

# SED/ SD/ SMD series

Warning Light and Electric Horn Combinations  
for Vessels and Heavy Industry Applications

Wall mount warning light and electric horn combinations featuring superior durability, tight seal, and corrosion resistance, designed for vessels and heavy Industrial applications

## • SED series

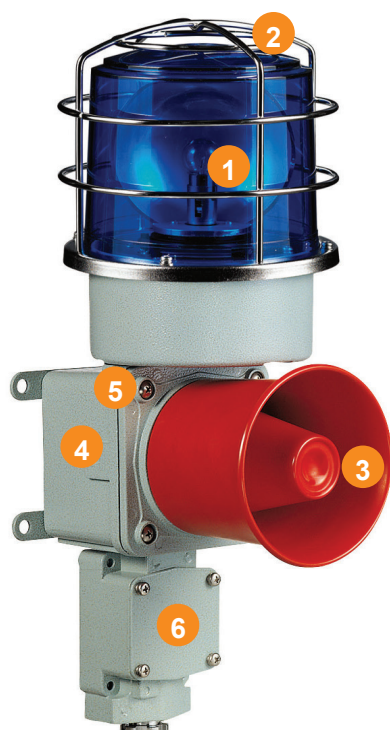
- 125mm warning light & electric horn with Max 118dB sound output

## • SD series

- 150mm warning light & electric horn with Max 118dB sound output

## • SMD series

- 150mm warning light & electric horn with Max 120dB sound output



### 1 Lens

Utilizes a strong and durable polycarbonate material with excellent shock and vibration resistance.

The lens surface has two types according to the light source type and function-light diffusion type and light transmission type.

Light transmission type		LED revolving type(SEDLR) Bulb revolving type(SED)
Light diffusion type		LED steady/flashing type(SED/LF) Xenon lamp strobe type(SEDs)

### 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



## Common Specifications

- Wall mount warning light and electric horn combinations for vessels and heavy industrial applications
- Aluminum housing and polycarbonate lens material provides excellent impact and shock resistance
- Excellent hermetic structure that block water and dust
- Can select a variety of light source(bulb, LED, xenon lamp) and sound pattern combination
- Attached terminal box enables easy wiring
- Can adjust sound volume and select sound pattern with the switches built inside the products
- Cable entry : 1/2"PF
- Materials : Lens-PC, Housing-Al, Protection cage-SUS316L, Reflector-PC, Multi-tiered reflector-Heat resistance ABS
- Standard housing color : MUNSELL No. 7.5GBG 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 stimulated revolving type are available upon request.

### 3 A variety of selectable warning sounds and sound messages

You can convey specific information with a variety of 20 warning sounds and voice messages.

Sound	Pattern	Ch	Sound Tone
WS	5 Warning sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG Emergency WA-U(Yelp) Ambulance PI-PO(Hi-low) Machinery Fault High Expansion
WP	5 Special warning sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG Abandon Alarm Machinery Fault High Expansion 7 Short Pl. / 1 Long
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
WV	5 Customizable sound messages	Ch1-Ch5	Customized sound tones

### 4 Housing

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

### 5 Fully enclosed structure

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

### 6 Terminal Box

- Terminal box is located at the bottom of the product for easy wiring
- Materials : Al

# SED/ SD/ SMD series

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## SED/ SD/ SMD series Information



### Standard type

























- No protection cage is provided
- Recommended for the places where the lens is not damaged by external contact
- Model lists : SED/ SD/ SMD



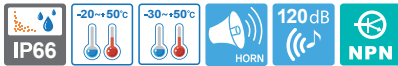
### Protection cage type

- Provided with protection cage
- Lens can be protected from the damage by external contact
- Model lists : SEDP/ SDP/ SMDP

