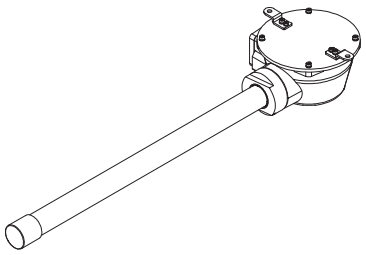
Explosion proof Emergency LED Light

QLEX-SLM-650-EMG



Thank you for purchasing Qlight's products. Please read this user manual carefully prior to installation and operation to ensure safe and correct use.

⚠ Safety Precautions for Explosion Proof Products

Please follow the instruction below to ensure safe and correct use of explosion proof products.

1. Explosion proof products should be managed according to explosion-proof regulations. Do not disassemble, assemble, alter or repair the product arbitrarily.
2. The temperature rating of the product is the temperature the product will experience at the applied rated voltage and ambient temperature indicated.
3. Use cable glands that satisfy the product's explosion proof grade and temperature grade.
4. Before installing the product, please make sure all cautions indicated on the labels, packaging, and operation manual of the product are fully understood.
5. Installation, maintenance and repair of the product must be performed by experts in the explosion proof field, or persons who have received relevant training.
6. For safety, the product should be installed and operated in environments that avoid high temperature and high pressure.
7. Please follow general safety precautions and avoid installing the product in locations that may generate excessive heat.
8. When installing the product in places where chemicals are located, please make sure that the environment does not have two or more incompatible chemicals mixed. For safety, please read the instruction manual carefully and be mindful of the chemical compositions where the product is used.
9. Please be careful of static electricity during product installation.
   Please eliminate static electricity by using static eliminator or handle the product with anti-static globes.
10. Default condition of emergency backup battery switch is OFF("1") position. Please turn it ON and use the product when the product is being wired.
11. In case of product abnormality, do not disassemble and contact our CS department.
    When installing the product for the first time, do not disassemble the product arbitrarily except for disassembling and assembling the terminal block cover for wiring the power line.

⚠ Precaution for Safety

Failure to follow the instructions below may cause a loss of life or serious physical injury.

1. During wiring or maintenance, please completely turn off the power of the product. (Failure to follow this may lead to an electric shock.)
2. Do not install the product in locations that subjects it to excessive dust or water other than the conditions designated by the IP protection ratings indicated for each product. (Failure to follow these instructions may cause a fire to the product, electric shock, physical injury, malfunction or damage to the product.)
3. Do not alter or repair this product. If maintenance or repair service is required, please contact your local Qlight contact point.
   (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
   - When the battery needs to be replaced, please contact our CS department.
4. Please apply the correct voltage to the product. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
5. When the product is applied to a condition that may impact lives or property, please make sure to have a double safety device.
   (Failure to follow this may cause damage to property, fire, electric shock and loss of life.)

Failure to follow the proper instructions may cause damage to property, the product, or malfunction of the product that would void the warranty.

1. Please remove any objects that can interrupt ventilation around the product.
2. Please turn off the power of the product immediately if it fails to operate properly.
3. Carefully wire the product according to each product's specification.
4. Due to the nature of the product's surface, static electricity may be generated when it comes into contact with other objects. Use a damp cloth or anti-static material to remove foreign substances on the outside of the product.
5. Do not apply excessive force/impact to the product.
6. Failure to follow any of the instructions above may cause malfunction or damage to the product, fire, and electric shock.

Please scan the QR code for more detailed product information.

www.qlight.com

Ordering Specifications

QLEX-SLM	-	650-EMG	-	110/230
[Model number]		[Length]		[Voltage]
• QLEX-SLM		• 650-650mm		• 110/230-AC110V/230V

Product Specifications

■ Explosion Proof Specifications

Model number	QLEX-SLM-650-EMG
Range for operating voltage	AC110V/230V
Ex mark	KCs - Ex d IIC T6
Ambient operating temperature	–20°C ≤ Tamb ≤ +60°C
Explosion proof Zone	Zone1, Zone2
Protection rating	IP66

