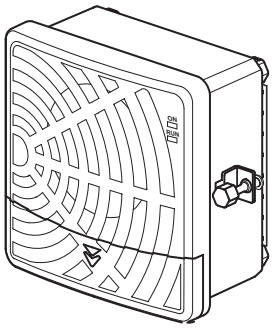
Panel Mount Audible Alarm

QMPS-N



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, and 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

QMPS-N	-	12/24
[Model number]		[Voltage]
• QMPS-N		• 12/24-DC12V-24V • 110/220-AC110V-220V

Product Specifications

Model number	Voltage	Current	Sound Volume (dB)	Input Method/ No.of ch	Certificate	Weight
QMPS-N Built-in standard sound	DC12V-24V	Max. 0.365A	Built-in sound : Max.98dB (Based on WS-Ch17)	Bit input : 5ch Binary input : 30ch	CE	0.35kg
	AC110V-220V	Max. 0.110A				0.53kg

※DC type model has a free-voltage range of DC10V-30V.
※AC type model has a free-voltage range of AC100V-240V.
※CE Compliant : DC12V/24V

- **Protection rating :** IP54
- **Ambient operating temperature :** -25°C to +50°C

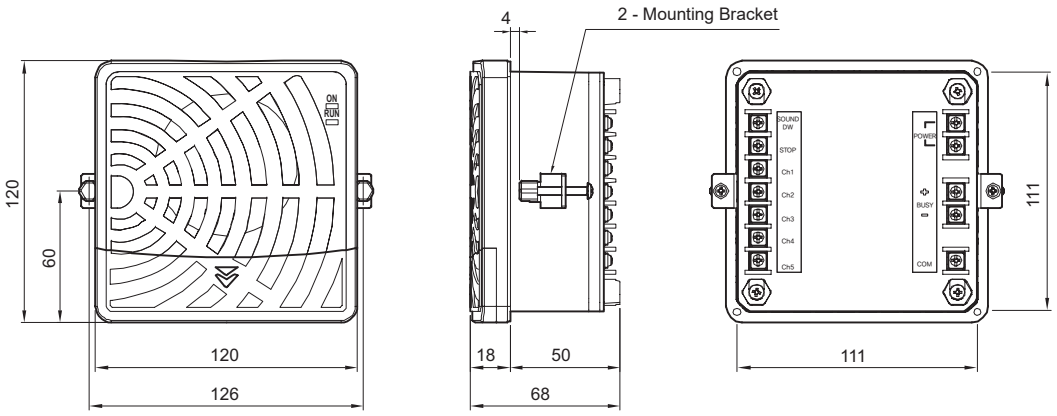
Please scan the QR code for more detailed product information.

www.qlight.com

Dimensions

(Units : mm)

QMPS-N

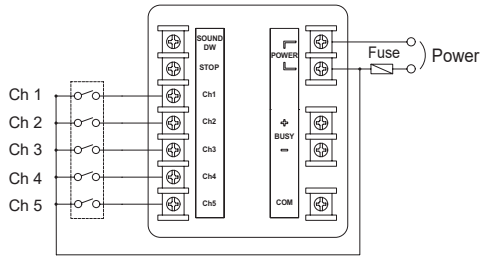


Wiring Instructions

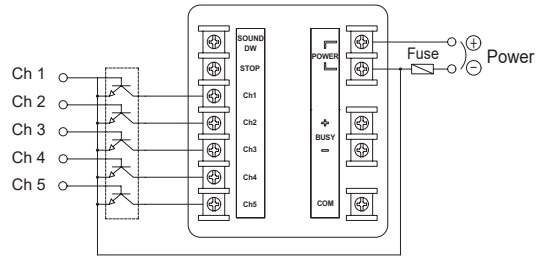
• When wiring the product with an external transistor, both NPN and PNP type transistors can be used.

