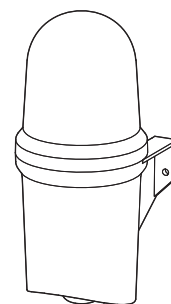


# LED Steady/Flash & Electric Horn

## QAD80H



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

QAD80H	-	12/24	-	R
[Model number]		[Voltage]		[Color]
I		I		I
• QAD80H		• 12/24-DC12V-24V		R-Red A-Amber G-Green B-Blue

### Product Specifications

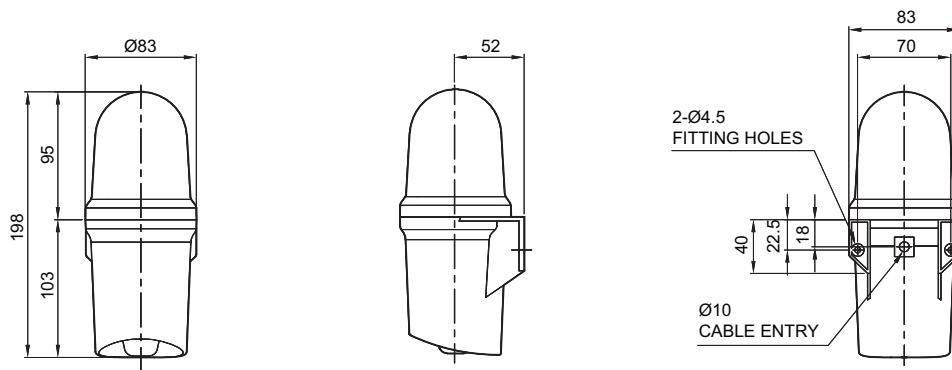
Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight	Color
QAD80H	DC12-24V	Max. 990mA	• Bit Input: 5Ch • Binary Input: 30Ch • Built-in sounds : Max.100dB (Based on WM-Ch4)	CE	0.70kg	R-Red A-Amber G-Green B-Blue

- Protection rating : IP65
- Ambient operating temperature : -30°C to +50°C



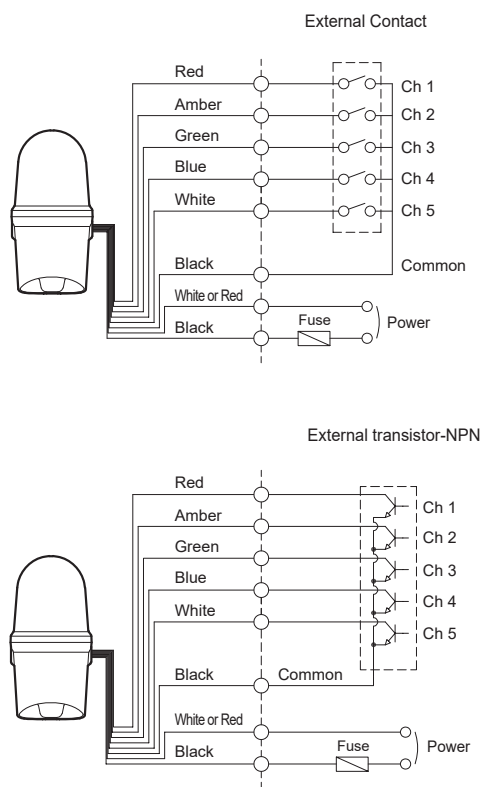
Please scan the QR code for more detailed product information.

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



## Wiring Instructions

### QAD80H



- External Power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- This product can be wired regardless of polarity.

## Bit/ Binary Input Method Depending on Wiring Method

### ■ Bit Input Mode

- Bit input mode(using external line) allows you to select one of five sound options by switching on one of the 5 channels. (Ch1 - Ch5)
- Total of 5 sound options are configurable.

### ■ Binary Input Mode

- Binary input mode(using external line) allows you to receive multiple inputs by using the 5 channels (Ch1 - Ch5) to configure one of 30 sound options.
- Total of 30 sound options are configurable.

※ The channel selection method using a transistor is the same as the External Contact method, please refer to the figure on the right.

※ The switch figure to the right explains how to wire the external contacts of a signal line product. If the product is not a signal line product, use the channel selection switch attached inside the product.

