LED Revolving Warning Light and Electric Horn Combination for Vessels and Heavy Industry Applications
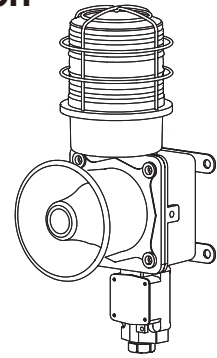
SEDL/ SDL/ SMDL

IP66 | -30~+50℃ | HORN | 118dB | 120dB | 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

SEDL	WA	24	R
[Model number]	[Sound]	[Voltage]	[Color]
• SEDL • SEDLP • SDL • SDLP • SMDL • SMDLP	• WS-Warning sounds • WP-Special warning sounds • WM-Melodies • WA-Alarms • WV-Customizable sounds	• 12 - DC12V • 24 - DC24V • 110 - AC110V • 220 - AC220V	R-Red A-Amber G-Green B-Blue

Please scan the QR code for more detailed product information.
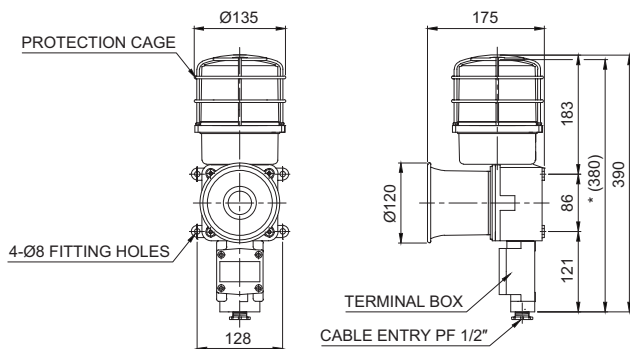
www.qlight.com

Product Specifications

Model number	Voltage	Current	Sound pattern and volume	Certificate	Weight	Color
SEDL SEDLP	DC12V	2.511A	• WS-5 Warning Sounds : Max.118dB • WP-Special warning sounds : Max.118dB • WM-5 Melodies : Max.118dB • WA-5 Alarms : Max.116dB • WV-5 Customizable sounds : Max.113dB	ABS KR CCS	• SEDL : DC-2.96kg, AC-3.38kg • SEDLP : DC-3.21kg, AC-3.63kg	
	DC24V	1.222A				
	AC110V	0.286A				
	AC220V	0.143A				
SDL SDLP	DC12V	2.511A	• WS-5 Warning Sounds : Max.118dB • WP-Special warning sounds : Max.118dB • WM-5 Melodies : Max.118dB • WA-5 Alarms : Max.116dB • WV-5 Customizable sounds : Max.113dB	ABS ⓡ KR	• SDL : DC-3.22kg, AC-3.64kg • SDLP : DC-3.51kg, AC-3.93kg	R-Red A-Amber G-Green B-Blue
	DC24V	1.222A				
	AC110V	0.286A				
	AC220V	0.143A				
SMDL SMDLP	DC12V	2.400A	• WS-5 Warning Sounds : Max.120dB • WP-Special warning sounds : Max.120dB • WM-5 Melodies : Max.120dB • WA-5 Alarms : Max.118dB • WV-5 Customizable sounds : Max.115dB	-	• SMDL : DC-5.77kg, AC-6.19kg • SMDLP : DC-6.06kg, AC-6.48kg	
	DC24V	1.255A				
	AC110V	0.304A				
	AC220V	0.152A				

• **Protection rating : IP66**
• **Ambient operating temperature : -30°C to +50°C**

Dimensions

(Units : mm)

SEDL/ SEDLP

PROTECTION CAGE
Ø135
4-Ø8 FITTING HOLES
128
175
183
Ø120
86
121
*(380)
390
TERMINAL BOX
CABLE ENTRY PF 1/2″

※ *(380) represents SEDL size without protection cage.

SDL/ SDLP

PROTECTION CAGE
Ø158
4-Ø8 FITTING HOLES
128
175
217
Ø120
86
121
*(410)
424
TERMINAL BOX
CABLE ENTRY PF 1/2″
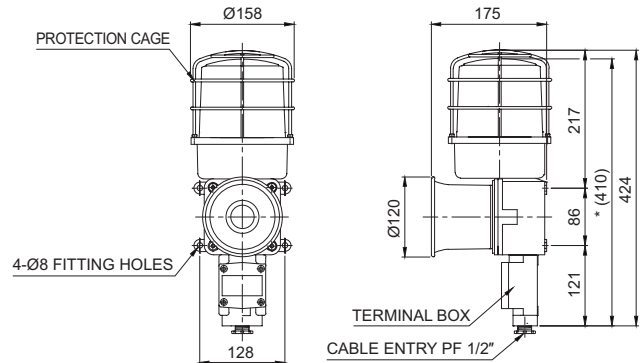
※ *(410) represents SDL size without protection cage.