QMPS-N-DC

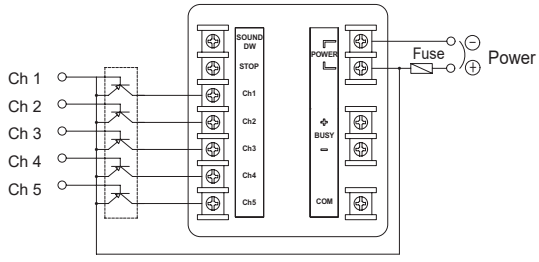
EXTERNAL CONTACT



EXTERNAL TRASISTOR-NPN

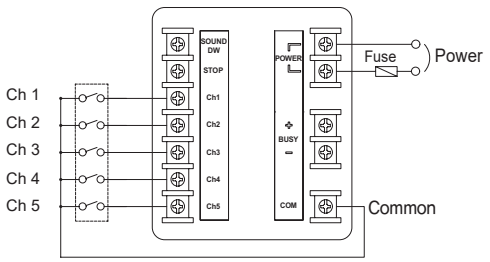


EXTERNAL TRASISTOR-PNP

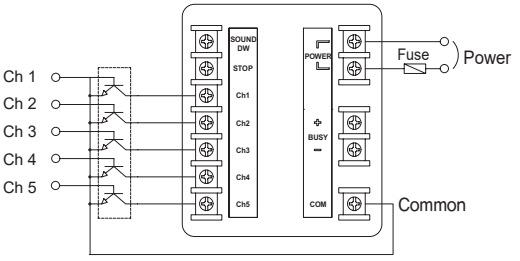


QMPS-N-AC

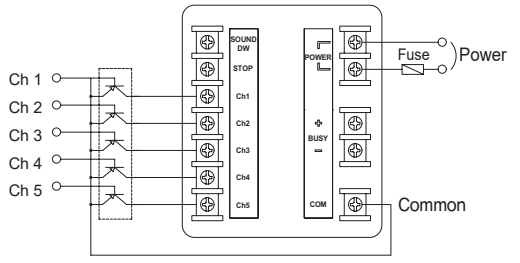
EXTERNAL CONTACT



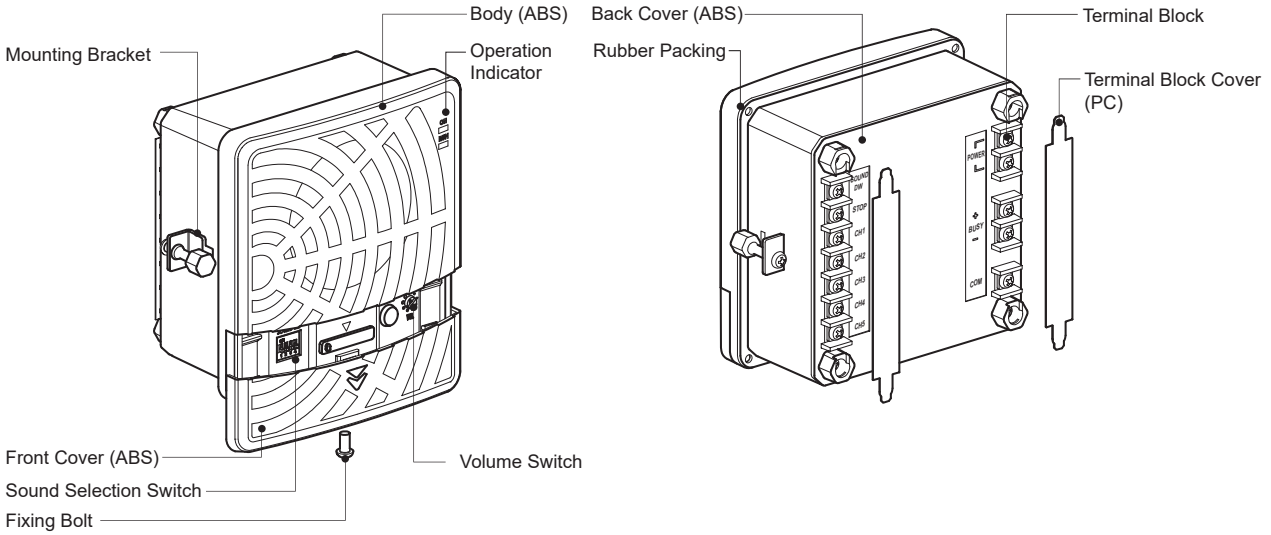
EXTERNAL TRASISTOR-NPN



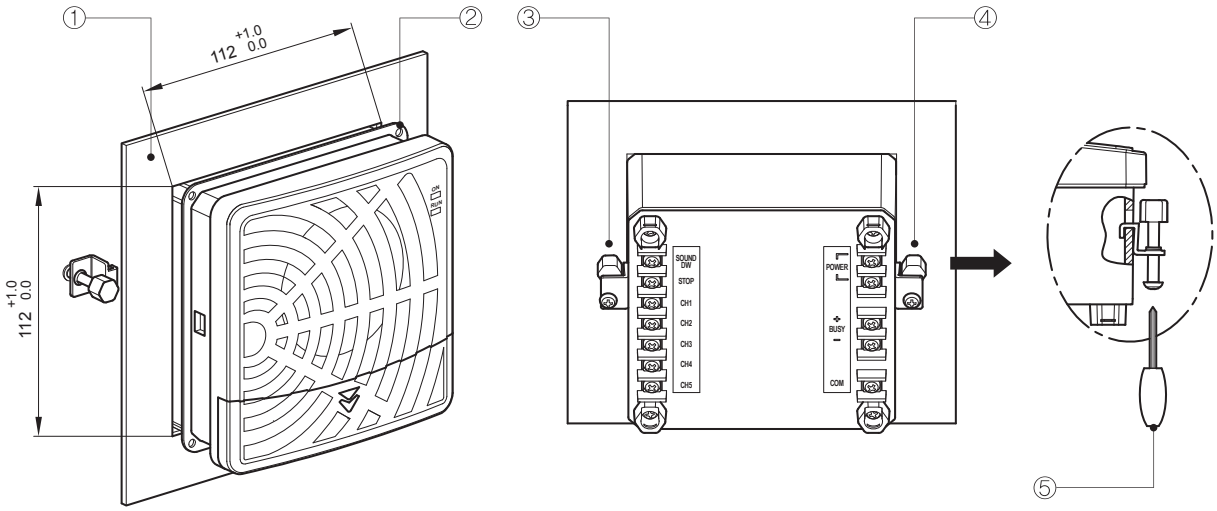
EXTERNAL TRASISTOR-PNP



Parts Definition



Installation

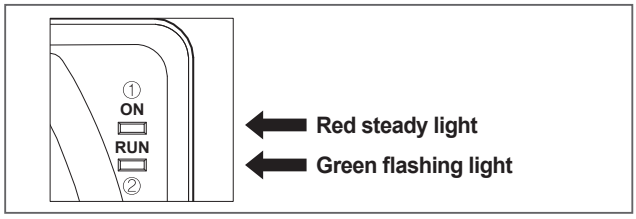


- First, cut a square hole (see the above dimensions) on the panel ① to mount the product.
- Insert the rubber packing ② and the product into the square hole of the panel.
- Place the mounting bracket (2EA) ③ and ④ (provided with the product) on the sides of the body and tighten it with a screwdriver ⑤ please ensure the screws are securely tightened.
- Max. thickness allowed for mounting panel is 10mm.

Installation Environment and Protection Rating

- This product is designed for use with protection rating of IP54.
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP54), it may cause malfunction or damage to the product.
- For further information, please visit our website(www.qlight.com).

