

SH1 / SH1T / SH2 / SH2T

OPERATING MANUAL

Heavy Duty Bulb Revolving Warning light

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

1 Product Feature

- AL housing product of Long durability.
- Ensuring high revolving durability by applying a special power transmission system to minimize noise and wear which is gained a patent.
- RPM: 120~140RPM(can control)
- Material: Lens-PC, Body-DIECAST Al, Reflector-PC, Protection cage(If adding)-SUS316L
- Protection Class: IP56
- Standard body color: MUNSSELL NO. : 7.5BG 7/2

2 Specification & External View Drawing

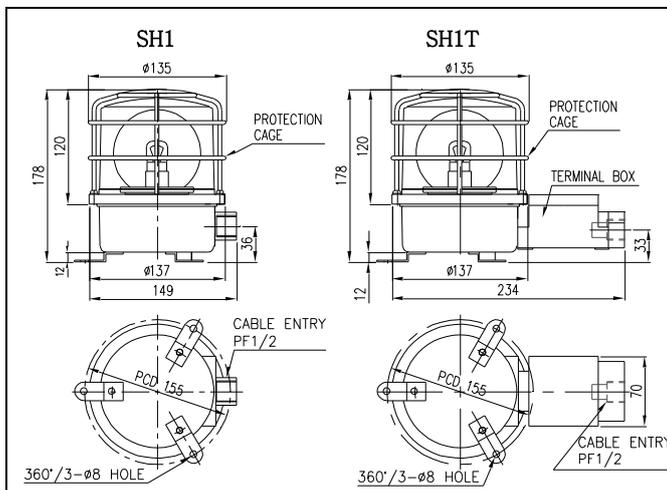
1) SH1 / SH1T

• General Specification

Model	Rated Voltage	Current	Bulb		Weight	Color
SH1	DC12V	1.544A	12V15W	G23 15S	1.22Kg	RED-R
	DC24V	0.766A	24V15W	G23 15S		18
SH1T (add terminal box)	AC110V	0.204A	12V15W	G23 15S	1.61Kg	GREEN-G
	AC220V	0.102A	12V15W	G23 15S		17

* Upper weight is SH1's weight which is not added the protection cage(0.25kg) and the terminal box(0.46kg).

• External View Drawing



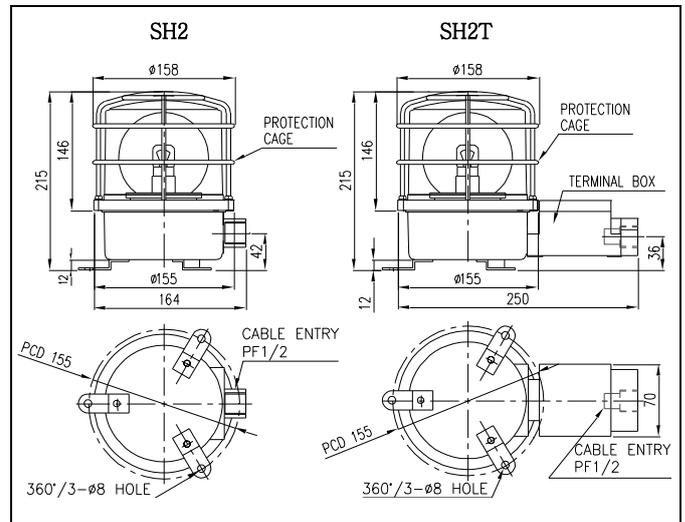
2) SH2/SH2T

• General Specification

Model	Rated Voltage	Current	Bulb		Weight	Color
SH2	DC12V	1.544A	12V15W	G23 15S	1.38Kg	RED-R
	DC24V	0.766A	24V15W	G23 15S		18
SH2T (add terminal box)	AC110V	0.204A	12V15W	G23 15S	1.77Kg	GREEN-G
	AC220V	0.102A	12V15W	G23 15S		17

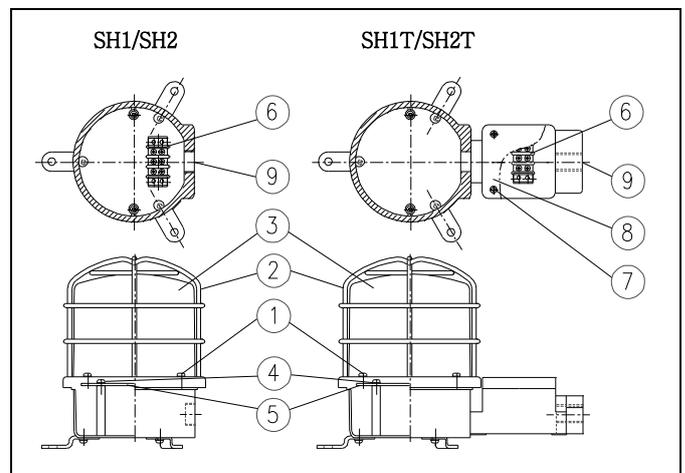
* Upper weight is SH2's weight which is not added the protection cage(0.25kg) and the terminal box(0.46kg).

• External View Drawing



3 Wiring Instruction

This product has a terminal port for connecting power line in its body(SH1/SH2) or terminal box(SH1T/SH2T).



1) SH1/ SH2

- Release the protection cage bolts(M4-4EA)① and take off the lens ring(protection cage)② and lens③.

- Release the inner board bolts(M4 Screw: SH1-2EA, SH2-3EA) ④ and take off the board⑤ then check terminal port⑥.

2) SH1T / SH2T

Release terminal port cover bolts(M5-4EA)⑦ and take off terminal port cover⑧ then check terminal port⑥.

3) Connect 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(-).