## SED/ SD/ SMD series References

	SED series		SD series		SMD series	
Diameter / dB	Ø125mm / Max 118dB at 1m		Ø150mm / Max 118dB at 1m		Ø150mm / Max 120dB at 1m	
Materials	Lens - PC, Housing - Al, Protection cage-SUS316L, Reflector - PC/ Heat resistant ABS					
Protection rating	IP66					
Certificates	KIMM/ CCS/ KR/ CE		KIMM/ ABS/ LR/ KR/ CE			
Cable entry	Standard : 1/2"PF (Customized cable entry available : 3/4"PF)					
Mounting	Wall mounting					
	Standard	With protection cage	Standard	With protection cage	Standard	With protection cage
LED revolving	 SEDLR	 SEDLRP	 SDLR	 SDLRP	 SMDLR	 SMDLRP
LED steady/flashing	 SEDL	 SEDLP	 SDL	 SDLP	 SMDL	 SMDLP
Xenon lamp strobe	 SEDS	 SEDSP	 SDS	 SDSP	 SMDS	 SMDSP
Bulb revolving	 SED	 SEDP	 SD	 SDP	 SMD	 SMDP

# SMD series



## Ø150mm signal light and 120dB electric horn combination



**SMDLR**



**SMDLP/SMDSP**



**SMDP**

## Warning Lights and Electric Horns for Vessels and Heavy Industry Applications



### Common Specifications(SMDLR/ SMDL/ SMDS/ SMD)

- Materials : Lens-PC, Housing-AI, Protection cage-SUS316L, Reflector-PC/ Heat resistant ABS
- Cable entry : 1/2"PF
- Housing color : MUNSELL No. 7.5BG 7/2
- Protection rating : IP66



### SMDLR/ SMDLRP LED Revolving Warning Light and Electric Horn Combination

- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to + 50°C

Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight	Color
SMDLR SMDLRP	DC12V	2.522A	<ul style="list-style-type: none"> <li>• WS-5 Warning sounds : 120dB</li> <li>• WP-5 Special warning sounds : 120dB</li> <li>• WM-5 Melodies : 120dB</li> <li>• WA-5 Alarms : 118dB</li> <li>• WV-5 Customizable voices : 115dB</li> </ul>	-	• SMDLR DC-5.91kg	<ul style="list-style-type: none"> <li>• R-Red</li> <li>• A-Amber</li> <li>• G-Green</li> <li>• B-Blue</li> </ul>
	DC24V	1.322A			AC-6.68kg	
	AC110V	0.326A			• SMDLRP DC-6.20kg	
	AC220V	0.163A			AC-6.97kg	



### SMDL/ SMDLP LED Steady/Flashing Warning Light and Electric Horn Combination

- Flashing rate : 60-80 flashes/min(Built-in steady/flashing selection switch)
- Ambient operating temperature : -30°C to +50°C

Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight	Color
SMDL/ SMDLP	DC12V	2.400A	<ul style="list-style-type: none"> <li>• WS-5 Warning sounds : 120dB</li> <li>• WP-5 Special warning sounds : 120dB</li> <li>• WM-5 Melodies : 120dB</li> <li>• WA-5 Alarms : 118dB</li> <li>• WV-5 Customizable voices : 115dB</li> </ul>	-	• SMDL DC-5.77kg	<ul style="list-style-type: none"> <li>• R-Red</li> <li>• A-Amber</li> <li>• G-Green</li> <li>• B-Blue</li> </ul>
	DC24V	1.255A			AC-6.19kg	
	AC110V	0.304A			• SMDLP DC-6.06kg	
	AC220V	0.152A			AC-6.48kg	



### SMDS/ SMDSP Xenon Lamp and Electric Horn Combination

- Convenient lamp exchange by adopting connector type lamp installation
- Flashing rate : 60-80 flashes/min
- Ambient operating temperature : -30°C to +50°C

Model number	Voltage	Current	Bulb			Sound pattern and volume	Certificates	Weight	Color
			Spec	Standard	Parts no				
SMDS SMDSP	DC12V	2.822A	200V -550V	EUB0641 -1A(G) U Type	48	<ul style="list-style-type: none"> <li>• WS-5 Warning sounds : 120dB</li> <li>• WP-5 Special warning sounds : 120dB</li> <li>• WM-5 Melodies : 120dB</li> <li>• WA-5 Alarms : 118dB</li> <li>• WV-5 Customizable voices : 115dB</li> </ul>	-	• SMDS DC-5.83kg	<ul style="list-style-type: none"> <li>• R-Red</li> <li>• A-Amber</li> <li>• G-Green</li> <li>• B-Blue</li> </ul>
	DC24V	1.444A						AC-6.21kg	
	AC110V	0.377A						• SMDSP DC-6.12kg	
	AC220V	0.228A						AC-6.50kg	