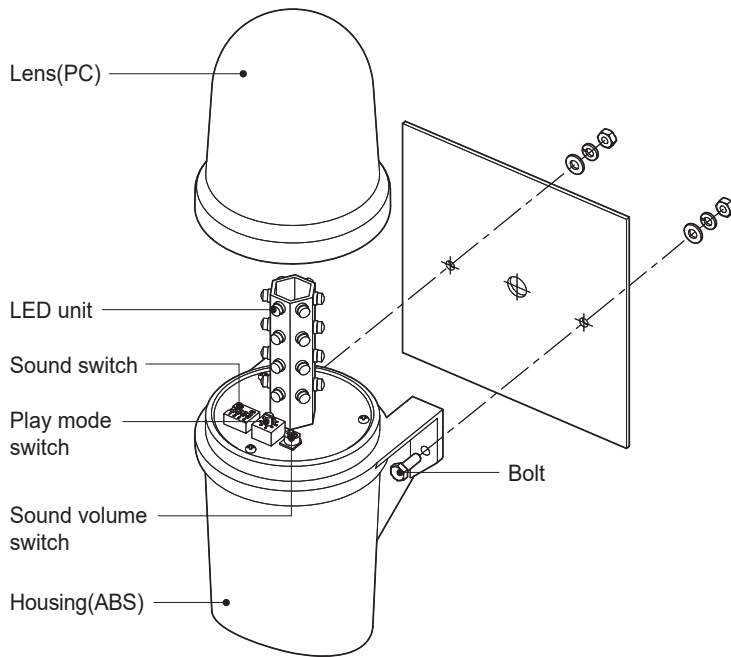
**Bit input mode**  
Can select up to 5 sound options

No.	Ch1	Ch2	Ch3	Ch4	Ch5
0	0	0	0	0	0
1	1	0	0	0	0
2	0	1	0	0	0
3	0	0	1	0	0
4	0	0	0	1	0
5	0	0	0	0	1

**Binary input mode**  
Can select up to 30 sound options

No.	Ch1	Ch2	Ch3	Ch4	Ch5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
29	1	1	1	0	1
30	1	1	1	1	0

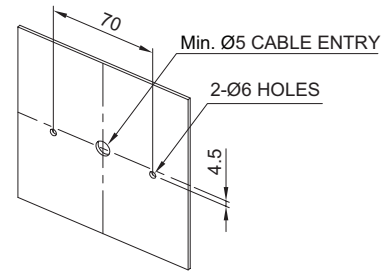
## Parts Definition/ Installation



- First, machine taps or holes on the mounting surface.
- The mounting hole of this product is 6mm 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.
- Install a flat washer and a spring washer to the bolt if the product can experience severe vibration and shock.

## Mounting Hole Specifications

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

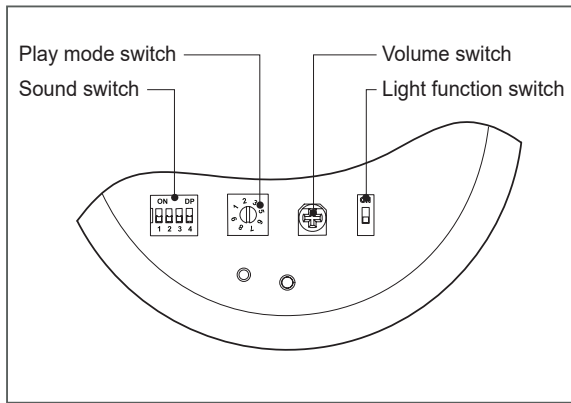


QAD80H

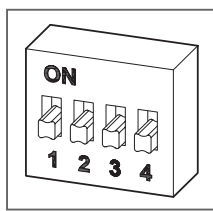
## Installation Environment and Protection Rating

- This product is designed for use with protection rating of IP65.
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP65), it may cause malfunction or damage to the product.
- In case of outdoor applications, install the product in the upright position. Do not install the product horizontal or upside-down positions where water can potentially penetrate into the product and impact its operation.
- For further information, please visit our website([www.qlight.com](http://www.qlight.com)).