Zone definitions(Gas)	Zone 1	High risk gas/vapour
	Zone 2	Medium risk gas/vapour
Group definitions(Gas)	GROUP II A	Acetone, Petrol, Methanol, Propane, Toluene
	GROUP II B	Ethylene, City gas
	GROUP II C	Hydrogen, Acetylene, Carbon sulphide
Maximum surface temperature of electrical equipment	T1	450°C
	T2	300°C
	T3	200°C
	T4	135°C
	T5	100°C
	T6	85°C
Zone definitions(Dust)	Zone 21	High risk powder/dust
	Zone 22	Medium risk powder/dust
Group definitions(Dust)	GROUP III A	Ignitible fibers/flyings(more than 0.5mm)
	GROUP III B	Non-conductive dusts
	GROUP III C	Conductive dusts

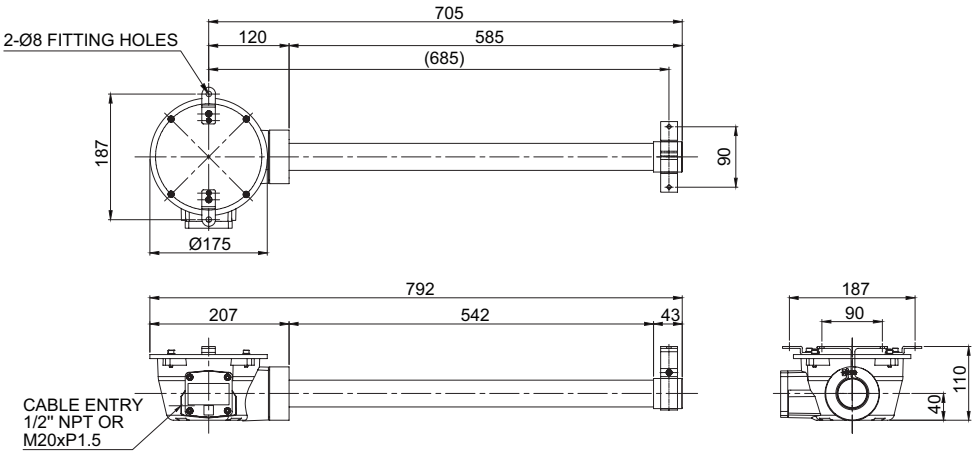
■ Optics Specifications/ General Product Specification

Optics Specifications	
Model number	QLEX-SLM-650-EMG
Lens color	Translucent
Light color (Standard)	Cooldaylight
Color temperature (Standard)	6,000-7,000 K
Luminous flux	-
Illumination(at 1m)	Min. 520Lux
General Product Specification	
Model number	QLEX-SLM-650-EMG
Rated voltage	AC110V-230V
Range for operation voltage	AC100V-240V
Power consumption	Max.33W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage	AC : 1,500V AC, 60Hz, 1 minute
Protection rating	IP66
Materials	Housing : Al, Upper cover : Al, Side cover : Al, Lens : PC, Bracket : Al
Certificate	KCs
Weight(approx.)	4.5Kg

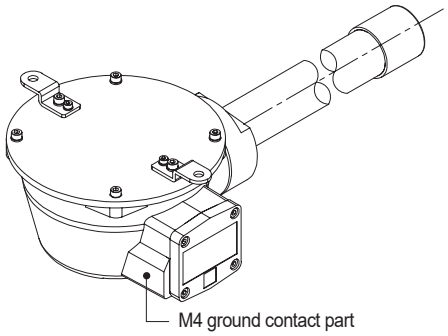
Dimensions

(Units : mm)

QLEX-SLM-650-EMG



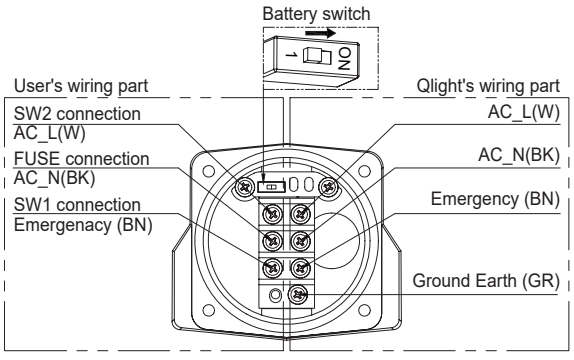
Grounding Instructions



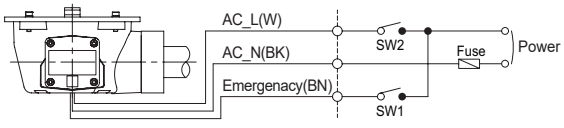
- Please use the M4 bolt to ground the product.
- When connecting the grounding cable, please use a ring terminal (Inner diameter Ø5.2).
- Please use a grounding cable with a diameter greater than 4mm.

