

SEA Series



SEALR



SEAL

PRODUCT SPECIFICATION

SEALR | SEAL | SEAS | SEA

Materials Lens-Tempered glass, filter-PC, Housing-Al, Protection cage-STSS316L, Reflector-PC, Reflector-Heat resistant ABS

Ambient operating temperature

-20°C ≤ Tamb ≤ +60°C(TS)

-40°C ≤ Tamb ≤ +55°C(KCs)

-40°C ≤ Tamb ≤ +60°C

Explosion protection rating

IECEX - Ex db IIC T6 Gb, IP66

ATEX - II2G Ex db IIC T6 Gb, IP66

KCs - Ex d IIC T6 IP66

NEPSI, CCC - Ex db IIC T6 Gb

TS - Ex db IIC T6 IP66 Gb(SEAL)

Certificates IECEX, ATEX, NEPSI, CCC, KCs, CCS, TS

Housing standard color MUNSELL No. 7.5BG 7/2

Cable Entry 1/2" NPT

- Large explosion proof warning/ signal lights with excellent visibility for long distance
- A variety of light source selections from bulb, LED, and xenon lamp
- Fully enclosed structure with protection rating of IP66
- Integrated housing and terminal box model

SEALR LED Revolving Warning Light

Model number	Voltage	Current	Certificates	Weight	Color
SEALR	DC24V	0.127A		5.33kg	● R-Red
	AC110V	0.035A		5.74kg	● A-Amber
	AC220V	0.017A		5.74kg	● G-Green
					● B-Blue

- Excellent omni-directional visibility with LED light collecting system and special multifaceted reflector
- Revolving speed: 120-140RPM

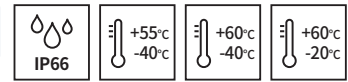
SEAL LED Steady/Flashing Signal Light

Model number	Voltage	Current	Certificates	Weight	Color
SEAL	DC24V	0.165A		4.87kg	● R-Red
	AC110V	0.045A		5.25kg	● A-Amber
	AC220V	0.025A		5.25kg	● G-Green
					● B-Blue

- Long-lasting high intensity LED light source
- Suitable for applications where bulb replacement is difficult
- Built-in steady/flashing selection switch
- Flashing rate: 60-80 flashes/min

Customization

- Explosion proof cable gland attached type available (Standard type does not come with explosion proof cable gland)
- 2 ways cable entry
- Customized cable entry (3/4" NPT, M20×1.5, M25×1.5) available



SEAS Xenon Lamp Strobe Signal Light

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
SEAS	DC24V	0.615A		EUB0641	48		5.39kg	R-Red
	AC110V	0.135A	200V -550V	-1A(G) U type			5.35kg	A-Amber
	AC220V	0.105A					5.35kg	G-Green

- Lamp connector fastening structure allows for convenient lamp replacement
- Excellent long-distance visibility with strong strobe signal diffusion
- Flashing rate: 60-80 flashes/min



SEAS

SEA Bulb Revolving Warning Light

Model number	Voltage	Current	Bulb			Certificates	Weight	Color
			Spec	Standard	Parts no			
SEA	DC24V	0.766A	24V15W	G23 15S	18		5.36kg	R-Red
	AC110V	0.204A	12V15W	G23 15S	17		5.75kg	A-Amber
	AC220V	0.102A	12V15W	G23 15S	17		5.75kg	G-Green

- Excellent diffusion effect with special multifaceted reflector
- Revolving speed: 120-140RPM