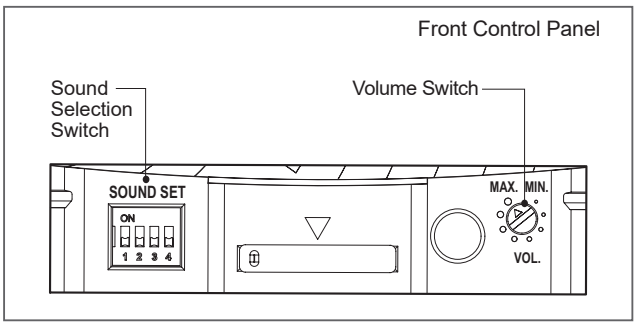
Operation Indicator



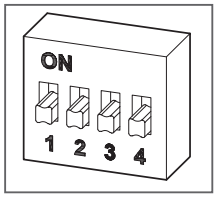
① The red indicator light is on when voltage is supplied to the power terminal.

② The green indicator light is on when the product is operating normally.

Front Control Configuration



Sound Setting



- Built-in sounds can be selected by using a switch either bit or binary sounds.
- Please be conscious of the number selected for your desired sound option.

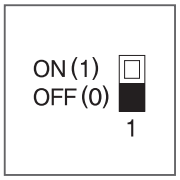
- Switch No. 1 : Select Bit or Binary
- Switch No. 2,3,4 : Select Built-in sound group

■ Select built-in Bit sound group

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

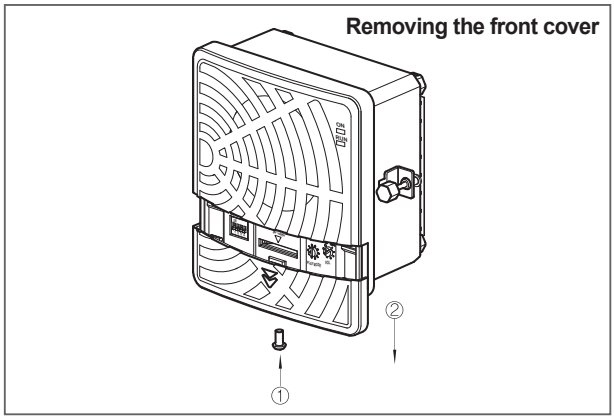
How to select bit type sound group				
ON(1) OFF(0)	2	3	4	Sounds
No.	2	3	4	
1	0	0	1	5 Warning Sounds
2	0	1	0	5 Special Warning Sounds (1st Group)
3	0	1	1	5 Melodies
4	1	0	0	5 Alarms
5	1	0	1	5 Special Warning Sounds (2nd Group)
6	1	1	0	5 Special Warning Sounds (3rd Group)

■ Select built-in Bit sound group or Binary sound group



- In bit input mode, Please set switch no.1 to off(0).
- In binary input mode, Please set switch no.1 to ON(1).

Removing the Front Cover

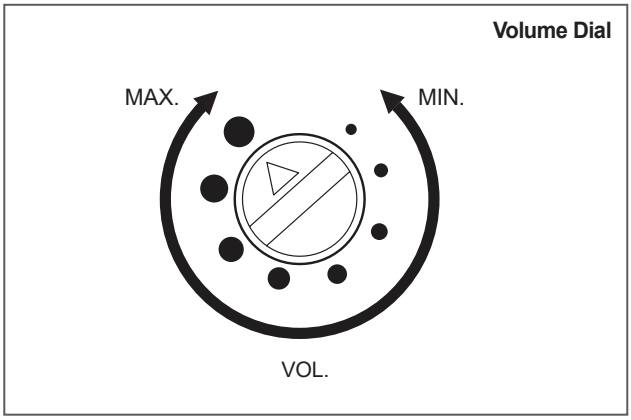


① Loosen the cover fixing bolt (M3) fastened at the bottom of the product.

