Wall Mount LED Signal Tower with Built-in Audible Alarm
QWTD

IP54 | -30~+50℃ | SPK | 85dB | NPN | RoHS2
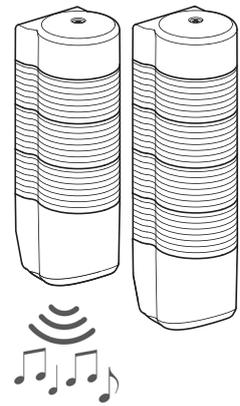
Thank you for purchasing Qlight's products. Please read this user manual carefully prior to installation and operation to ensure safe and correct use.

⚠ 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

QWTDL	-	WS	-	3	-	110/220	-	RAG
[Model number]		[Sound]		[Layer]		[Voltage]		[Color]

[Model number]	[Sound]	[Layer]	[Voltage]	[Color]
• QWTDL	• WS-Warning sound	• 1-1Layer	• 12-DC12V	R-Red
• QWTDLF	• WP-Special warning sound	• 2-2Layers	• 24-DC24V	A-Amber
	• WM-Melody	• 3-3Layers	• 110/220-AC110V-220V	G-Green
	• WA-Alarm	• 4-4Layers		B-Blue
		• 5-5Layers		W-White

Please scan the QR code for more detailed product information.

www.qlight.com

Product Specifications

Model number	Layer	Voltage	Current	Certificate	Weight	Color
QWTDL Steady type QWTDLF Steady/ Flashing type	1	AC/DC12V	0.065A	CE	0.14kg	R-Red
		AC/DC24V	0.050A		0.14kg	
		AC110V-220V	Max. 0.025A		0.27kg	
	2	AC/DC12V	0.130A		0.18kg	R-Red G-Green
		AC/DC24V	0.050A		0.18kg	
		AC110V-220V	Max. 0.050A		0.32kg	
	3	AC/DC12V	0.195A		0.23kg	R-Red A-Amber G-Green
		AC/DC24V	0.150A		0.23kg	
		AC110V-220V	Max. 0.075A		0.36kg	
	4	AC/DC12V	0.260A		0.27kg	R-Red A-Amber G-Green B-Blue
		AC/DC24V	0.200A		0.27kg	
		AC110V-220V	Max. 0.100A		0.41kg	
	5	AC/DC12V	0.325A		0.32kg	R-Red A-Amber G-Green B-Blue W-White
		AC/DC24V	0.250A		0.32kg	
		AC110V-220V	Max. 0.125A		0.45kg	

QWTD-WS 5 Warning Sounds
QWTD-WP 5 Special Warning Sounds
QWTD-WM 5 Melodies
QWTD-WA 5 Alarms

※AC type model has a free-voltage range of AC100V-240V.

Current specifications

Voltage condition	AC/DC12V	AC/DC24V	AC110-220V
Light (Per layer)	0.040A	0.040A	Max 0.024A
Sound	0.300A	0.160A	Max 0.031A

Type	Built-in sound	Channel	Type of sound
WS	5 Warning Sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG(560Hz-1.5kHz) Emergency WA-U(600Hz-1.5kHz) Ambulance PI-PO(450Hz-900Hz) Machinery Fault(820Hz) High Expansion(1kHz)
WP	5 Special Warning Sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG(560Hz-1.5kHz) Abandon Alarm(820Hz) Machinery Fault(820Hz) High Expansion(1kHz) 7 Short Pl. / 1 Long(1kHz)
WM	5 Melodies	Ch1 Ch2 Ch3 Ch4 Ch5	Sweet Home For Elise Cuckoo's Waltz Piano Sonata Turkish March
WA	5 Alarms	Ch1 Ch2 Ch3 Ch4 Ch5	Beep Intermittent Door Chime Phone Ring PI.PI.PI Short Tripping Beat

※ CE compliant : DC12V/24V

• **Protection rating : IP54**
• **Ambient operating temperature : -30°C to +50°C**

Dimensions

(Unit : mm)