SMDL/ SMDLP

PROTECTION CAGE
Ø158
4-Ø11 HOLES
183
210
226
Ø172
125
125
*(462)
476
TERMINAL BOX
CABLE ENTRY PF 1/2″
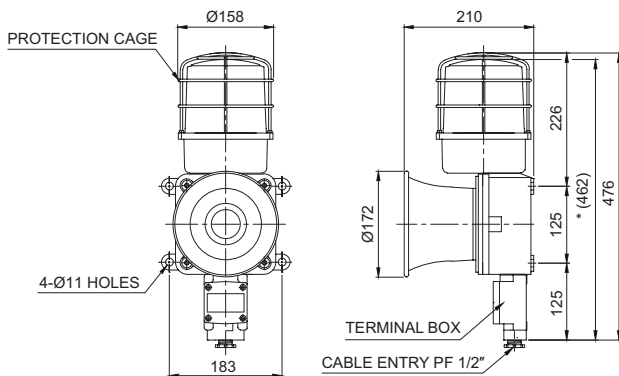
※ *(462) represents SMDL size without protection cage.

Sound Setting - Select using the switch inside of the unit


Ch1-Ch5 — sound setting switch
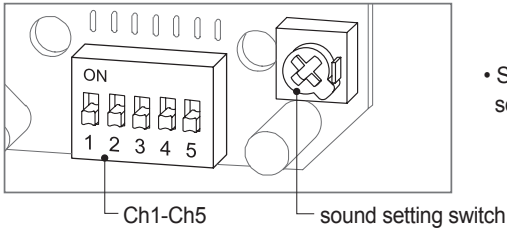
• Standard unit has 5 built-in sound tones. Select different built-in sounds using the sound setting switch.

■ **Sound Type by Group**

| Category	Sound pattern	Channel	Sound tone	volume (Max.)	
				SEDL/ SDL	SMDL
WS	5 Warning sounds	Ch1	Fire.A-ANG	118dB	120dB
		Ch2	Emergency WA-U		
		Ch3	Ambulance PI-PO		
		Ch4	Machinery Fault		
		Ch5	High Expansion		
WP	5 Special Warning sounds	Ch1	Fire.A-ANG	118dB	120dB
		Ch2	Abandon Alarm		
		Ch3	Machinery Fault		
		Ch4	High Expansion		
		Ch5	7 Short PI. / 1 Long		
WM	5 Melodies	Ch1	Sweet Home	118dB	120dB
		Ch2	For Elise		
		Ch3	Cuckoo's Waltz		
		Ch4	Piano Sonata		
		Ch5	Turkish March		
WA	5 Alarms	Ch1	Beep Intermittent	116dB	118dB
		Ch2	Door Chime		
		Ch3	Phone Ring		
		Ch4	PI.PI.PI Short		
		Ch5	Tripping Beat		
WV	5 Customizable sounds	Ch1-Ch5	Available upon request (customized voice type)	113dB	115dB

Wiring Instructions for LC Type

• LC type product with exposed sound selection signal line is avali-able uapon request. Please refer to the diagram below for wiring.

EXTERNAL TRANSISTOR-NPN   EXTERNAL CONTACT
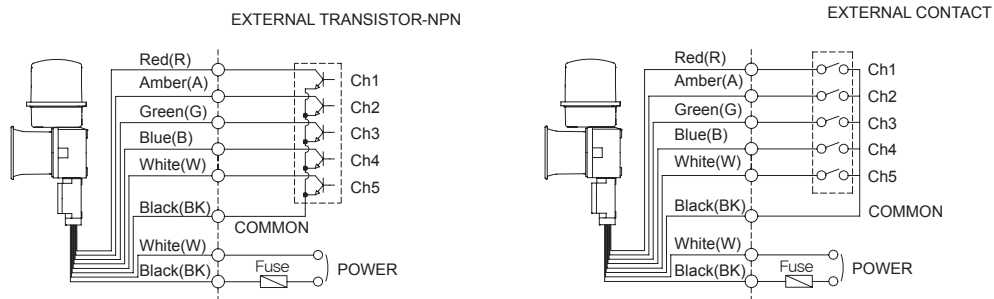
• External power line - UL1015 AWG18(0.75sq) x 2C 400mm
• External signal line - UL1007 AWG22(0.3sq) 400mm
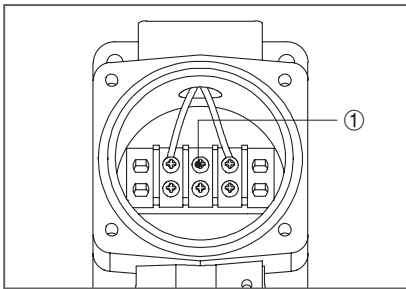• This product can be wired regardless of polarity.

