



EX-O SERIES

EXPLOSION-PROOF LIGHT

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

INTRODUCTION

The FGE-EX-O Series Explosion-Proof Lighting is a compact and efficient floodlight designed for outdoor hazardous zones. With its lightweight aluminum housing, high-transmittance glass lens, and integrated driver design, it provides stable, safe, and bright illumination even in explosive environments.

Rated for Class I Division 2, Class II Division 1 & 2, Zone 1 & 2, Zone 21 & 22, the Series O achieves up to 100 lm/W, offering reliable lighting for oil depots, chemical plants, and maintenance areas.

Its IP66 waterproof structure and corrosion-resistant coating make it ideal for outdoor or coastal applications, delivering long-term, maintenance-free operation.



COMPLIANCE

UL844 Hazardous Locations
Class I Division 2, Group A, B, C, D
UL1598 Wet Locations
UL1598A Marine Outside Type
UL8750 LED Safety



FEATURES



100lm/W

High Efficacy & Energy Saving: Up to 100 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



EMERGENCY
BACKUP

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



0-10V
DIMMABLE

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



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, and pole mounting for flexible installation.

- Wide Input Voltage:

AC100-277V, suitable for global power grids.

APPLICATIONS



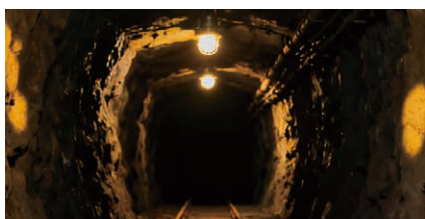
Paper Mills: Providing safe and stable illumination in dust-rich environments to reduce ignition risks and support continuous operation.



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.

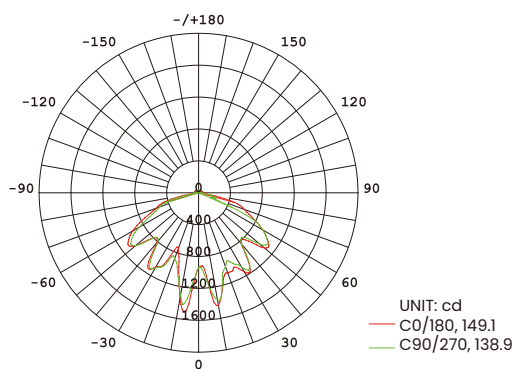


Heavy Industrial Facilities: Delivering long-lasting explosion-proof lighting for harsh industrial sites exposed to dust, oil mist, and mechanical impact.

TECHNICAL PARAMETERS

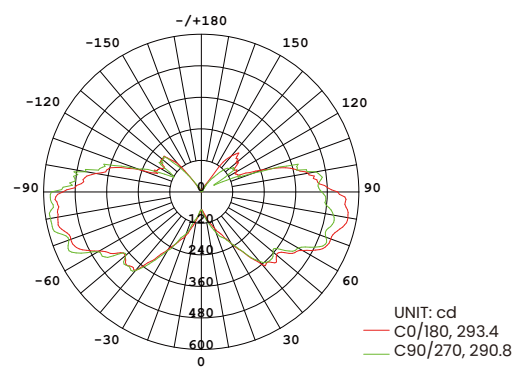
Product Model	EX-10W	EX-20W	EX-30W	EX-40W
Electrical Performance				
Wattage	10W	20W	30W	40W
Input Voltage	AC100-277V	AC100-277V	AC100-277V	AC100-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.95	>0.95	>0.95	>0.95
Surge Protection	6KV	6KV	6KV	6KV
THD	20	20	20	20
Optical Performance				
Luminous Efficacy	100lm/W	100lm/W	100lm/W	100lm/W
Luminous Flux	1000lm	2000lm	3000lm	4000lm
CCT	2700K-6500K	2700K-6500K	2700K-6500K	2700K-6500K
CRI	Ra>70	Ra>70	Ra>70	Ra>70
Beam Angle	150°	150°	300°	300°
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	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
Coating	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040
Net Weight	2.6kg	2.8kg	2.9kg	2.9kg
Dimensions	Φ165x328mm	Φ165x328mm	Φ165x328mm	Φ165x328mm
Warranty				
Warranty	5 Years	5 Years	5 Years	5 Years

