

# OPERATING MANUAL

## SH1L / SH1TL / SH2L / SH2TL

### OPERATING MANUAL

### Heavy Duty LED Steady/Flashing Light

Thank you for purchasing Q.Light product.  
Please read this manual carefully before installing this system for safe and long use of the product.

### 1 Product Feature

- AL housing product with long self-life of light source by employing high-brightness LED
- Excellent in diffusing signal light by employing unique direct-diffusion system.
- Possible to select “steady light” or “flashing light” by using built-in steady/flashing selection switch according to the purpose of use.
- Material : Lens-PC, Body-Diecast AL, Protection Cage(Optional)-SUS316L
- Standard Body Color : MUNSSELL NO. : 7.5BG 7/2
- Flashes(Flashing Type) : 60-80/Min.
- Protection Class : IP56

### 2 Specification & External View Drawing

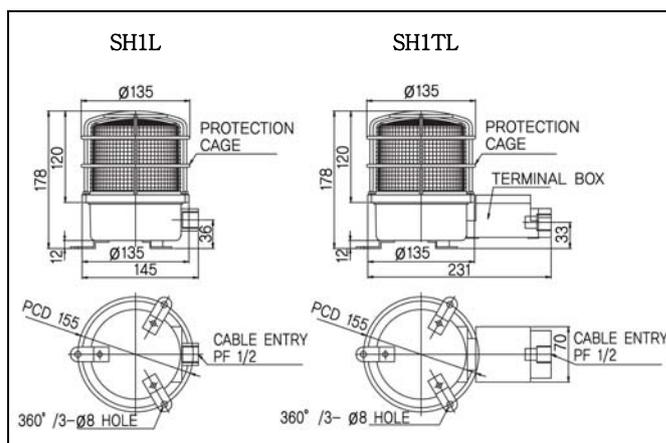
#### 1) SH1L/ SH1TL

##### General Specification

Model	Rated Voltage	Current	Weight	Flashes	Color
SH1L SH1TL (Terminal Box)	DC12V	0.200A	1.09Kg	60-80/Min.	Red-R Amber-A Green-G Blue-B
	DC24V	0.170A	1.09Kg		
	AC110V	0.050A	1.49Kg		
	AC220V	0.025A	1.49Kg		

\* Each weight above described is the net weight of SH1L except protection cage(0.25kg) and terminal box(0.46kg).

##### External View Drawing



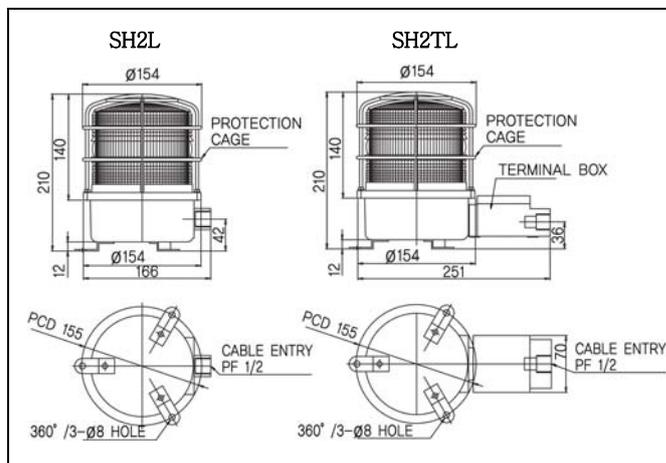
#### 2) SH2L/SH2TL

##### General Specification

Model	Rated Voltage	Current	Weight	Flashes	Color
SH2L SH2TL (Terminal Box)	DC12V	0.200A	1.17Kg	60-80/Min.	Red-R Amber-A Green-G Blue-B
	DC24V	0.170A	1.17Kg		
	AC110V	0.050A	1.57Kg		
	AC220V	0.025A	1.57Kg		

\* Each weight above described is the net weight of SH1L except protection cage(0.29kg) and terminal box(0.46kg).

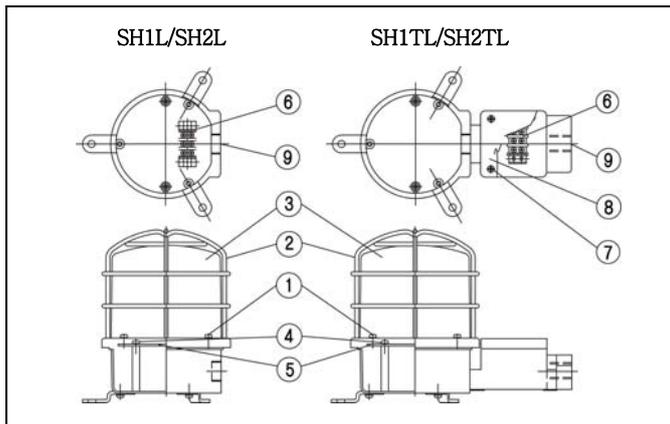
##### External View Drawing



### 3 Wiring Instruction

This product has a terminal plate inside body(SH1L/SH2L) or terminal box(SH1TL/SH2TL) for wiring.