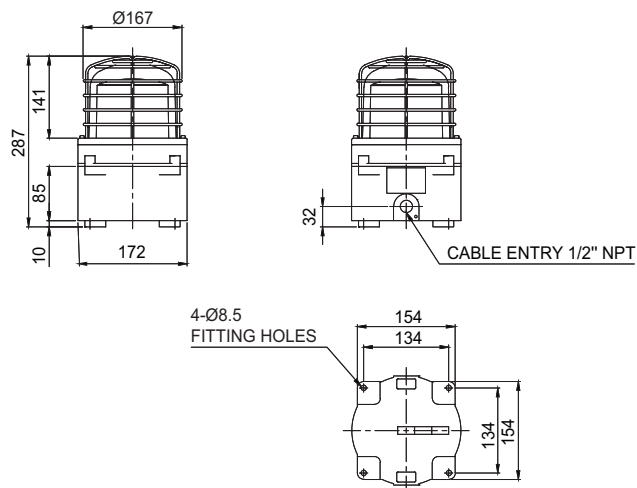


SEA

Technical Diagram

Units: mm

· SEALR / SEAL / SEAS / SEA



Ordering Specification

SEA	220	R	IECEx
[Model number]	[Voltage]	[Color]	[Certificates]
SEALR	24-DC24V	R-Red	IECEx
SEAL	110-AC110V	A-Amber	ATEX
SEAS	220-AC220V	G-Green	KCs
SEA		B-Blue	CCC(NEPSI) TS

SH1/ SH2 series

Heavy-Duty Signal Lights/ Warning Lights
for Vessels and Heavy Industry Applications

Superior durability with fully enclosed structure and corrosion resistance, suitable for vessels and heavy industry applications

- SH1 series-Ø125mm
- SH2 series-Ø150mm



Common Specifications

- Aluminum housing and polycarbonate lens material provides excellent impact resistance under seismic conditions
- Excellent hermetic structure that blocks water and dust
- Can select a variety of light sources (Bulb, LED, and xenon) for your application needs and environmental conditions
- Terminals located inside the terminal box or product
- Cable entry : 1/2"PF
- Materials : Lens-PC, Housing-Al, Protection cage-SUS316L, Reflector for LED type-PC/ Reflector for bulb type-Heat resistant ABS
- Housing standard color : MUNSELL No. 7.5BG 7/2
- Protection rating : IP66

A Variety of Selectable Light Source and Function Combinations

You can select from a variety of light sources for your work environment, condition, and purpose. Basic specifications are as follows :

- LED revolving type
- LED steady/flashing type
- xenon lamp strobe type
- Bulb revolving type

User-selected LED strobe type and LED simulated revolving type are available upon request.

1 Lenses

- Utilizes a strong and durable polycarbonate material with excellent shock and vibration resistance
- The lens surface has two types depending on the light source function-Light diffusion type and light transmission type

Light transmission type		LED revolving type Bulb revolving type	SH()LR SH()
Light diffusion type		LED steady/flashing type xenon lamp strobe type	SH()L/LF SH()S

2 Protection cage

- The durable protection cage is made of corrosion resistant stainless steel that prevents damage to the lens from external contact
- Materials : SUS316L



3 Housing

- The special aluminum body housing features superior durability
- The housing is corrosion resistant from a special anodized surface treatment process
- Materials : Al

4 Fully enclosed structure

- The tightly sealed warning light structure is waterproof and dustproof
- Protection rating : IP66

5 Terminal box

- Terminal box is located on the side of housing for easy wiring
- Materials : Al

6 Brackets

- Stainless steel mounting bracket is conveniently attached to the outer surface of the product
- Materials : SUS

SH1/SH2 series Product Categories



Standard model

- Protection cage or terminal box not attached
- Terminals located inside the housing
- Use in environments that has low probability of damage to the lens due to external forces
- SH1/SH2 series is available in this model



Terminal box mounted type

- Equipped with a terminal box for easy wiring
- Terminal box enables easy wiring
- Use in environments that has low probability of damage to the lens due to external forces
- SH1T()/ SH2T() is available in this model



Protection cage mounted type

- Equipped with a Protection cage
- Terminals located inside the housing
- Damage to the lens from external forces can be prevented with protection cage
- SH1()P/SH2()P is available in this model