## Top Control Configuration



## Sound Setting



- Select different built-in sounds using the sound setting switch.
- Please be conscious of the number selected for your desired sound option.
- Switch 2,3 and 4 : Can select sound group from built-in sounds

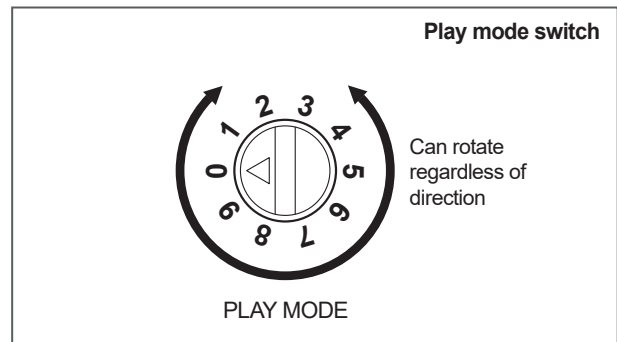
### Select Built-in Voice Group

- This is used when built-in sound mode is selected.
- Select between the six sound groups.
- Every group has 5 type of sounds.

How to select bit type sound group				
	ON(1) OFF(0)	2	3	4
No.		2	3	4
1	0	0	1	5 Warning Sounds
2	0	1	0	5 Special Warning Sounds (1st Group)
3	0	1	1	5 Melodies
4	1	0	0	5 Alarms
5	1	0	1	5 Special Warning Sounds (2nd Group)
6	1	1	0	5 Special Warning Sounds (3rd Group)

## Play Mode Setting

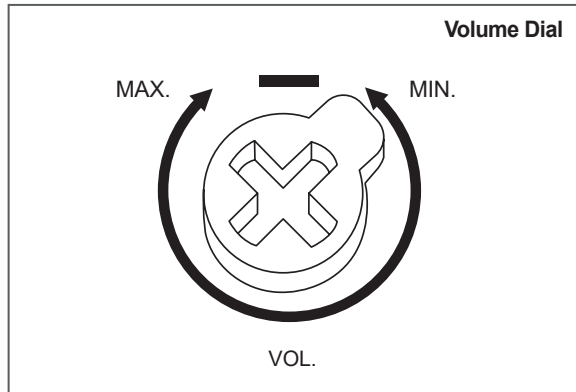
- Can select between channel input methods (bit/ binary) and various playback modes.
- Use a (-) flat screwdriver to rotate one space at a time (regardless of the direction of rotation.)
- Switch 0 and 9 have no function.



PLAY MODE		
1	Bit Input Mode	<ul style="list-style-type: none"> <li>• Play back one of the 5 built-in or external sounds once</li> <li>• For a built-in sound, the playback time is about 10 seconds</li> </ul>
2	Binary Input Mode	<ul style="list-style-type: none"> <li>• Play back one of the 30 built-in or external sounds once</li> <li>• For a built-in sound, the playback time is about 10 seconds</li> </ul>
3	Bit Input Hold Playback Mode	<ul style="list-style-type: none"> <li>• Play back one of the 5 built-in or external sounds continuously</li> </ul>
4	Binary Input Hold Playback Mode	<ul style="list-style-type: none"> <li>• Play back one of the 30 built-in or external sounds continuously</li> </ul>
5	Bit Input Sound Reduction Mode	<ul style="list-style-type: none"> <li>• Decrease the volume of the selected channel by 15dB</li> <li>• Play back one of the 5 built-in or external sounds continuously</li> </ul>
6	Binary Input Sound Reduction Mode	<ul style="list-style-type: none"> <li>• Decrease the volume of the selected channel by 15dB</li> <li>• Play back one of the 30 built-in or external sounds continuously</li> </ul>
7	Bit Input Sequence Memory Playback Mode	<ul style="list-style-type: none"> <li>• When other channel signals are continuously inputted within 3 seconds after inputting the channel, the input order is memorized and playback in the memorized order (playback time is 3 - 5 seconds)</li> <li>• The last input channel is played continuously (Bit input only)</li> </ul>
8	Test Mode	<ul style="list-style-type: none"> <li>• In the test mode, the Ch1 of the built-in sound or the external sound is automatically played continuously</li> <li>• Switch back to another mode to exit test mode</li> </ul>

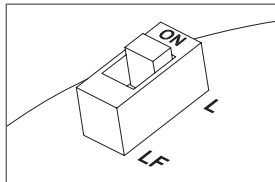
## Volume Adjustment

- The volume output of this product is adjustable.
- Turn the volume dial clockwise to increase the volume, and turn counter clockwise to decrease the volume.
- There will be no sound when the dial is put at MIN.