### SMD/ SMDP Bulb Revolving Warning Light and Electric Horn Combination

- Revolving speed : 120-140RPM
- Ambient operating temperature : -20°C to + 50°C

Model number	Voltage	Current	Bulb			Sound pattern and volume	Certificates	Weight	Color
			Spec	Standard	Parts no				
SMD SMDP	DC12V	3.644A	12V15W	G23 15S	17	<ul style="list-style-type: none"> <li>• WS-5 Warning sounds : 120dB</li> <li>• WP-5 Special warning sounds : 120dB</li> <li>• WM-5 Melodies : 120dB</li> <li>• WA-5 Alarms : 118dB</li> <li>• WV-5 Customizable voices : 115dB</li> </ul>	-	• SMD DC-5.98kg	<ul style="list-style-type: none"> <li>• R-Red</li> <li>• A-Amber</li> <li>• G-Green</li> <li>• B-Blue</li> </ul>
	DC24V	1.822A	24V15W	G23 15S	18			AC-6.76kg	
	AC110V	0.448A	12V15W	G23 15S	17			• SMDP DC-6.27kg	
	AC220V	0.224A	12V15W	G23 15S	17			AC-7.05kg	



# SED/ SD/ SMD series

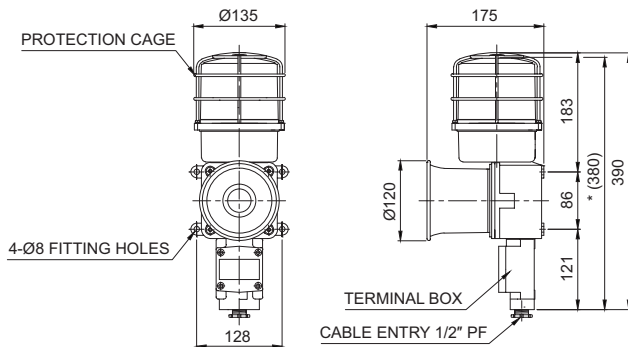
Warning Lights and Electric Horns Combinations  
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## Technical Diagram

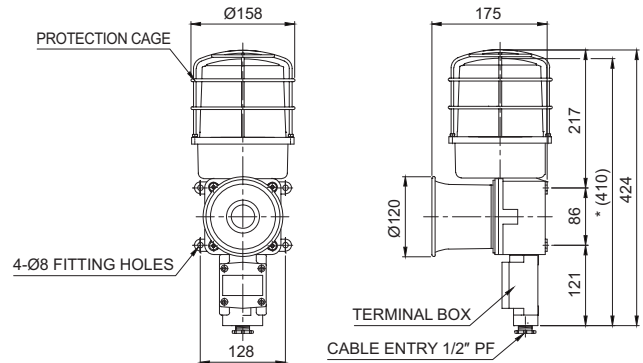
(Units : mm)

SEDLRP/ SEDLP/ SEDSP/ SEDP



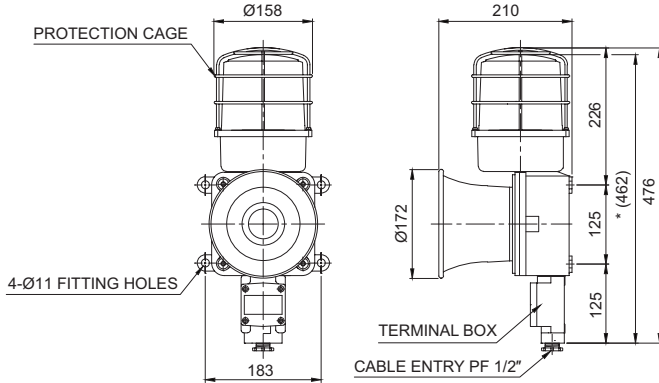
※ \*(380)represents SEDLR/ SEDL/ SEDS/ SED size without protection cage.