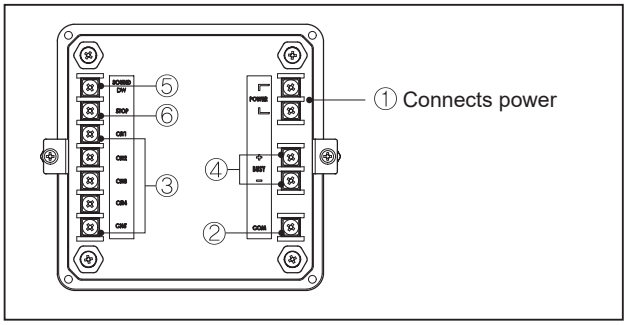
② Gently press down the front cover and pull it down. (be careful that the cover may fall off if you apply excessive force.)

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.



Rear Terminal Block Configuration



① Terminal for power input.

② COM terminal for channel selection. Refer to Page2 for connection method information.

③ Sound channel selection terminal. You can select the sound by using external contact or transistor.

No. ④, ⑤, and ⑥ options are not be used.

Bit/ Binary input method using rear terminal block

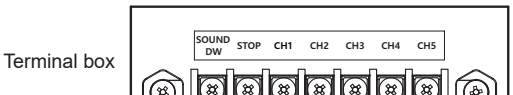
■ Bit Input Mode

- 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.

■ Wiring through terminal block with either external contact or NPN transistor allows either bit or binary input method for sound channel selection.



EXTERNAL CONTACT

COM

※ Please note that the switches shown on the table is to explain how to wire the terminal block. Actual products do not have switches attached.

ON(1) OFF(0)	CH1	CH2	CH3	CH4	CH5
No.	1	2	3	4	5
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

Bit input mode
Can select up to 5 sound options

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

Binary input mode
Can select up to 30 sound options

Sound Type and Combination Manual

■ Bit Input - Playing Built-in Sound

- In bit input mode, you can chooses one sound from 5 sounds by configuring the 1 channels.
- This product has a terminal block to select a sound source. For further details, refer to page 5 **'Bit/ Binary Input Method using Rear Terminal Block'** section of this manual.
- For sound configurations, refer to the table below.

Bit input method sound configuration						
ON(1) OFF(0)	Ch1	Ch2	Ch3	Ch4	Ch5	Type of sound (WS group as an example)
No.	1	2	3	4	5	
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 (1st Group)	Ch1	Fire.A-ANG (560Hz-1.5kHz)
		Ch2	Abandon Alarm (820Hz)
		Ch3	Machinery Fault (820Hz)
		Ch4	High Expansion (1kHz)
		Ch5	7 Short PI. / 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 (2nd 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 (3rd 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 chooses one sound from 30 sounds by configuring the 1 channels.
- This product has a terminal block to select a sound source. For further details, refer to page 5 **'Bit/ Binary Input Method using Rear Terminal Block'** section of this manual.
- 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						
ON(1) OFF(0)	Ch1	Ch2	Ch3	Ch4	Ch5	Type of sound
No.	1	2	3	4	5	
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 Source	
Bit input	Binary input
Play one of five sounds from 6 groups	Play one of 30 sounds

■ When using a built-in sound source in bit input mode

※ Sound switch setting → Channel selection

1. Please set switch no. 1 to off.
   - For more information, see page 4 **'Sound Selection'** section.
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 Selection'** section.
3. Use the terminal block on the back to select one of the five built-in sounds.
   - For more information, please refer to page 6 **'Sound Type and Combination for Built-in Sound' - 'Bit Input'** section.

■ When using a built-in sound source in binary input mode

※ Sound switch setting → Channel selection

1. Please set switch no. 1 to ON.
   - For more information, see page 4 **'Sound'** section.
2. Use the terminal block on the back to select one of the 30 built-in sounds.
   - For details, please refer to page 6 **'Sound Type and Combination for Built-in Sound' - 'Binary input'** section.

⚠ 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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