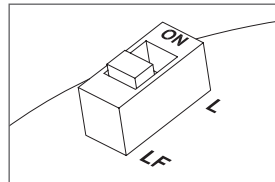


## Light Function Selection

- Please refer to the chart below to use light function selection switch located inside the product.



► L : Steady



► LF : Flashing

- Default function is set at steady LED. Select the desired function for your application during installation.

## Sound Type and Combination Manual

### ■ Bit Input - Playing Built-in Sound

- In bit input mode, you can choose one sound from 30 sounds by configuring the 5 channels.
- For sound configurations, refer to the table below.

Bit input method sound configuration						
No.	Ch1	Ch2	Ch3	Ch4	Ch5	Type of sound (WS group as an example)
	ON(1) OFF(0)	ON(1) OFF(0)	ON(1) OFF(0)	ON(1) OFF(0)	ON(1) OFF(0)	
0	0	0	0	0	0	No sound
1	1	0	0	0	0	Fire.A-ANG(560Hz-1.5kHz)
2	0	1	0	0	0	Emergency WA-U (600Hz-1.5kHz)
3	0	0	1	0	0	Ambulance PI-PO (450Hz-900Hz)
4	0	0	0	1	0	Machinery Fault(820Hz)
5	0	0	0	0	1	High Expansion(1kHz)

※ Please be noted that the configuration chart above is explaining how to wire terminal blocks. The actual product does not have a switch.

### ■ Sound Type by Group

Bit input method sound configuration			
Group	Channel	Type of sound	
WS	5 Warning Sounds	Ch1	Fire.A-ANG (560Hz-1.5kHz)
		Ch2	Emergency WA-U (600Hz-1.5kHz)
		Ch3	Ambulance PI-PO (450Hz-900Hz)
		Ch4	Machinery Fault (820Hz)
		Ch5	High Expansion (1kHz)
WP	5 Special Warning Sounds (1 <sup>st</sup> Group)	Ch1	Fire.A-ANG (560Hz-1.5kHz)
		Ch2	Abandon Alarm (820Hz)
		Ch3	Machinery Fault (820Hz)
		Ch4	High Expansion (1kHz)
		Ch5	7 Short Pl. / 1 Long (1kHz)
WM	5 Melodies	Ch1	Sweet Home
		Ch2	For Elise
		Ch3	Cuckoo's Waltz
		Ch4	Piano Sonata
		Ch5	Turkish March
WA	5 Alarms	Ch1	Beep Intermittent
		Ch2	Door Chime
		Ch3	Phone Ring
		Ch4	PI.PI.PI Short
		Ch5	Tripping Beat
WO	5 Special Warning Sounds (2 <sup>nd</sup> Group)	Ch1	Rel rel rel (730Hz-920Hz)
		Ch2	Slow Ambulance PI-PO (820Hz-1.05kHz)
		Ch3	Wye yong Wye yong (770Hz-1.2kHz)
		Ch4	Phone ring 2 (740Hz-910Hz)
		Ch5	Fire.A-ANG (770Hz-1.11kHz)
WN	5 Special Warning Sounds (3 <sup>rd</sup> Group)	Ch1	Oit Oit (500Hz-1.11kHz)
		Ch2	Pi o Pi o (940Hz-2.19kHz)
		Ch3	Slow Di o Di o (680Hz-840Hz)
		Ch4	Li long Li ling (420Hz-470Hz)
		Ch5	911 Siren (150Hz-1kHz)

## ■ Binary Input - Playing Built-in Sound

- In binary input mode, you can choose one sound from 30 sounds by configuring the 5 channels.
- For sound configurations, refer to the table below.
- Please be aware that the configuration for sound using the binary input method is different from the bit input method.