Terminal box and protection cage mounted type

- Equipped with a protection cage and a terminal box
- Terminal box enables easy wiring
- Damage to the lens from external forces can be prevented with protection cage
- SH1T()P/ SH2T()P is available in this model



Warning/
Signal/
Stackable



Signal &
Electric Horn/
Speakers



Vessels and
Heavy-Duty
Equipment



Explosion
Proof



Warning
Light Bar



Aviation
Obstruction
Lights



Signal Tower
Lights



USB/ETN
Signal Tower
Lights



Wireless
Network
System



Electric Horn/
Speakers



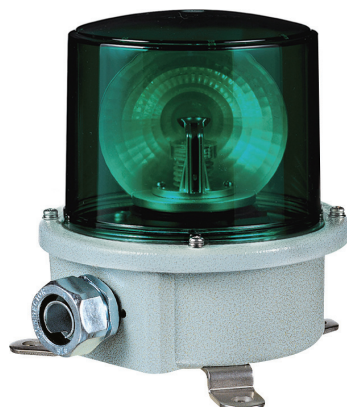
Industrial
LED Lights

SH1LR/ SH2LR series

Heavy-Duty LED Revolving Warning Lights
for Vessels and Heavy Industry Applications



- SH1LR-Ø125mm
- SH2LR-Ø150mm



SH1LR



SH2LRP

SH1LR/SH2LR models are equipped with flexible connector, and SH1TLR/SH2TLR models are equipped with 15C nipple at cable entry.



Flexible connector



15C nipple



Common Specifications(SH1L/ SH2L)

- Features high visibility in all directions with special concentrated LED light structure and multi side reflector
- Revolving speed : 120-140RPM
- Materials : Lens-PC, Housing-Al, Protection cage-SUS316L, Reflector for LED : PC
- Ambient operation temperature : -20°C to +50°C
- Cable entry : 1/2"PF
- Housing standard color : MUNSELL No.7.5BG 7/2
- Protection rating : IP66



SH1LR LED Revolving Warning Light

- Certificates : KIMM, ABS, CCS

Model number	Voltage	Current	Certificates	Color
• SH1LR Standard type	DC12V	0.422A	 	• R-Red • A-Amber • G-Green • B-Blue
• SH1LRP Protection cage type	DC24V	0.266A		
• SH1TLR Terminal box type	AC110V	0.082A		
• SH1TLRP Protection cage and terminal box type	AC220V	0.041A		



SH2LR LED Revolving Warning Light

- Certificates : KIMM, ABS

Model number	Voltage	Current	Certificates	Color
• SH2LR Standard type	DC12V	0.422A	 	• R-Red • A-Amber • G-Green • B-Blue
• SH2LRP Protection cage type	DC24V	0.266A		
• SH2TLR Terminal box type	AC110V	0.082A		
• SH2TLRP Protection cage and terminal box type	AC220V	0.041A		

SH1LR/SH2LR LED Reflector Warning Lights Specification Category and Products Weight Chart

Type	SH1 series		SH2 series	
Lens diameter	Ø125mm		Ø150mm	
Standard		SH1LR (1.64kg)		SH2LR (1.69kg)
Built-in protection cage		SH1LRP (1.89kg)		SH2LRP (1.98kg)
Built-in terminal box		SH1TLR (2.10kg)		SH2TLR (2.15kg)
Built-in protection cage & Terminal box		SH1TLRP (2.35kg)		SH2TLRP (2.44kg)

※ Product weight is based on AC type.