Terminal Box Wiring Instructions/ Terminal Box Wiring Diagram

■ Terminal Box Wiring Instructions



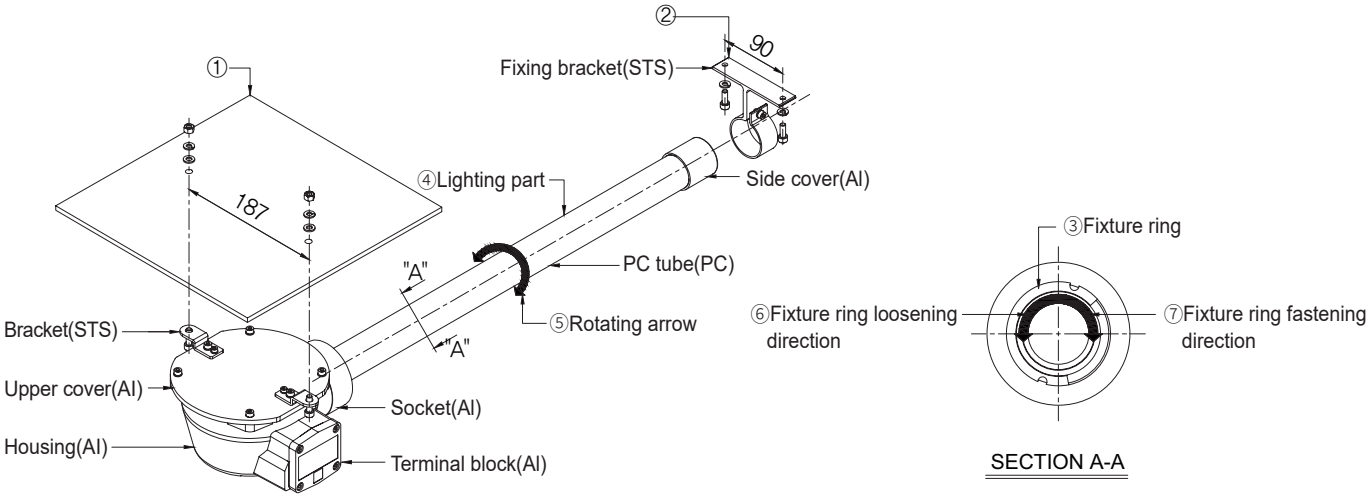
■ Terminal Box Wiring Diagram



- Terminal block is located inside of the product. Loosen the terminal block cover and disassemble the cover.
- Please apply fork (U-type) or ring (O-type) locking spade terminal at naked tip of the wire for secure connection.
- This product features battery power ON/OFF switch equipped to prevent discharge of emergency battery.
- After wiring the product, make it in the OFF“1” position as shown in the upper left figure before using.

Parts Definition/ Installation

■ **Parts Definition**



■ **Installation**

- First, machine holes on the mounting surface ①.
- The mounting hole of this product is 8mm in diameter.
- When machining taps, fasten the bolt through the mounting hole of the product.
- When machining holes, insert the bolt through the hole of the product, and tighten the nut from the opposite side of the mounting surface.
- Turn the fixture ring ③ in the loosening direction ⑥.
- Grab the lighting part ④ and turn rotating arrow in both directions ⑤ to set the place where you want to illuminate.
- Fix the fixture ring ③ in the direction of ⑦.

* Caution : Do not continuously rotate the lighting part ④ in one direction. It may cause disconnection of wiring on the lighting part.

Installation Environment and Protection Rating

- This product is designed to be explosion proof.
- Please make sure to use the product in an environment that meets the specified explosion proof rating and regulations.
- For further information, please visit our website (www.qlight.com).

Technical Certification

• Qlight products are designed to meet strict quality and technical standards. Thus, the Qlight brand is widely recognized for its high quality and technical innovations from leading institutions around the world.

ISO International Organization for Standardization

Qlight quality assurance systems have been certified by ISO by applying the ISO 9001:2008, KS Q ISO 9001:2009 regulation.

IECEx International Explosion Proof Certification (IECEx)

Certified that Qlight's products are being manufactured and manage according to international standards.

ATEX The European Regulatory Framework or Manufacture, Installation and Use of Equipment in Explosive Atmospheres

Qlight's explosion proof products comply with ATEX Directives 94/9/EC.

