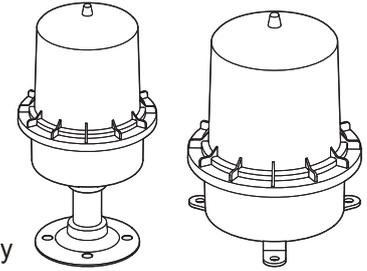


# Low Intensity LED Aviation Obstruction Light

## SAOL2/ SAOL3



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

### ⚠ Precautions 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.)
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.)

### ⚠ Precautions for Correct Use

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. Please be careful in preventing chemicals such as thinner, benzene, etc. in contact with the surface 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.

### Ordering Specifications

SAOL2	-	24	-	R
[Model number]		[Voltage]		[Color]
• SAOL2		• 12-DC12V		R- Red
• SAOL2P		• 24-DC24V		
• SAOL3		• 110/220-AC110V-220V		
• SAOL3P				



Please scan the QR code for more detailed product information.

[www.qlight.com](http://www.qlight.com)

# Product Specifications

## General Product Specifications

Model number	SAOL2	SAOL2P	SAOL3	SAOL3P
Type	Low intensity A type		Low intensity B type	
Light source	High intensity light emitting diodes(LED)			
Light color	Red			
Luminous intensity	19cd±25%		42cd±10%	
Housing color	Red			
Light function	Steady			
Rated voltage	DC12V, DC24V, AC110V-220V			
Power consumption	Max.24W		Max.30W	
Materials	Lens-PC, Housing-AI, Bracket-ST316L, Pole-ST3			
Weight(MAX.)	1.02Kg	1.58Kg	1.05Kg	1.61Kg
Cable entry	PF1/2"			
Certificate	ICAO, CE			
Protection rating	IP66			
Ambient operating temperature	-30°C - +50°C			

※ ICAO compliant: DC24V, AC110V-220V

※ CE compliant: DC12V, DC24V, AC110-220V(SAOL2/ SAOL2P)  
DC24V, AC110V-220V(SAOL3/ SAOL3P)

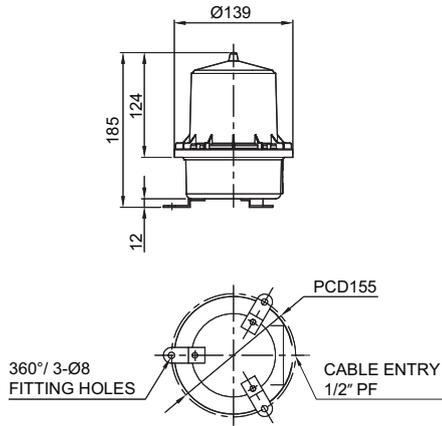
## Application Areas of Aviation Obstruction Lights

Objects inside the Obstacle Restriction Area	Obstacle certified for use at night that is 60m from the ground and is located within the Obstacle Restriction Area of an airport
Objects outside the Obstacle Restriction Area	Obstacle that is 150m from the ground
	Chimneys, steel towers, poles, frame structures, electricity pylons, or wind turbines that are 60m from the ground

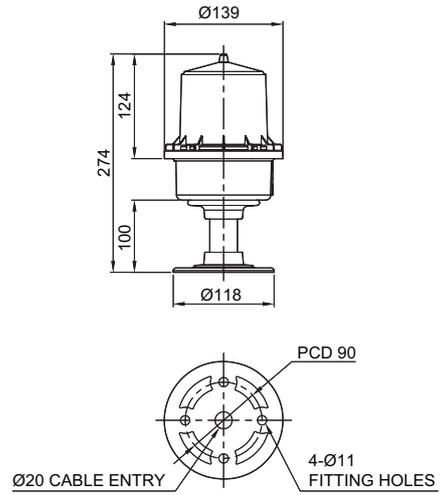
## Classification of Aviation Obstruction Lights

Low intensity A type or low intensity B type obstruction light	Obstacle that is 150m from the ground and is located within the Obstacle Restriction Area
	Low intensity A type model is installed on an obstacle that has limited mobility such as a boarding bridge
Low intensity C type obstruction light	Low intensity C type model(Blue/flashing) is installed on an emergency vehicle or security vehicle operated inside the airport
	Low intensity C type model(Yellow/flashing) is installed on a normal vehicle or mobilize object that is operated inside the airport
Low intensity D type obstruction light	Low intensity D type model(Yellow/flashing) is installed on escort vehicles that are operated inside the airport
Medium intensity A type obstruction light	Medium intensity A type warning light(White/flashing) is installed in areas where trees or buildings are widespread
	Obstacle that is 45m from the ground and is located within the Obstacle Restriction Area or an obstacle that is 150m from the ground and is located outside the Obstacle Restriction Area
Medium intensity B type obstruction light	Medium intensity B type warning light(Red/flashing) is installed in areas where trees or buildings are widespread.
	Obstacle that is 45m from the ground and is located within the Obstacle Restriction Area or an obstacle that is 150m from the ground and is located outside the Obstacle Restriction Area
Medium intensity C type obstruction light	Medium intensity C type warning light(Red/steady) is installed in areas where trees or buildings are widespread
	Obstacle that is 45m from the ground and is located within within the Obstacle Restriction Area or an obstacle that is 150m from the ground and is located outside the Obstacle Restriction Area
	Medium intensity C type warning light(Red/stead) cannot be used with other warning lights