SDLRP/ SDLP/ SDSP/ SDP



※ \*(410)represents SDLR/ SDL/ SDS/ SD size without protection cage.

SMDLRP/ SMDLP/ SMDSP/ SMDP



※ \*(462) represents SMDLR/ SMDL/ SMDS/ SMD size without protection cage.



## Customization

- Cable gland type
- Customized cable entry(3/4"PF) available(Standard : 1/2"PF)
- Customized external sound line type available : SED/SD/SMD series have built-in switch for sound tone selection  
Customized wiring in case of external contact or transistor wiring type as sound tone selector (Model number : -LC)
- Brass housing  
Brass housing for SD/ SMD series are optionally provided which has excellent anti-corrosive properties

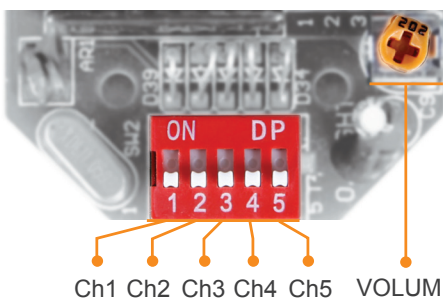
※ Color will be MUNSELL No. 7.5BG 7/2 when released.



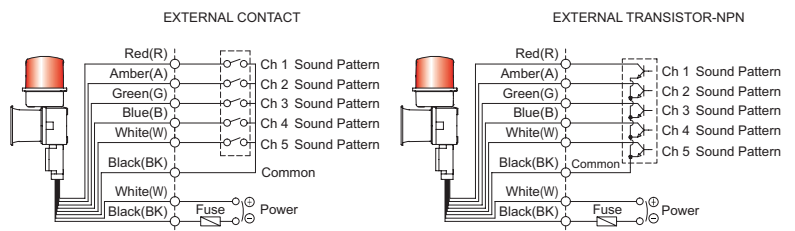
## Sound Selection Instructions and Wiring

- Standard Type : Select sound using the switch inside of the unit. When you turn on the dip switch for each channel, the designated sound will be played.

- Customization : External contact(LC)



SED SERIES-DC/AC  
SD SERIES-DC/AC  
SMD SERIES-DC/AC



- SED, SEDLR, SD, SDLR, SMD, SMDLR : Black output line is negative(-)



## Ordering Specification

SEDLR	WA	24	R
[Model number]	[Sound]	[Voltage]	[Color]
<ul style="list-style-type: none"> <li>• SEDLR</li> <li>• SEDS</li> <li>• SDLR</li> <li>• SDS</li> <li>• SMDLR</li> <li>• SMDS</li> </ul>	<ul style="list-style-type: none"> <li>• WS-Warning sounds</li> <li>• WP-Special warning sounds</li> <li>• WM-Melodies</li> <li>• WA-Alarms</li> <li>• WV-Customizable voices</li> </ul>	<ul style="list-style-type: none"> <li>• 12-DC12V</li> <li>• 24-DC24V</li> <li>• 110-AC110V</li> <li>• 220-AC220V</li> </ul>	<ul style="list-style-type: none"> <li>• R-Red</li> <li>• A-Amber</li> <li>• G-Green</li> <li>• B-Blue</li> </ul>
<ul style="list-style-type: none"> <li>• SEDLRP</li> <li>• SEDSP</li> <li>• SDLRP</li> <li>• SDSP</li> <li>• SMDLRP</li> <li>• SMDSP</li> </ul>			
<ul style="list-style-type: none"> <li>• SEDL</li> <li>• SED</li> <li>• SDL</li> <li>• SD</li> <li>• SMDL</li> <li>• SMD</li> </ul>			
<ul style="list-style-type: none"> <li>• SEDLP</li> <li>• SEDP</li> <li>• SDLP</li> <li>• SDP</li> <li>• SMDLP</li> <li>• SMDP</li> </ul>			