NEPSI National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation

Qlight's design and manufacturing system meets the People's Republic of China National explosion proof Standard.
(Chinese Standard-GB3836/GB12476)

KCs Explosion Proof Device Safety Certification System

The safety performance of machines and equipment subject to safety certification and Technical capability and production system have been certified safety certification standards.

TIIS Japan Explosion-proof Certification

TIIS is a Japanes explosion proof test and certification system accordance with the Ministry of Health, Labour and Welfare Notice and the explosion proof guidelines for factory electrical equipment. Qlight's explosion proof products hasve been tested and certified by TIIS.

CCS China Classification Society

Qlight's design and quality assurance system has been certified by the China Classification Society.

RMRS Russian Maritime Register of Shipping

Qlight's design and quality assurance system has been certified from Russian Maritime Register of Shipping.

LR Lloyd's Register

Qlight's design and quality assurance system has been certified from Lloyd's Register.

KR Korean Register of Shipping

Qlight's design and quality assurance system has been certified by the Korean Register of Shipping.

KC Korea Safety Certification

Qlight's products are certified by KC for preventing accident caused by fire.

E-mark Commission Directive Regarding Vehicle Industry

Qlight has obtained EU mark for approved vehicles and vehicle components sold into the EU(EEA : European Economic Area)

ICAO International Civil Aviation Organization

Qlight guarantees our products satisfy the criteria regulated by the International Civil Aviation Organization(ICAO, FAA).

KCC Conformity Assessment of Broadcasting Communication Equipment

Qlight has been certified to protect the electromagnetic environment that causes unwanted electromagnetic waves from the device, communication failure due to other devices or external radio waves, and malfunction of the device.

UL Underwriters Laboratories

Qlight's design and quality assurance system has been certified from UL to ensure the stability of consumption goods and to protect consumers.

CCCF China Certification Center for Security & Protection

Qlight has passed the rigorous examination process of "Passing Fire Protection Products Centering" In order to sell fire-fighting products such as fire alarm equipment to Chinese market.

CCC China Compulsory Certificate

Qlight's has obtained CCC which guarantees safety, protection against fraud, environment, etc.

CE European Commission

Qlight has been certified by the European Commission.

RoHS2 Restriction of Hazardous Substances Directive

Qlight c omplies with the Restriction of Hazardous Substances Directive by limiting its use of hazardous materials.

MEMO

MEMO

⚠ For your safety

Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
The newest product information is available on our website.(www.qlight.com)
Please read the instruction manual attached to the product carefully before installation and use.

Qlight Co., Ltd. www.qlight.com | trade@qlight.com
Head Office | Suite #1510, STX-V Tower, 128 Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea
Tel. +82-2-2679-6152(Toll free. +82-80-328-2222) Fax. +82-2-2679-6154
Factory | 185-25, Mukbang-ro, Sangdong-myeon, Gimhae-si, Gyeongsangnamdo, Korea Tel. +82-55-328-1111(Toll free. +82-80-328-1111)
Qlight OverSEAs Sales Dept | 704 Nakdong-daero, Sasang-gu, Busan, Korea(Eomgung-Dong) Tel : +82-51-620-4100
Qlight Public Relations & Marketing Team Office | 704 Nakdong-daero, Sasang-gu, Busan, Korea(Eomgung-Dong) Tel. +82-51-245-0017

Qlight USA, Inc. www.qlight.com www.qlightusa.com | sales@qlightusa.com
3003 North First Street, Suite #341, San Jose, CA 95134 USA Tel. +1-408-519-5740 Fax. +1-408-519-5739

SHANGHAI Qlight Electronic Co., Ltd. www.qlight.com www.qlightcn.com | qlightcn@qlight.com
China Factory/ Shanghai Sales Office | #19, Nanda Road, Baoshan Area, Shanghai, China Tel. +86-21-6651-7100 Fax. +86-21-6315-3929
China Factory Site 2 (Qidong) | #33, Haiyan Road, Qidong High-tech Industrial Development Zone, Qidong, Jiangsu Province, China
Tel +86-513-8384-9999 Fax +86-513-8384-9910

Qlightec
Innovation in Alarm & Signal

Product Operation Inquiry / Customer Support +82-51-620-4100
You can expect prompt service if you have exact information such as model name, symptom, telephone number and address.
※ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.
Head office : Suite #1510, STX-V Tower, 128 Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea (Postal Code : 08507)
Factory : 185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea (Postal Code : 50805)
www.qlight.com

EN - QLEX-SLM-650-EMG - 2111A