Binary input method sound configuration						Type of sound
No.	Ch1 ON(1) OFF(0)	Ch2 ON(1) OFF(0)	Ch3 ON(1) OFF(0)	Ch4 ON(1) OFF(0)	Ch5 ON(1) OFF(0)	
0	0	0	0	0	0	No sound
1	0	0	0	0	1	Fire.A-ANG (560Hz-1.5kHz)
2	0	0	0	1	0	Emergency WA-U (600Hz-1.5kHz)
3	0	0	0	1	1	Ambulance PI-PO (450Hz-900Hz)
4	0	0	1	0	0	Pi-ik Pi-ik (800Hz)
5	0	0	1	0	1	Machinery Fault (820Hz)
6	0	0	1	1	0	High Expansion (1kHz)
7	0	0	1	1	1	Alarm (1kHz)
8	0	1	0	0	0	Sweet Home
9	0	1	0	0	1	For Elise
10	0	1	0	1	0	Cuckoo's Waltz
11	0	1	0	1	1	Piano Sonata
12	0	1	1	0	0	Turkish March
13	0	1	1	0	1	Magic Flute
14	0	1	1	1	0	Badinerie
15	0	1	1	1	1	Pineapple Rag
16	1	0	0	0	0	Beep Intermittent
17	1	0	0	0	1	Door Chime
18	1	0	0	1	0	Phone Ring
19	1	0	0	1	1	PI.PI.PI Short
20	1	0	1	0	0	Tripping Beat
21	1	0	1	0	1	Rel rel rel (730Hz-920Hz)
22	1	0	1	1	0	Slow Ambulance PI-PO (820Hz-1.05kHz)
23	1	0	1	1	1	Wye yong Wye yong (770Hz-1.2kHz)
24	1	1	0	0	0	Phone ring 2 (740Hz-910Hz)
25	1	1	0	0	1	Fire.A-ANG (770Hz-1.11kHz)
26	1	1	0	1	0	Oit Oit (500Hz-1.11kHz)
27	1	1	0	1	1	Pi o Pi o (940Hz-2.19kHz)
28	1	1	1	0	0	Slow Di o Di o (680Hz-840Hz)
29	1	1	1	0	1	Li long Li ling (420Hz-470Hz)
30	1	1	1	1	0	911 Siren (150Hz-1kHz)

※ Please be noted that the configuration chart above is explaining how to wire terminal blocks. The actual product does not have a switch.

## Operation Method and Setting

When using a built-in sound	
Bit input	Binary input
Organized into 6 groups of 5 sound tones for a total of 30 sound tone options. Play one of the five sounds in each 5 group	Play one of 30 built-in sounds

### ■ When Using a Built-in Sound in Bit Input Mode

※ Sound switch setting → Play mode switch setting → Channel selection

1. Set the No. 1 switch of the Sound setting switch to OFF to select built-in sound.
  - For more information, see page 4 'Sound Settings'.
2. Use one of the sound setting switches 2, 3 and 4 to select one of the 6 groups.
  - For more information, see page 4 'Sound Settings'.
3. Use the play mode setting switch to select one of the modes between 1, 3, 5, 7, or 8.
  - Mode 8 is a test mode which continuously plays channel 1. (In this case, channel selection is disabled.)
  - For more information, refer to page 4 'Play Mode Setting'.
4. Use the sound select switch to select one of the five built-in sounds.
  - For more information, please refer to page 5 'Bit Input - Playing Built-in Sound'.
  - For external signal line type (LC) products, please refer to page 2 'Bit/ Binary Input Method Depending on Wiring Method'.

### ■ When Using a Built-in Sound in Binary Input Mode

※ Sound switch setting → Play mode switch setting → Channel selection

1. Set the No. 1 switch of the sound setting switch to OFF to select the built-in sound.
  - For more information, see page 4 'Sound Settings'.
2. Use the play mode setting switch to select one of the modes between 2, 4, 6, or 8.
  - Mode 8 is a test mode which continuously plays channel 1. (In this case, channel selection is disabled.)
  - For more information, refer to page 4 'Play Mode Setting'.
3. Use the sound select switch to select one of the 30 built-in sounds.
  - For more information, please refer to page 6 'Binary Input - Playing Built-in Sound'.
  - For external signal line type (LC) products, please refer to page 2 'Bit/ Binary Input Method Depending on Wiring Method'.