QWTD

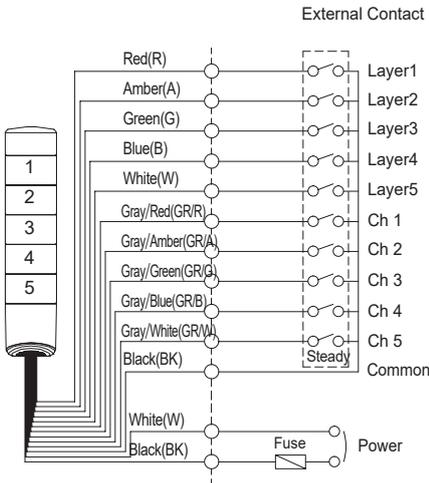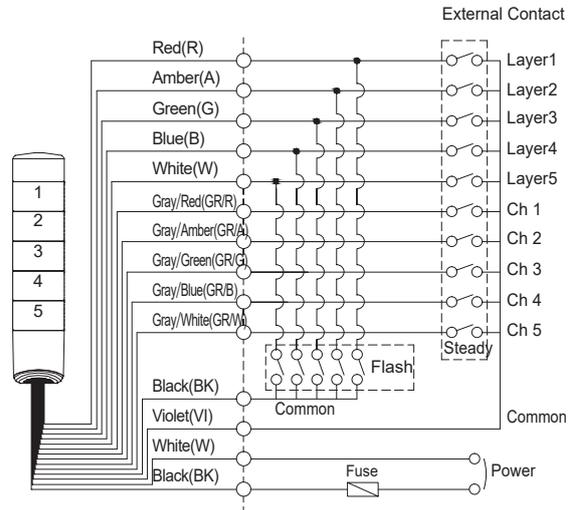| LAYER	L
1	154
2	195
3	236
4	277
5	318
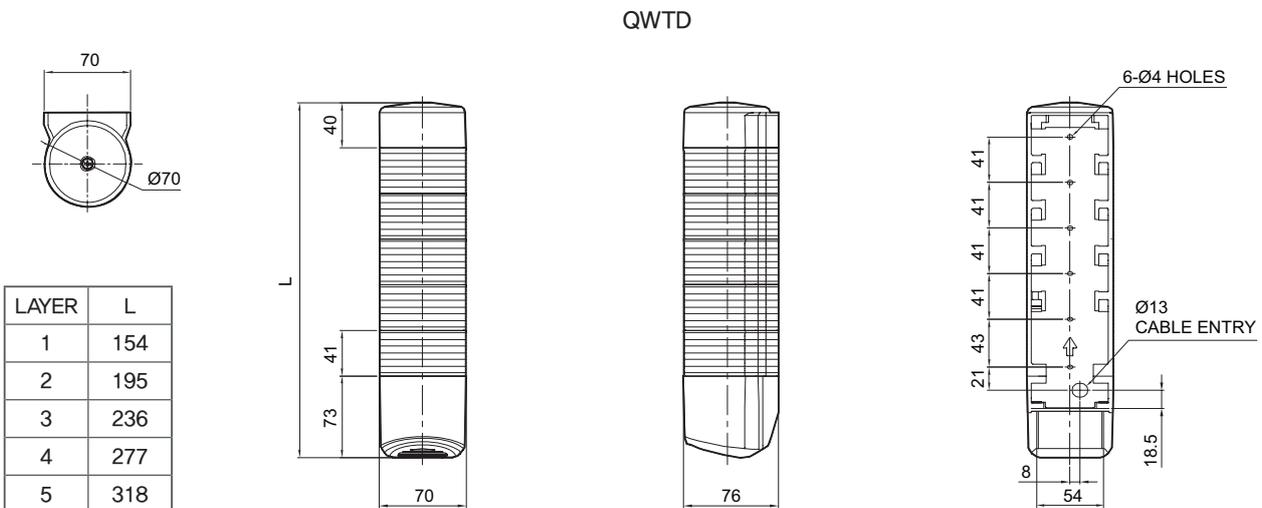
Wiring Instructions