Ordering Specification

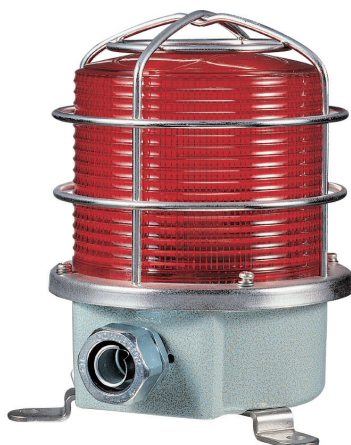
SH1LR	-	12	-	R
[Model number]		[Voltage]		[Color]
• SH1LR • SH1LRP • SH1TLR • SH1TLRP • SH2LR • SH2LRP • SH2TLR • SH2TLRP		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

SH1L/ SH2L series

Heavy-Duty Steady/ Flash Signal Lights
for Vessels and Heavy Industry Applications



- SH1L-Ø125mm
- SH2L-Ø150mm



SH1LP

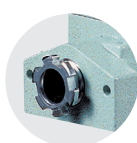


SH2TLP

SH1L/SH2L models are equipped with flexible connector, and SH1TL/SH2TL models are equipped with 15C nipple at cable entry.



Flexible connector



15C nipple



Common Specifications(SH1L/ SH2L)

- Uniform and clear light diffusion with multi layered LED light distribution reflector
- Built-in switch for selection between steady and flashing mode
- Flashing rate : 60-80 flashes/min
- Standard housing color : MUNSELL No. 7.5BG 7/2
- Materials : Lens-PC, Housing-Al, Protection cage-SUS316L, Reflector- Heat resistant ABS
- Ambient operation temperature : -30°C to +50°C
- Cable entry : 1/2"PF
- Protection rating : IP66



SH1L LED Steady/Flashing Signal Light

- Certificates : KIMM, ABS, CCS

Model number	Voltage	Current	Certificates	Color
• SH1L Standard type	DC12V	0.300A		• R-Red • A-Amber • G-Green • B-Blue
• SH1LP Protection cage type	DC24V	0.200A		
• SH1TL Terminal box type	AC110V	0.060A		
• SH1TLP Protection cage and terminal box type	AC220V	0.030A		



SH2L LED Steady/Flashing Signal Light

- Certificates : KIMM, ABS

Model number	Voltage	Current	Certificates	Color
• SH2L Standard type	DC12V	0.300A		• R-Red • A-Amber • G-Green • B-Blue
• SH2LP Protection cage type	DC24V	0.200A		
• SH2TL Terminal box type	AC110V	0.060A		
• SH2TLP Protection cage and terminal box type	AC220V	0.030A		

SH1L/SH2L LED Steady/Flashing Signal Lights Specification Category and Products Weight Chart

Type	SH1 series		SH2 series	
Lens diameter	Ø125mm		Ø150mm	
Standard		SH1L (1.49kg)		SH2L (1.57kg)
Built-in protection cage		SH1LP (1.74kg)		SH2LP (1.86kg)
Built-in terminal box		SH1TL (1.95kg)		SH2TL (2.03kg)
Built-in protection cage & Terminal box		SH1TLP (2.20kg)		SH2TLP (2.32kg)

※ Product weight is based on AC type.



Ordering Specification

SH2L	-	220	-	R
[Model number]		[Voltage]		[Color]
• SH1L • SH1LP • SH1TL • SH1TLP • SH2L • SH2LP • SH2TL • SH2TLP		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue



Warning/
Signal/
Stackable



Signal &
Electric Horn/
Speakers



Vessels and
Heavy-Duty
Equipment



Explosion
Proof



Warning
Light Bar



Aviation
Obstruction
Lights



Signal Tower
Lights



USB/ETN
Signal Tower
Lights



Wireless
Network
System



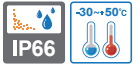
Electric Horn/
Speakers



Industrial
LED Lights

SH1S/ SH2S series

Heavy-Duty Xenon Lamp Strobe Signal Lights
for Vessels and Heavy Industry Applications



- SH1S-Ø125mm
- SH2S-Ø150mm



SH1S



SH2TS

SH1S/SH2S models are equipped with flexible connector, and SH1TS/SH2TS models are equipped with 15C nipple at cable entry.