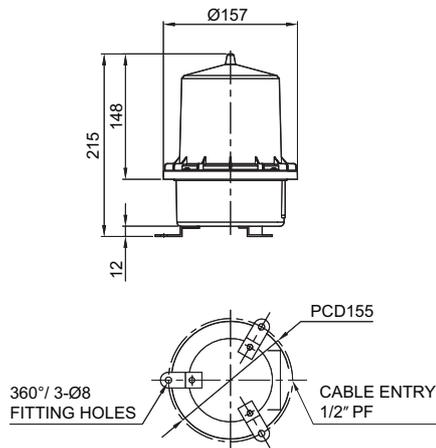
SAOL2



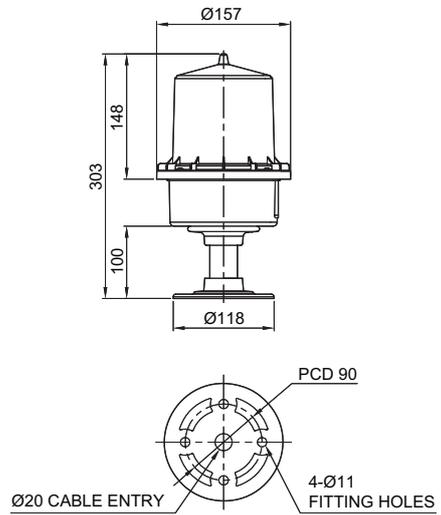
SAOL2P



SAOL3



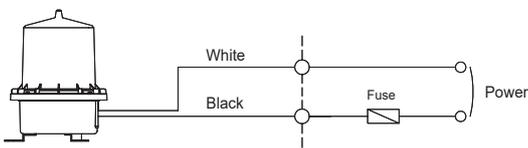
SAOL3P



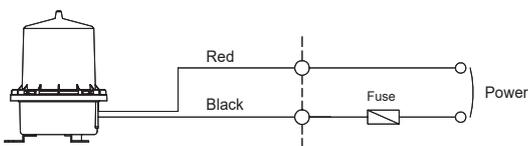
Wiring Instructions

SAOL2/ SAOL3

AC

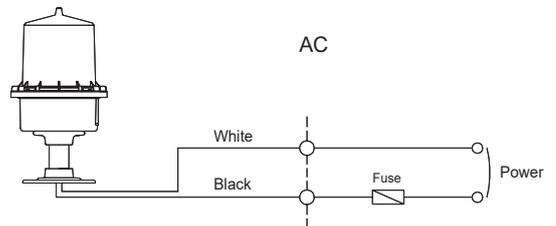


DC

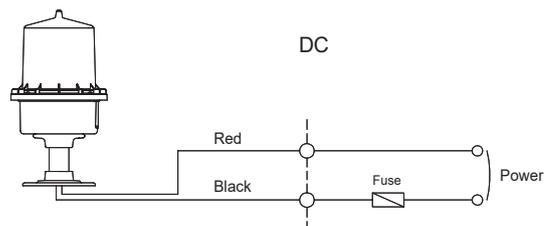


SAOL2P/ SAOL3P

AC



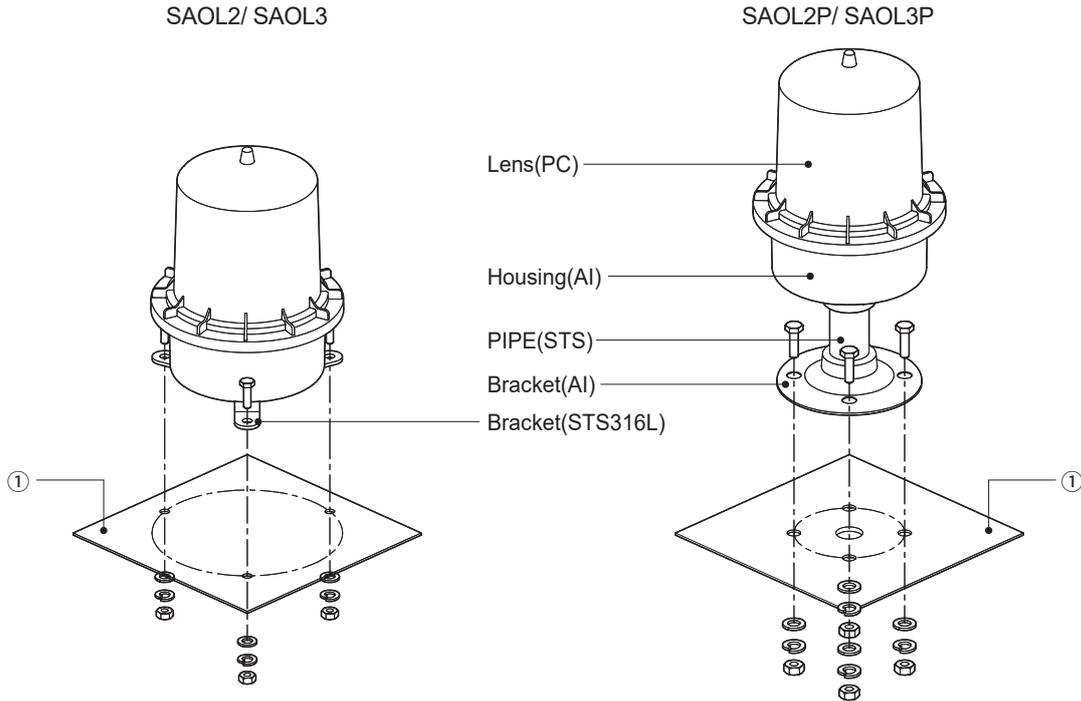
DC



- External power line - UL1015 AWG18(0.75sq) 500mm
- This product can be wired regardless of polarity.

## Parts Definition/ Installation

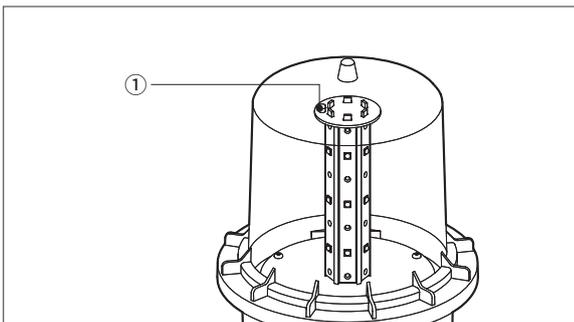
### ■Parts Definition



### ■Installation

- First, machine taps or holes on the mounting surface ①.
- The mounting hole of this product(SAOL2, SAOL3) is 8mm in diameter(hole) and SAOL2P, SAOL3P is 11mm in diameter(hole).
- 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.  
(When assembling using bolt and nut, please make sure to use flat washer and spring washer.)

### ■Built-in Ambient Light Sensor Model

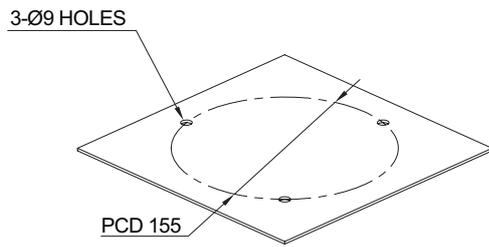


- Product with built-in ambient light sensor is available upon request.
- Ambient light sensor activates the lighting system and automatically operates the product when darkness is detected.
- Ambient light sensor is located in location(1). Please be careful to keep the outside lens clean and prevent obstacles from obstructing the ambient light sensor.

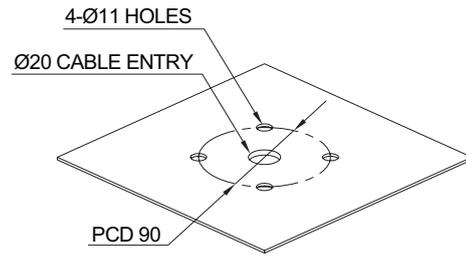
## Mounting Hole Specifications

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- Machine holes on the mounting surface referring to the diagram below.



SAOL2/ SAOL3



SAOL2P/ SAOL3P

## Installation Environment and Protection Rating

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- This product is designed for use with protection rating of IP66.
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP66), it may cause malfunction or damage to the product.
- For further information, please visit our website([www.qlight.com](http://www.qlight.com)).