- QWTD series can be wired with either external contact or transistor.
- For QWTDLF model, user can choose light function between steady and flashing mode through wiring configuration.
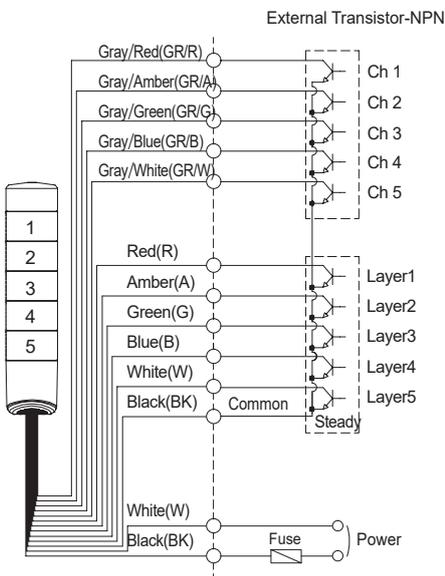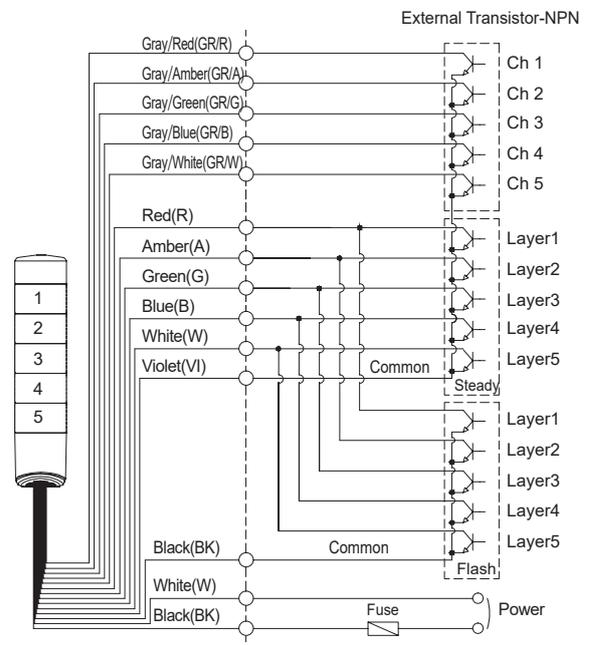
QWTDL-DC/AC(Steady Type)

QWTDLF-DC/AC(Steady/Flashing Type)

QWTDL-DC/AC(Steady Type)

QWTDLF-DC/AC(Steady/Flashing Type)

- 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.

Sound Selection

■ Guide for WS/WP sound type models

WS and WP type products are factory set to its specific sound.
The sounds can be configured by using the following table.

	Ch1	Ch2	Ch3	By using the sound selection switch shown below, products that contains 7 warning sounds can be combined into 8 combination.				
ON(1) OFF(0)	☐ ■	☐ ■	☐ ■					
No.	1	2	3	Ch1	Ch2	Ch3	Ch4	Ch5
1	1	0	0	SND01 Fire.A-ANG	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND05 Machinery Fault	SND06 High Expansion
2	0	1	0	SND01 Fire.A-ANG	SND04 Abandon Alarm	SND05 Machinery Fault	SND06 High Expansion	SND07 7 Short PI. / 1 Long
3	1	1	0	SND01 Fire.A-ANG	SND02 Emergency WA-U	SND04 Abandon Alarm	SND05 Machinery Fault	SND06 High Expansion
4	0	0	1	SND01 Fire.A-ANG	SND03 Ambulance PI-PO	SND05 Machinery Fault	SND06 High Expansion	SND07 7 Short PI. / 1 Long
5	1	0	1	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND05 Machinery Fault	SND06 High Expansion
6	0	1	1	SND01 Fire.A-ANG	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND07 7 Short PI. / 1 Long
7	1	1	1	SND01 Fire.A-ANG	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND06 High Expansion	SND07 7 Short PI. / 1 Long
8	0	0	0	SND02 Emergency WA-U	SND03 Ambulance PI-PO	SND04 Abandon Alarm	SND05 Machinery Fault	SND07 7 Short PI. / 1 Long

■ Guide for WM/WA sound type models

WM and WA type products are factory set to its specific sound.
The sounds can be configured by using the following table.