Flexible connector



15C nipple



Common Specifications(SH1S/ SH2S)

- Convenient lamp change with connector type connection structure
- Flashing rate : 60-80 flashes/min
- Standard housing color : MUNSELL No. 7.5BG 7/2
- Materials : Lens-PC, Housing-Al, Protection cage-SUS316L
- Ambient operation temperature : -30°C to +50°C
- Cable entry : 1/2"PF
- Protection rating : IP66



SH1S Xenon Lamp Strobe Signal Light

- Certificates : KIMM, ABS, CCS

Model number	Voltage	Current	Bulb			Certificates	Color
			Spec	Standard	Parts no		
• SH1S Standard type	DC12V	1.001A	200V -550V	EUB0641 -1A(G) U type	48		• R-Red • A-Amber • G-Green • B-Blue
• SH1SP Protection cage type	DC24V	0.616A					
• SH1TS Terminal box type	AC110V	0.133A					
• SH1TSP Protection cage and terminal box type	AC220V	0.106A					



SH2S Xenon Lamp Strobe Signal Light

- Certificates : KIMM, ABS

Model number	Voltage	Current	Bulb			Certificates	Color
			Spec	Standard	Parts no		
• SH2S Standard type	DC12V	1.001A	200V -550V	EUB0641 -1A(G) U type	48		• R-Red • A-Amber • G-Green • B-Blue
• SH2SP Protection cage type	DC24V	0.616A					
• SH2TS Terminal box type	AC110V	0.133A					
• SH2TSP Protection cage and terminal box type	AC220V	0.106A					

SH1S/SH2S Xenon Strobe Signal Lights Specification Category and Products Weight Chart

Type	SH1S series		SH2S series	
Lens diameter	Ø125mm		Ø150mm	
Standard		SH1S (1.11 kg)		SH2S (1.19 kg)
Built-in protection cage		SH1SP (1.36 kg)		SH2SP (1.48 kg)
Built-in terminal box		SH1TS (1.57 kg)		SH2TS (1.65 kg)
Built-in protection cage & Terminal box		SH1TSP (1.82 kg)		SH2TSP (1.94 kg)

※ Product weight is based on AC type.

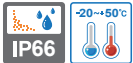


Ordering Specification

SH1S	-	12	-	R
[Model number]		[Voltage]		[Color]
• SH1S • SH1SP • SH1TS • SH1TSP • SH2S • SH2SP • SH2TS • SH2TSP		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue

SH1/SH2 series

Heavy-Duty Bulb Revolving Signal Light
for Vessels and Heavy Industry Applications



- SH1-Ø125mm
- SH2-Ø150mm



SH1



SH2T

SH1/SH2 models are equipped with flexible connector, and SH1T/SH2T models are equipped with 15C nipple at cable entry.



Flexible connector



15C nipple



Common Specifications(SH1/ SH2)

- Excellent light diffusion effect with multi faced reflector
- Adopts a special power transmission system that reduces noise and wear
- Revolving speed : 120-140RPM
- Standard housing color : MUNSELL No. 7.5BG 7/2
- Materials : Lens-PC, Housing-AI, Protection cage-SUS316L, Reflector-PC
- Ambient operation temperature : -20°C to +50°C
- Cable entry : 1/2"PF
- Protection rating : IP66



SH1 Bulb Revolving Warning Light

- Certificates : KIMM, ABS, CCS, CE

Model number	Voltage	Current	Bulb			Certificates	Color
			Spec	Standard	Parts no		
• SH1 Standard type	DC12V	1.544A	12V15W	G23 15S	17		• R-Red • A-Amber • G-Green • B-Blue
• SH1P Protection cage type	DC24V	0.766A	24V15W	G23 15S	18		
• SH1T Terminal box type	AC110V	0.204A	12V15W	G23 15S	17		
• SH1TP Protection cage and terminal box type	AC220V	0.102A	12V15W	G23 15S	17		