4) the end of line

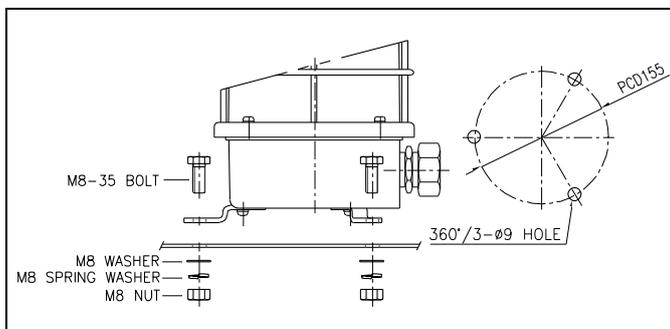
- Please use the "O" or "U" shaped terminal for the end of line for a safety use.

5) Line entry

Please use cable entry⑨ with water-proof connector(SH1/SH2-flexible connector#16, SH1T/SH2T-15C nipple is supplied as a standard) or cable gland to keep airtight.

4 Mounting

- This product was manufactured with anti-dust and water proof structure for outdoor use. Mount at the place where exist low vibration, low impact, low moisture and low dust on the vertical standing direction.
- Please make a hole by a drill where you need to attach our product and refer to below picture for a hole size. (Make sure PCD from external view drawing.)
- Fix the product by using another nuts(M8-3EA).



5 Voltage Selection(AC type), Revolving Speed Control, Bulb Change

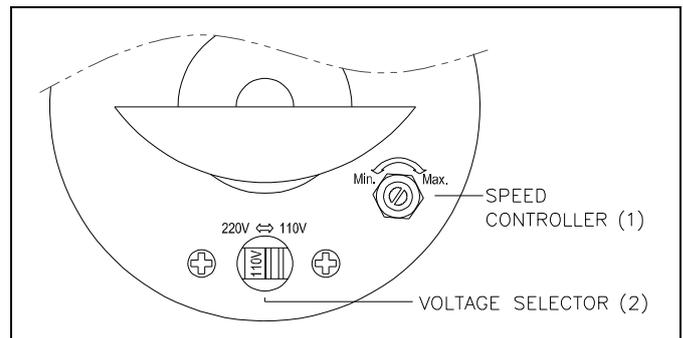
This product has (2) VOLTAGE SELECTOR to change voltage selection and (1) SPEED CONTROLLER to control revolving speed on an assembling board. Please kindly see below drawings and explanation carefully.

1) Lens Removal

Release the bolts①(M4-4EA) and take off the lens ring(protection cage)② and lens③ from the body. Make sure voltage selection switch and volume on the assembling board.

2) Revolving Speed Control

- This product built-in a volume for revolving speed control. Turn it clockwise for increasing revolving speed and turn it counterclockwise for decreasing revolving speed.
- Apply too many forces, the volume may be destroyed. Please be careful.



3) AC Voltage Selection

※ Warning!

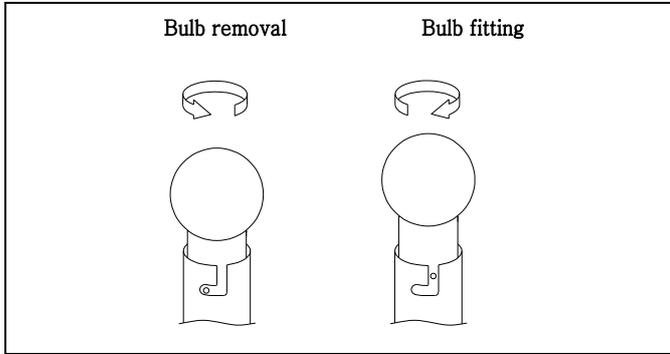
- Must turn off power supply. Converting switch when supplying power can cause short circuit.
- Can choose one of AC110V and AC220V by using voltage selection switch(2). **220V is already selected for a standard product. So please convert the switch to 110V if needed.**

4) Bulb Change

※ Warning!

- Must turn off power supply and change bulb after 1 minute at least.
- Make sure the rated voltage and wattage of new bulb. If the voltage of new bulb is higher than original bulb, the life of product can be reduced and can cause damage on lens and reflector. Therefore, please use the bulb which has the same or lower rated voltage and wattage.

- **Bulb Removal:** Press slightly the bulb downward and turn it counterclockwise for removing.
- **Bulb Fitting:** Fit new bulb into the socket by pressing it clockwise.



5) Lens Assembling

Assemble the product in reverse order of separating.

6 Caution

- This is designed for explosion proof and water proof/dust proof product. **When releasing the product for checking, connecting etc, must keep airtight by making sure bolts.**
- Use explosion-proof cable grand to keep airtight which is satisfied with explosion-proof regulation. **If the line entry is not kept airtight and put outdoor**, this can cause a product damage by moisture and dust.
- 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.
- 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.

7 Troubleshooting

Situation	Main reason	Solution
Non- Lighting Partly	Wire Disconnection of Bulb	Wire Re-connection or Bulb Change
Feeble Lighting Low Revolving Speed	Supplying Voltage Lower than Rated Voltage	Making Sure Using Voltage
	choose the wrong Voltage selection switch (AC type)	Checking voltage
	Adjust wrong for the Revolving Speed	Make Revolving Speed higher
Short Self-Life of Bulb	Supplying Voltage Higher than Rated Voltage	Making Sure Using Voltage
Bulb overheating makes lens shape change	Using the bulb over rated capacity change	Change the rated capacity bulb
Defect of transformer(AC Voltage Type)		
Non Revolving	Problem with Motor	Contact Q.Light or Their Agent
Neither Lighting Nor Revolving	No Power Supply	Making Sure Power Supply
	Wrong Wiring	Making Sure Wiring

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