PHOTOMETRICS



AVERAGE BEAM ANGLE (50%) : 150 DEG

10W / 20W



AVERAGE BEAM ANGLE (50%) : 300 DEG

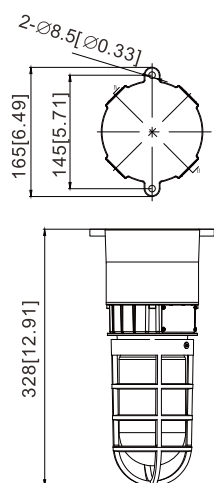
30W / 40W

MECHANICAL DIMENSIONS

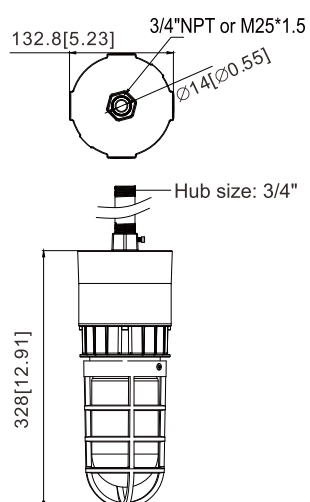
Product Model	O(with Globe Guard; Top Suction Installation)	O(with Globe Guard; 90° Wall Mounting)	O(with flat guard)
Wattage	10W/20W/30W/40W	10W/20W/30W/40W	10W/20W/30W/40W
Outer box (L*W*H)	369.8x270.0x240.0mm(14.56"x10.63"x9.45")	420.1x340.1x240.0mm(16.54"x13.39"x9.45")	264.9x380.0x255.0mm(10.43"x14.96"x10.04")
Q'ty/Ctn	1pc	1pc	1pc
N.W./Ctn	2.70kg/5.95lbs	3.70kg/8.16lbs	2.00kg/4.41lbs
G.W./Ctn	3.20kg/7.06lbs	4.20kg/9.26lbs	2.50kg/5.51lbs
Remarks	0.7M cable	0.7M cable	0.7M cable

With Emergency (unit: mm[inch])

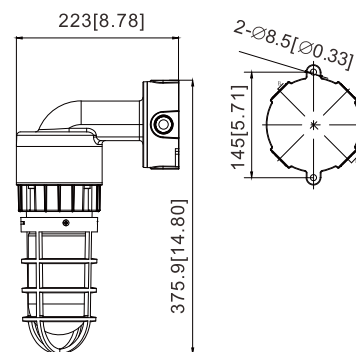
Ceiling Mount – Long



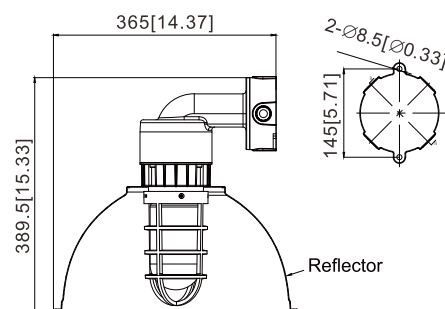
Pole Mount – Long



90° Wall Mount – Long

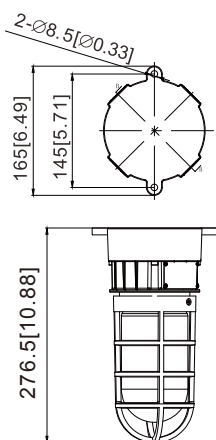


90° Wall Mount Wall Mount with Reflector – Long

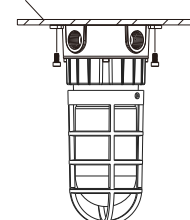


Without Emergency (unit: mm[inch])