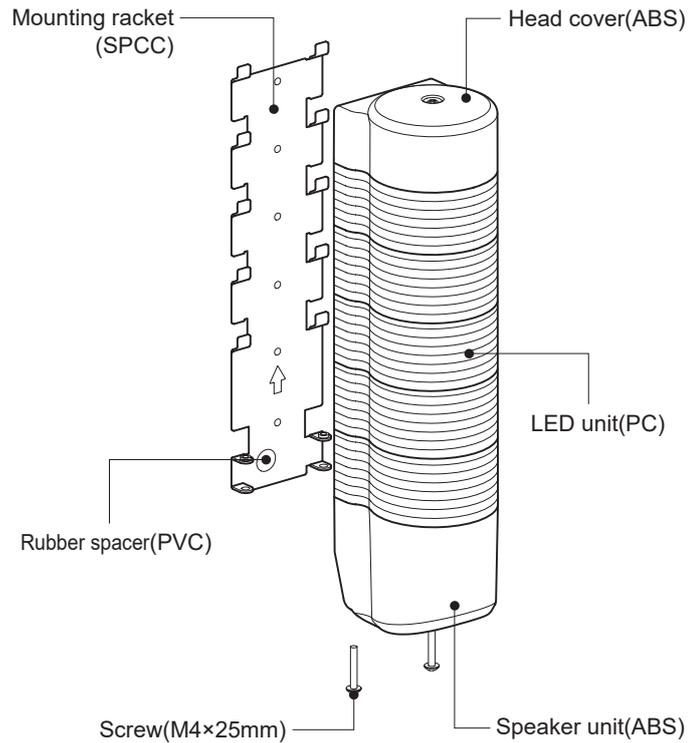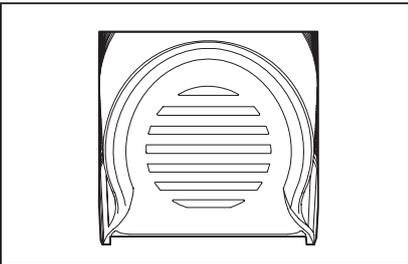|	Ch1	Ch2	Ch3	By using the sound selection switch shown below, products that contains 13 melody and alarm sounds can be combined into 8 combination.				
ON(1) OFF(0)	☐ ■	☐ ■	☐ ■					
No.	1	2	3	Ch1	Ch2	Ch3	Ch4	Ch5
1	1	0	0	SND08 Sweet Home	SND09 For Elise	SND10 Cuckoo's Waltz	SND11 Piano Sonata	SND12 Turkish March
2	0	1	0	SND16 Beep Intermittent	SND17 Door Chime	SND18 Phone Ring	SND19 PI.PI.PI Short	SND20 Tripping Beat
3	1	1	0	SND08 Sweet Home	SND11 Piano Sonata	SND13 Magic Flute	SND17 Door Chime	SND19 PI.PI.PI Short
4	0	0	1	SND13 Magic Flute	SND14 Badinerie	SND15 Pine Apple Rag	SND08 Sweet Home	SND09 For Elise
5	1	0	1	SND10 Cuckoo's Waltz	SND11 Piano Sonata	SND17 Door Chime	SND18 Phone Ring	SND20 Tripping Beat
6	0	1	1	SND08 Sweet Home	SND12 Turkish March	SND16 Beep Intermittent	SND17 Door Chime	SND18 Phone Ring
7	1	1	1	SND08 Sweet Home	SND11 Piano Sonata	SND12 Turkish March	SND17 Door Chime	SND19 PI.PI.PI Short
8	0	0	0	SND11 Piano Sonata	SND12 Turkish March	SND13 Magic Flute	SND16 Beep Intermittent	SND18 Phone Ring

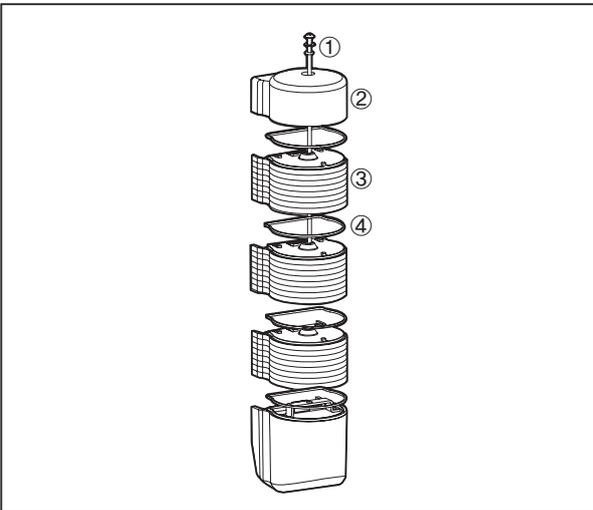## Parts Definition

■ Sound Selection Switch
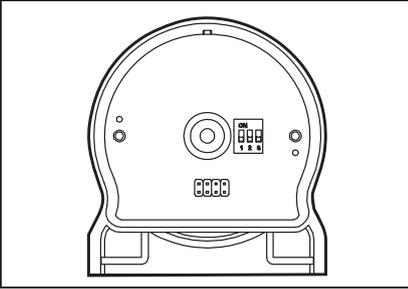
Please refer to page 4 'Sound Selection' section of this manual for detailed instruction.

