANICAL DIMENSIONS

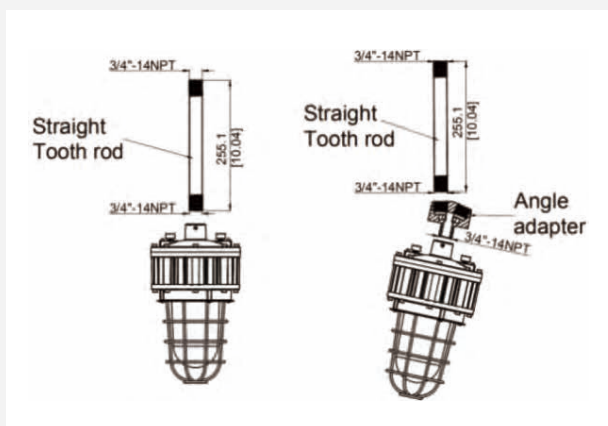


Product Model	G	G (with 25° pole stanchion)
Wattage	10W/20W/30W/40W	10W/20W/30W/40W
Outer box (L*W*H)	380x265x255mm(14.96x10.43x10.04")	510x560x260mm(20.08x22.05x10.24")
Q'ty/Ctn	1pc	1pc
N.W./Ctn	4.65kg/10.25lbs	6.50kg/14.33lbs
G.W./Ctn	5.40kg/11.90lbs	8.00kg/17.64lbs
Remarks	0.7M cable	0.7M cable

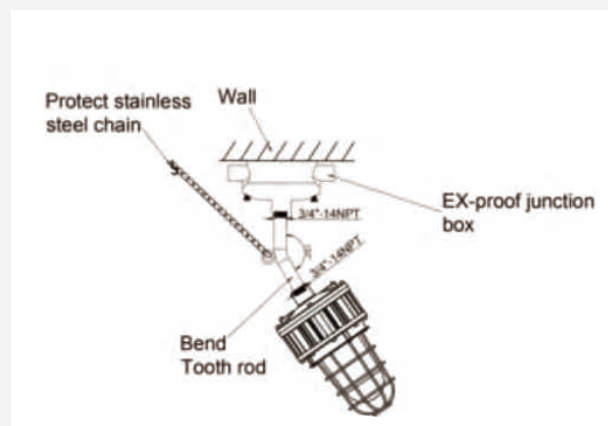
INSTALLATION

Ceiling Mounting

1. Seal the ring until the lamp body and the joint are tightened in the junction box, then tighten the set screw.

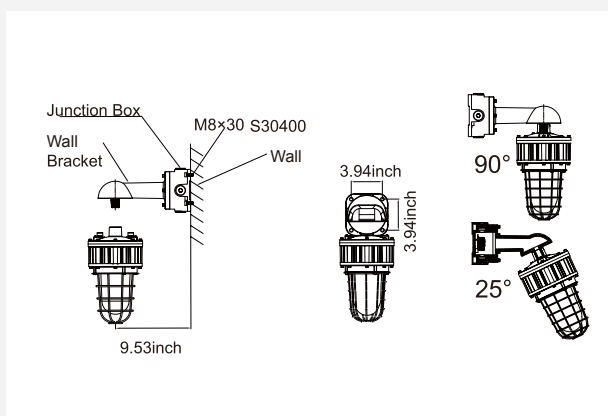


2. Pass the connector through the cable, screw tightened in the junction box, then tighten the set screw. It in the steel tube, tighten the set screw, and then thread the cable through the spacer.

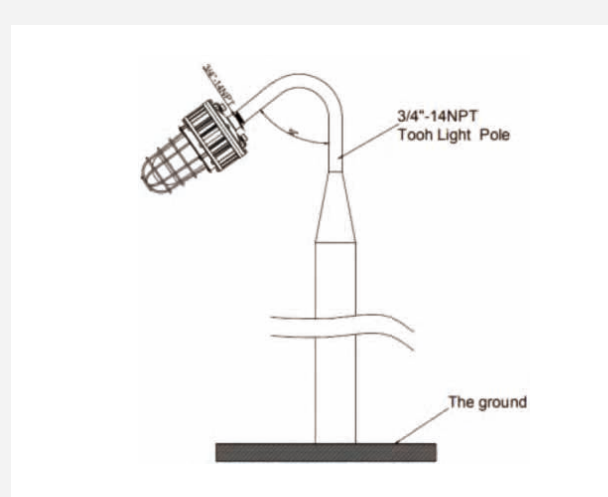


Wall Mounting

Mount the lamp body on the wall through the bracket, and pass the cable through the connector, gasket and seal ring in sequence to the junction box. Then fix the lamp.

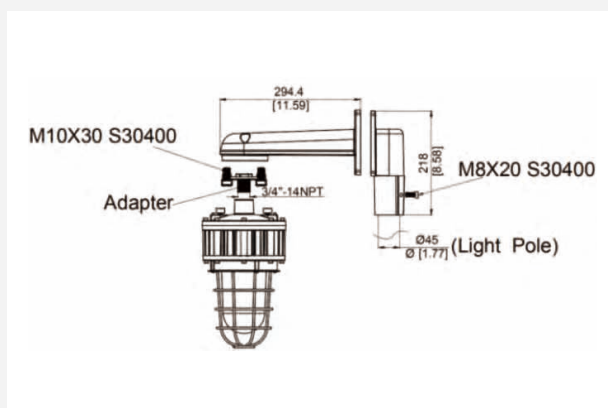


Pole Mounting:

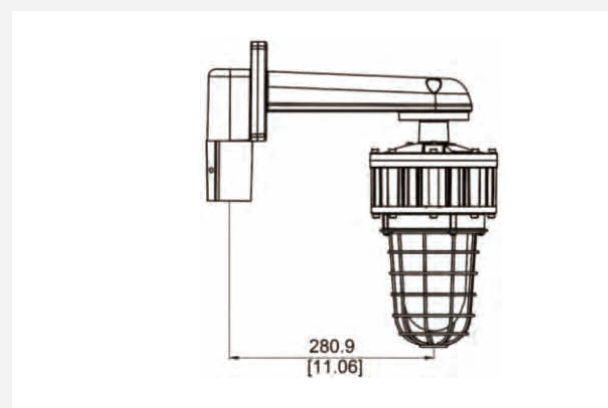


Light Pole Mounting

1. Punch tapping on the top of the mounting.



2. Tighten the set screw.



ACCESSORIES



ORDER INFORMATION

EX-YY-YY-YY-Y

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① EX = Explosion Proof Light

② Wattage

10W	10W
20W	20W
30W	30W
40W	40W

③ Shell Shape Series

G	G
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④ Color Temperature

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

⑤ Dimmable

D	0-10V Dimming
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⑥ Optics

40	40°
60	60°
90	90°
120	120°

⑦ Glass Type

(Blank)	Flat Glass
C	Spherical Glass

⑧ 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