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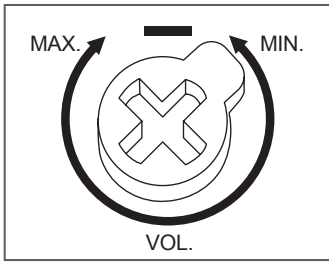
Volume Dial
- The volume output of this product is adjustable.
- Turn the volume dial clockwise to increase the volume, and turn counter clockwise to decrease the volume.
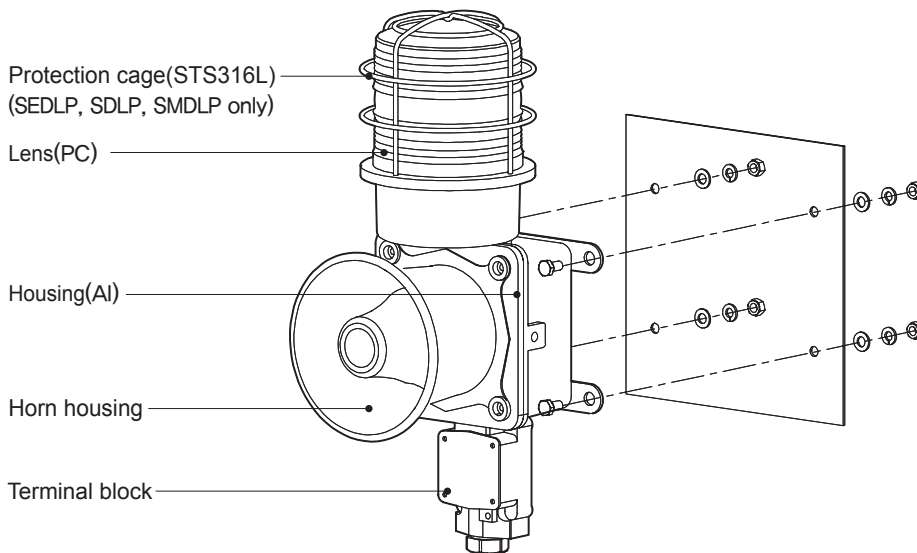- There will be no sound when the dial is put at MIN.

Terminal Box Wiring Instructions

- Terminal block is located inside of the product. Unscrew the 4 bolts located in the upper body to get rid of the upper lighting element of the unit.
- Please apply fork (U-type) or ring (O-type) locking spade terminal at naked tip of the wire for secure connection.
- Please wire the power line to terminal ①
- For AC type products, wire regardless of polarity.
- For DC type products, wire terminal of black line to (-) polarity.

Parts Definition/ Installation

■ **Parts Definition**

Protection cage(STS316L)
(SEDLP, SDLP, SMDLP only)

Lens(PC)

Housing(Al)

Horn housing

Terminal block

■ **Installation**

- First, machine taps or holes on the mounting surface.
- The mounting hole of this product is 8mm(SEDL/ SEDLP/ SDL/ SDLP only), 11mm(SMDL/ SMDLP only)mm 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.

4

Mounting Hole Specifications

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

128

4-Ø9 HOLES

86

SEDL/ SEDLP /SDL/ SDLP

183

4-Ø11 HOLES

125
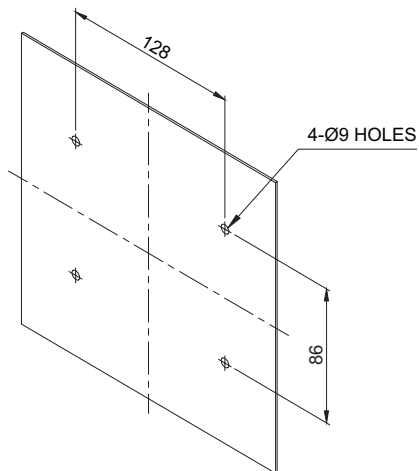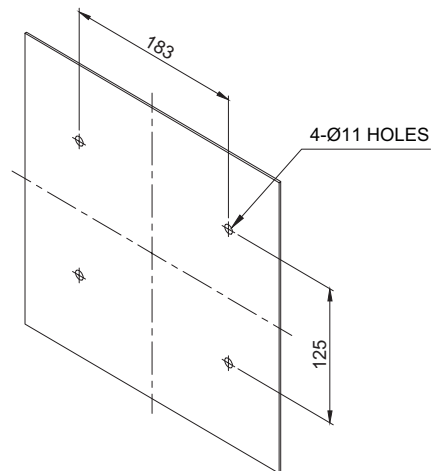
SMDL /SMDLP

Installation Environment and Protection Rating

• 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.
• 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 it's operation.
• For further information, please visit our website (www.qlight.com).

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.

ABS American Bureau of Shipping

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

RMRS Russian Maritime Register of Shipping

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

CCS China Classification Society

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

KR Korean Register of Shipping

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

LR Lloyd's Register

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

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)

KC Korea Safety Certification

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

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.

CCC China Compulsory Certificate

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

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.

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.

CE European Commission

Qlight has been certified by the European Commission.
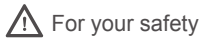
ICAO International Civil Aviation Organization

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

RoHS2 Restriction of Hazardous Substances Directive

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

MEMO

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