SH2 Bulb Revolving Warning Light

- Certificates : KIMM, ABS, CE

Model number	Voltage	Current	Bulb			Certificates	Color
			Spec	Standard	Parts no		
• SH2 Standard type	DC12V	1.544A	12V15W	G23 15S	17		• R-Red • A-Amber • G-Green • B-Blue
• SH2P Protection cage type	DC24V	0.766A	24V15W	G23 15S	18		
• SH2T Terminal box type	AC110V	0.204A	12V15W	G23 15S	17		
• SH2TP Protection cage and terminal box type	AC220V	0.102A	12V15W	G23 15S	17		

SH1/SH2 Bulb Revolving Warning Lights Specification Category and Products Weight Chart

Type	SH1 series		SH2 series	
Lens diameter	Ø125mm		Ø150mm	
Standard		SH1 (1.61kg)		SH2 (1.77kg)
Built-in protection cage		SH1P (1.86kg)		SH2P (2.06kg)
Built-in terminal box		SH1T (2.07kg)		SH2T (2.23kg)
Built-in protection cage & Terminal box		SH1TP (2.32kg)		SH2TP (2.52kg)

※ Product weight is based on AC type.



Ordering Specification

SH1T	-	220	-	R
[Model number]		[Voltage]		[Color]
• SH1 • SH1P • SH1T • SH1TP • SH2 • SH2P • SH2T • SH2TP		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red • A-Amber • G-Green • B-Blue



Warning/
Signal/
Stackable



Signal &
Electric Horn/
Speakers



Vessels and
Heavy-Duty
Equipment



Explosion
Proof



Warning
Light Bar



Aviation
Obstruction
Lights



Signal Tower
Lights



USB/ETN
Signal Tower
Lights



Wireless
Network
System



Electric Horn/
Speakers



Industrial
LED Lights

SH1/ SH2 series

Heavy-Duty Signal Lights/ Warning Lights
for Vessels and Heavy Industry Applications

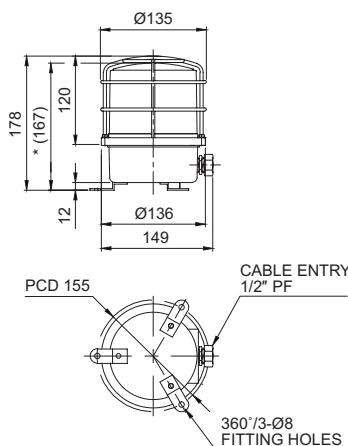


Technical Diagram

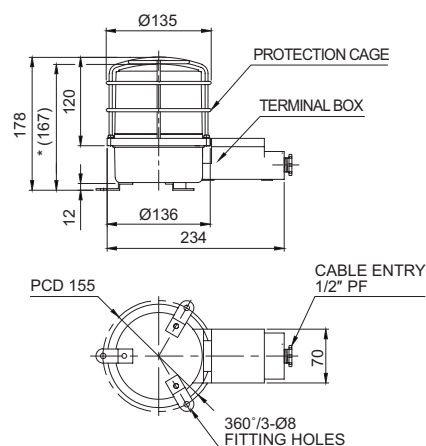
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SH1LRP/ SH1LP/ SH1SP/ SH1P