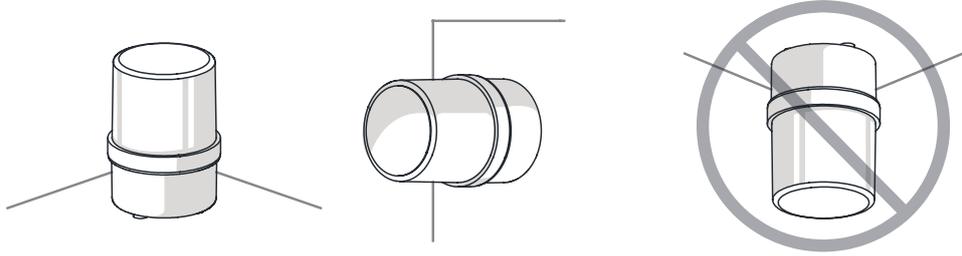
## Product installation direction

- Install the product in accordance with the manual. Otherwise rainwater or moisture may penetrate into the product.

### · BEACON/SIGNALING LIGHT

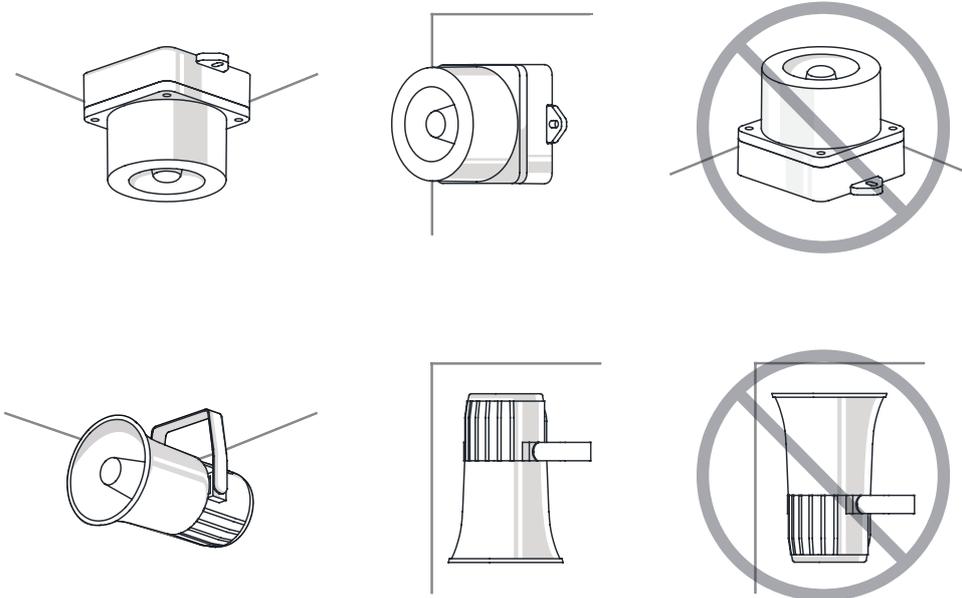
※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.



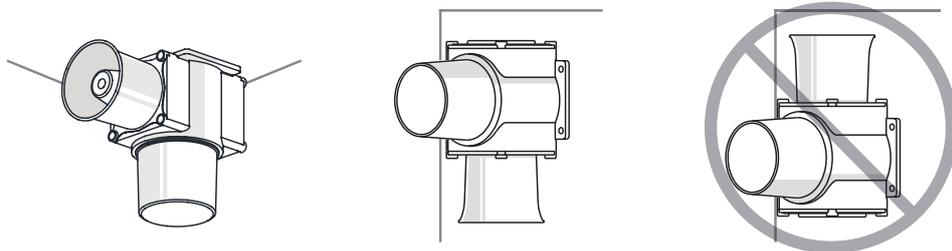
### · ELECTRONIC SOUNDER/SIGNAL HORN

Sounder part shall not be facing the sky.



### · HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

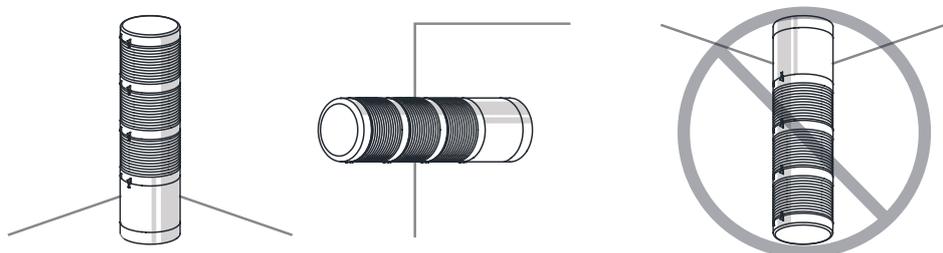
Sounder part shall not be facing the sky.



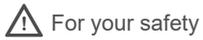
### · SIGNAL TOWER LIGHTS

※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.







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.

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**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.

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