■ Sound Output Section

Mounting racket (SPCC)

Head cover(ABS)

LED unit(PC)

Rubber spacer(PVC)

Screw(M4×25mm)

Speaker unit(ABS)

Replacing/ Rearranging LED Lens Units

Please ensure the power is off before replacing or rearranging the LED units. Please carefully follow the following instructions.
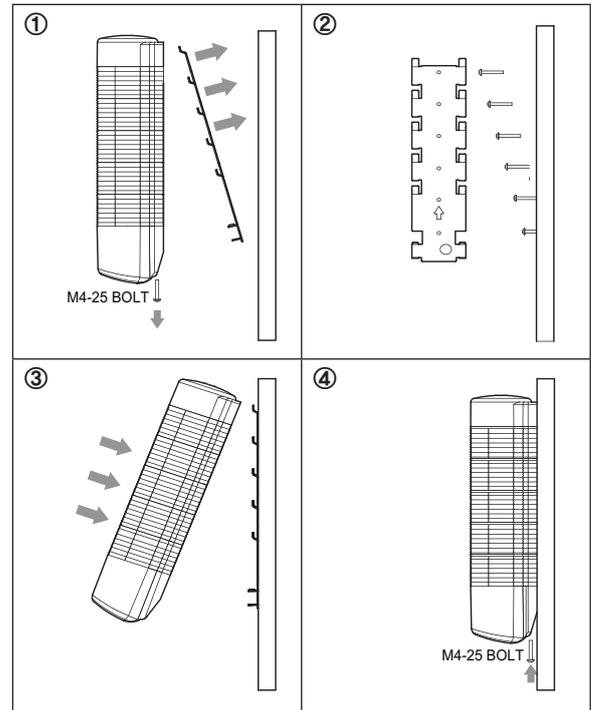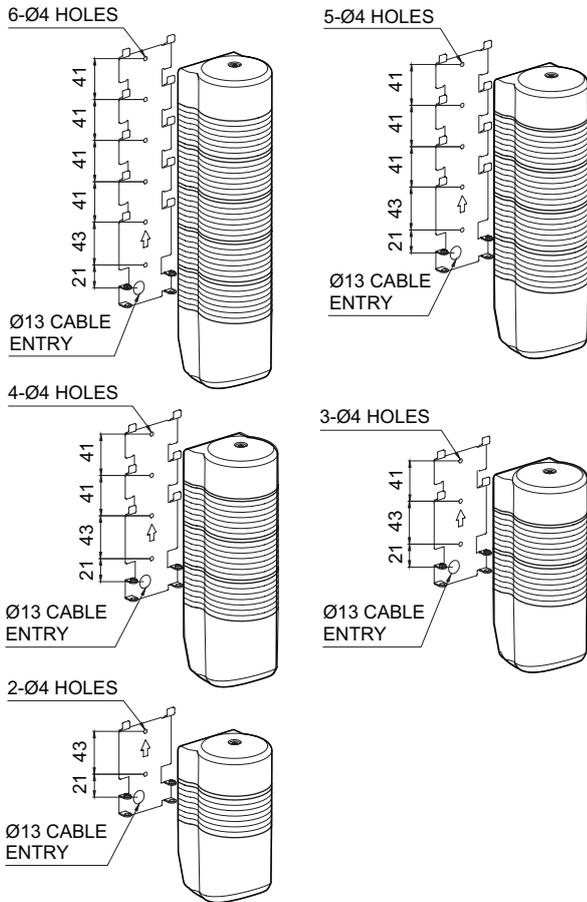
1. Remove the head cover② by loosening the fixing screw①.
2. Remove the LED unit by pulling it③ upward.
3. Replace or rearrange the LED units.
4. Assemble in the reverse order of removing the LED units, Be careful not to let the rubber packing④ fitted on the top of each unit come off.