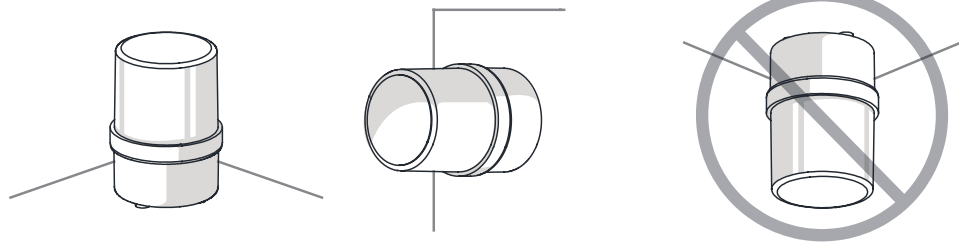
## Product installation direction

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

### · BEACON/SIGNALING LIGHT

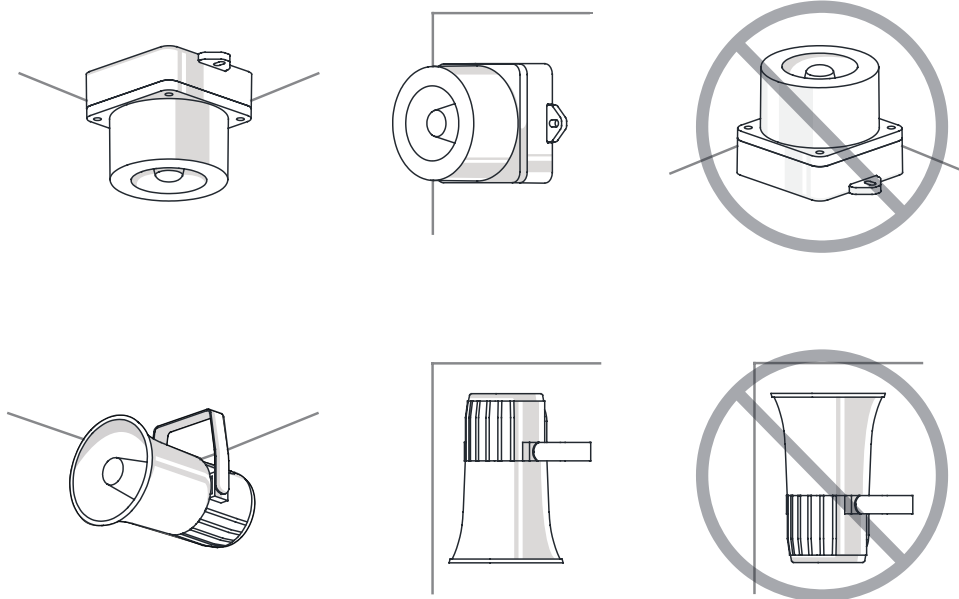
※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.



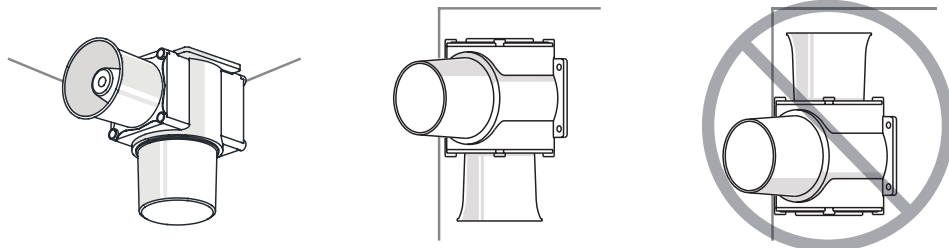
### · ELECTRONIC SOUNDER/SIGNAL HORN

Sounder part shall not be facing the sky.



### · HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

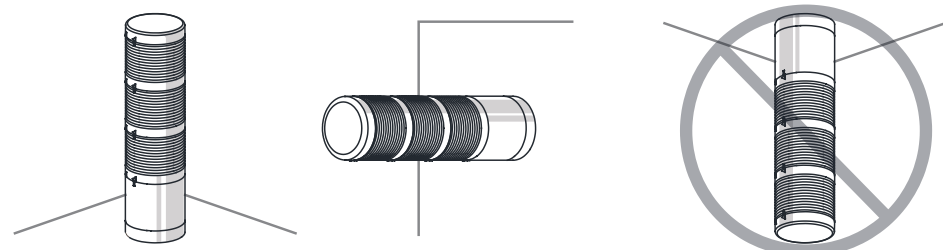
Sounder part shall not be facing the sky.



### · 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

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You can expect prompt service if you have exact information such as model name, symptom, telephone number and address.

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