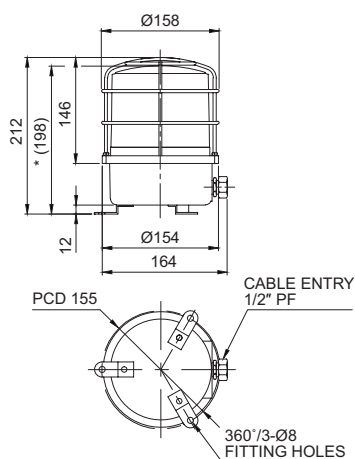
SH1TLRP/ SH1TLP/ SH1TSP/ SH1TP



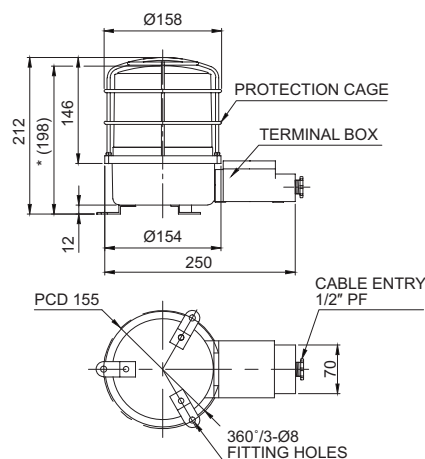
* (167) represents SH1LR/ SH1L/ SH1S/ SH1, SH1TLR/ SH1TL/ SH1TS/ SH1T size without protection cage.



SH2LRP/ SH2LP/ SH2SP/ SH2P



SH2TLRP/ SH2TLP/ SH2TSP/ SH2TP

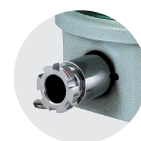


* (198) represents SH2LR/ SH2L/ SH2S/ SH2, SH2TLR/ SH2TL/ SH2TS/ SH2T size without protection cage.



Customization

- 3/4"PF cable entry
Standard cable entry is 1/2"PF
3/4"PF is customization
- Built-in cable gland type
Flexible connector is equipped to the standard cable entry
- Brass housing product
SH2 series brass housing provides products with excellent corrosion resistance as customization
* Color will be MUNSELL No. 7.5BG 7/2 when Released.
- 2T type has 2 cable entries in the terminal box
2 cable entries terminal box is a customized add-on,
please refer to the technical diagram on page165



Built-in cable gland type



Brass housing product



2 cable entries
terminal box model

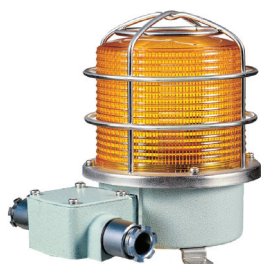
SH1/ SH2 series

Heavy-Duty Signal Lights/ Warning Lights
for Vessels and Heavy Industry Applications

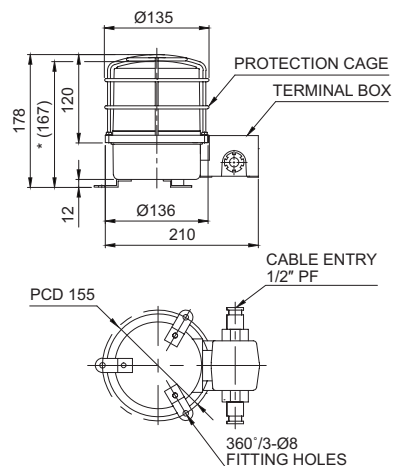


Technical Diagram for 2T Type Cable Entries

(Units : mm)



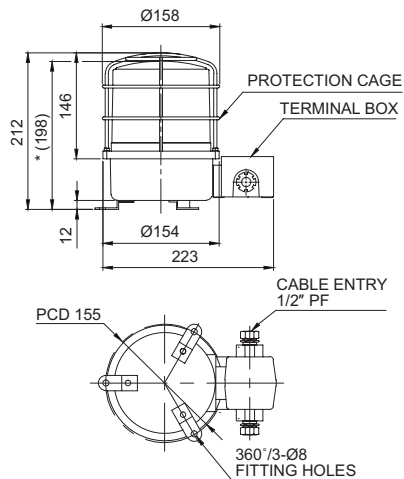
SH1LR-2TP/ SH1L-2TP/ SH1S-2TP/ SH1-2TP



※ *(167) represents SH1LR-2T/ SH1L-2T/ SH1S-2T/ SH1-2T size without protection cage.



SH2LR-2TP/ SH2L-2TP/ SH2S-2TP/ SH2-2TP



※ *(198) represents SH2LR-2T/ SH2L-2T/ SH2S-2T/ SH2-2T size without protection cage.



Warning/
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Signal &
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Vessels and
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Industrial
LED Lights