# OPERATING MANUAL



## 1) SH1L/ SH2L

- Separate globe ring② and globe③ from the body by loosening protection cage fastening bolt(M4-4EA)①.
- Separate assembling board⑤ by loosening assembling board fastening bolt(M4 Screw : SH1L-2EA, SH2L-3EA )④ and make sure terminal plate⑥.

## 2) SH1TL / SH2TL

Separate terminal box cover⑧ by loosening terminal box cover fastening bolt(M5-4EA)⑦ and make sure terminal plate⑥.

## 3) Wiring Power Line

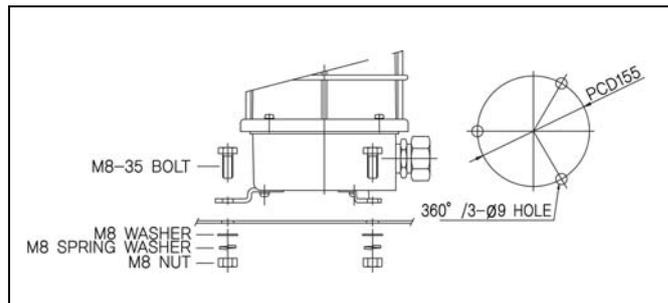
- In case of product using AC voltage, connect the line without polarity(wire color).
- In case of product using DC voltage, black line is negative(-).

## ) Treating Cable Terminal

Treat the end of power cable by using “O” or “U” type terminal for safe wiring.

## 5) Treating Power Entry

Keep the tightness of power entry⑨ by using water-proof connector(SH1L/SH2L-flexible connector #16, SH1TL/SH2TL-15C nipple is supplied as a standard specification) or cable grand.



## 5 Steady / Flashing Selection

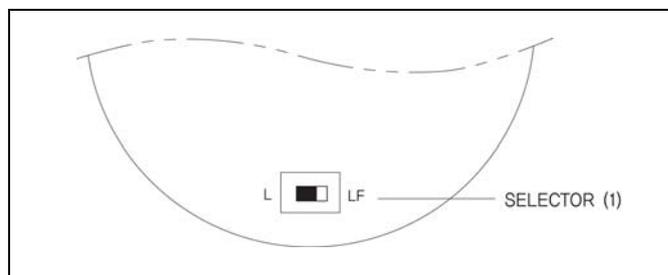
This product has a built-in switch(1) on assembling board for steady/flashing selection and AC voltage selection. Refer to following drawing and explanation for right operating.

### 1) Lens Set Removal

Refer to previous wiring diagram and separate globe ring (protection cage)② and globe③ from the body by loosening fixing bolt①(M4 bolt 4ea) and make sure voltage selection switch and steady/flashing selection switch on assembling board.

### 2) Selecting Steady/Flashing Type

Choose steady light or flashing light by using Steady/Flashing selection switch(1). “L” mode of the switch is steady type and “LF” mode is flashing type.



### 3) Lens Set Assembling

Assemble the glass lens set in reverse order of separating.

## 6 Caution

- This product is water-proof and anti-corrosion type for outdoor use. When separate and assemble the product for wiring, repair or check, keep the airtightness of the product by tightening each bolt and nut.
- Keep airtightness of cable entry by using water-proof connector or cable grand.. Product can be damaged by water or dust if the cable entry is exposed outdoor without airtightening.
- If using voltage is seriously higher or lower than rated voltage, it can reduce the self-life of the product or can cause a problem on product operating. Make sure the using voltage does not exceed +/- 5% of the rated voltage.

## 4 Mounting

This product is water-proof and anti-corrosion type. But, install with vertical direction at a place or machine where exists no big vibration and no strong impact as long as possible.

- Refer to below drawing and drill necessary mounting holes on profitable part of the product.  
(Make sure PCD from external view drawing.)
- Fix the product by using mounting bolt(M8-3EA).

# OPERATING MANUAL

- If lens or body of the product is contaminated by chemicals such as thinner, benzene, the product can be damaged, discolored or deformed. Please be careful.
- Do not give strong impact to the product. It can be a reason of wire disconnection or short circuit.

## 7 Troubleshooting

Situation	Main Cause	Solution
Non- Lighting Partly	LED is Partly Damaged Supplying Higher Voltage than Rated Voltage	Making Sure Using Voltage
Feeble Lighting	Supplying Voltage Lower Than Rated Voltage	Making Sure Using Voltage
Lighting but Non-Flashing	Wrong Operating L/LF Selection Switch	Convert L/LF Selection Switch
	Problem L/LF Select on Switch	Contact Q Light or Their Agent
Neither Lighting nor Flashing	Wrong Wiring	Making Sure Wiring
	No Power Supply	Making Sure Power Supply

### — For A/S & Information on Product

#### Q-LIGHT CO., LTD.

<http://www.qlightkr.com>

E-mail : [qlightkr@qlightkr.com](mailto:qlightkr@qlightkr.com)

#### Seoul Office (Domestic Sales & A/S)

Tel) 02-2679-6152

Ansung BD A-312, 410-13 Sindorim-Dong, Guro-Gu, Seoul

#### Overseas Marketing Team / Plant

Tel) 055-328-4082 Fax) 055-328-4083

Plant #1 : 178-1 Woogye-Ri, Sangdong-Myun, Kimhae-Si, KyungNam, Korea

Plant #2 : 417-1 Geumsa-Dong, Geumjung-Gu, Busan