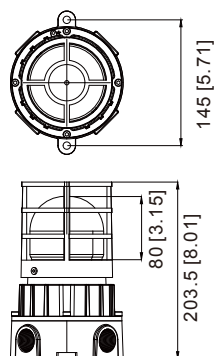
Ceiling Mount - Long



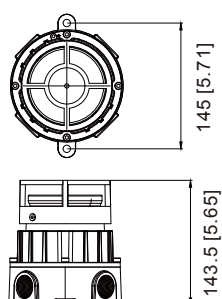
M5*15mm socket head screw



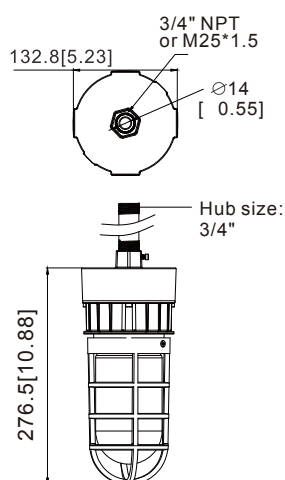
Ceiling Mount - Medium



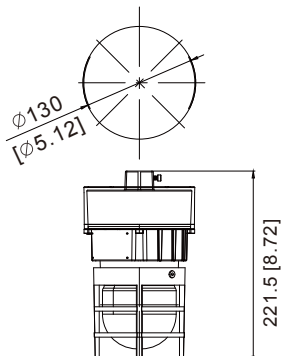
Ceiling Mount - Short



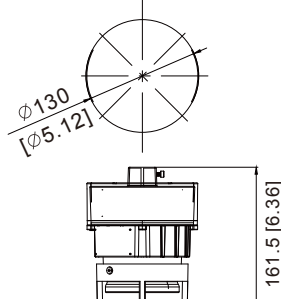
Pole Mount - Long



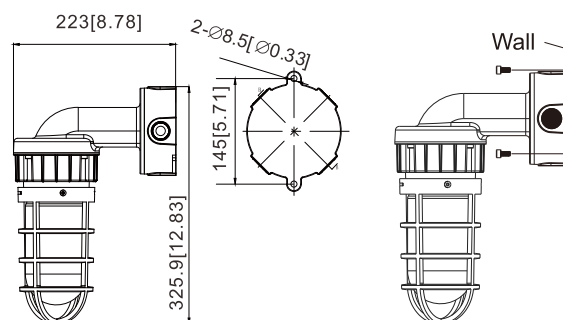
Pole Mount - Medium



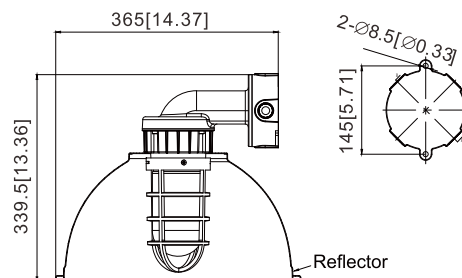
Pole Mount - Short



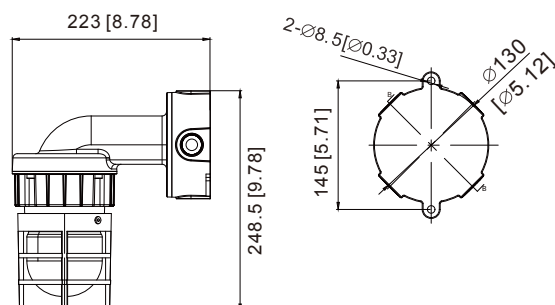
90° Wall Mount - Long



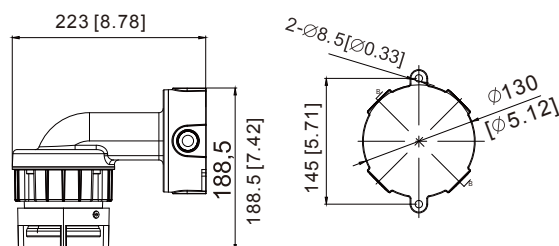
90° Wall Mount with Reflector - Long



90° Wall Mount - Medium



90° Wall Mount - Short



Note: Thickness of diffuser is 4.5mm [0.18inch].

MOUNTING METHODS AND ACCESSORIES

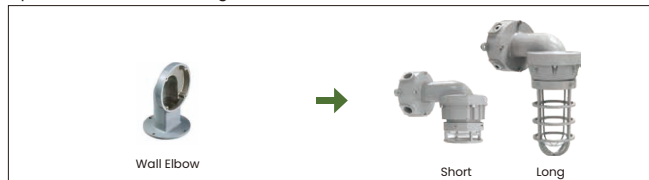
Option 1: Ceiling Mounting



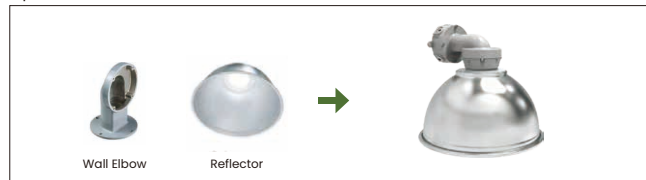
Option 2: Pole Mounting



Option 3: 90° Wall Mounting



Option 4: Reflector Available



SPARE PARTS



ORDER INFORMATION

EX-YY-YY-YY-YY

1 2 3 4 5 6 7 8 9

1 EX = Explosion Proof Light

2 Wattage

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

3 Shell Shape Series

O	O
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4 Color Temperature

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

5 Dimmable

D	0-10V Dimming
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6 Optics

150	150°
300	300°

7 Glass Type

C	Long Globe Glass
S	Short Glass
M	Middle Long Globe Glass

8 Mounting Type

M1	Ceiling mounting
M2	Pole mounting
M3	90° wall mounting

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