Installation Environment and Protection Rating

• This product is designed for indoor 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).

Installation

- The user need to install the mounting bracket on to the mounting surface first to fix the product body on to the mounting surface.
- Drill proper mounting holes in accordance with the number of LED lens unit, referring to the installation diagrams below.

6-Ø4 HOLES

41
41
41
41
41
43
21

Ø13 CABLE
ENTRY

5-Ø4 HOLES

41
41
41
43
21

Ø13 CABLE
ENTRY

4-Ø4 HOLES

41
41
43
21

Ø13 CABLE
ENTRY

3-Ø4 HOLES

41
43
21

Ø13 CABLE
ENTRY

2-Ø4 HOLES

43
21

Ø13 CABLE
ENTRY

①

M4-25 BOLT

②

③

④

M4-25 BOLT

① Remove the mounting bracket from the product by removing two M4 screws from the speaker unit.

② Mount the mounting bracket to the mounting surface.

③ Hook the rear of the head cover to the upper bracket, then push the body against the mounting bracket.

④ After tightly attaching the product body to the mounting bracket, tighten the two M4 screws removed in step ① at the bottom of the speaker unit.

Technical Certification

- Qlight products are designed to meet strict quality and technical standards. Thus, the Qlight brand is widely recognized for its high quality and technical innovations from leading institutions around the world.

ISO International Organization for Standardization

Qlight quality assurance systems have been certified by ISO by applying the ISO 9001:2008, KS Q ISO 9001:2009 regulation.

IECEx International Explosion Proof Certification (IECEx)

Certified that Qlight's products are being manufactured and manage according to international standards.

ATEX The European Regulatory Framework or Manufacture, Installation and Use of Equipment in Explosive Atmospheres

Qlight's explosion proof products comply with ATEX Directives 94/9/EC.

NEPSI National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation

Qlight's design and manufacturing system meets the People's Republic of China National explosion proof Standard.
(Chinese Standard-GB3836/GB12476)

KCs Explosion Proof Device Safety Certification System

The safety performance of machines and equipment subject to safety certification and Technical capability and production system have been certified safety certification standards.

TIIS Japan Explosion-proof Certification

TIIS is a Japanes explosion proof test and certification system accordance with the Ministry of Health, Labour and Welfare Notice and the explosion proof guidelines for factory electrical equipment. Qlight's explosion proof products hasve been tested and certified by TIIS.

CCS China Classification Society

Qlight's design and quality assurance system has been certified by the China Classification Society.

RMRS Russian Maritime Register of Shipping

Qlight's design and quality assurance system has been certified from Russian Maritime Register of Shipping.

LR Lloyd's Register

Qlight's design and quality assurance system has been certified from Lloyd's Register.

KR Korean Register of Shipping

Qlight's design and quality assurance system has been certified by the Korean Register of Shipping.

KC Korea Safety Certification

Qlight's products are certified by KC for preventing accident caused by fire.

E-mark Commission Directive Regarding Vehicle Industry

Qlight has obtained EU mark for approved vehicles and vehicle components sold into the EU(EEA : European Economic Area)

ICAO International Civil Aviation Organization

Qlight guarantees our products satisfy the criteria regulated by the International Civil Aviation Organization(ICAO, FAA).

KCC Conformity Assessment of Broadcasting Communication Equipment

Qlight has been certified to protect the electromagnetic environment that causes unwanted electromagnetic waves from the device, communication failure due to other devices or external radio waves, and malfunction of the device.

UL Underwriters Laboratories

Qlight's design and quality assurance system has been certified from UL to ensure the stability of consumption goods and to protect consumers.

CCCF China Certification Center for Security & Protection

Qlight has passed the rigorous examination process of "Passing Fire Protection Products Centering" In order to sell fire-fighting products such as fire alarm equipment to Chinese market.

CCC China Compulsory Certificate

Qlight's has obtained CCC which guarantees safety, protection against fraud, environment, etc.
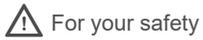
CE European Commission

Qlight has been certified by the European Commission.

RoHS2 Restriction of Hazardous Substances Directive

Qlight c complies with the Restriction of Hazardous Substances Directive by limiting its use of hazardous materials.

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