



## Products description and application

Specially designed for engineering machinery (overhead cranes, crawler cranes, mobile cranes), port machinery (quay cranes, gantry cranes).

## Features

- Compact and light-weight structure
- High brightness LED chips, color and working model is optional
- Reliable and stable, long lifetime
- PC lens and excellent optical design to achieve high light transmission, UV resistance and aging resistance.
- Installation method is optional
- Wide voltage range for AC and DC version

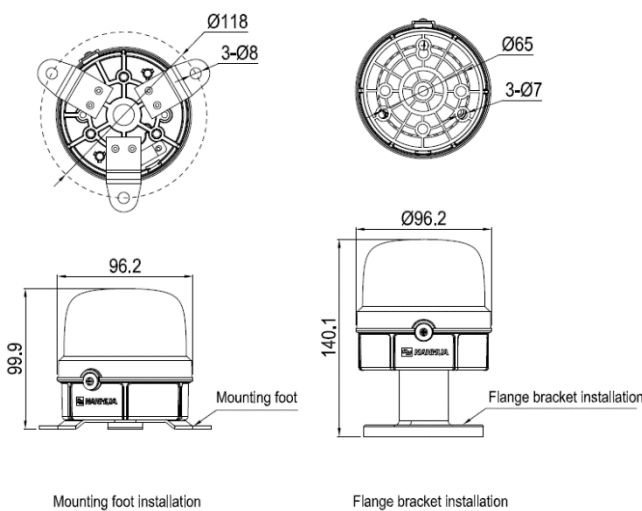
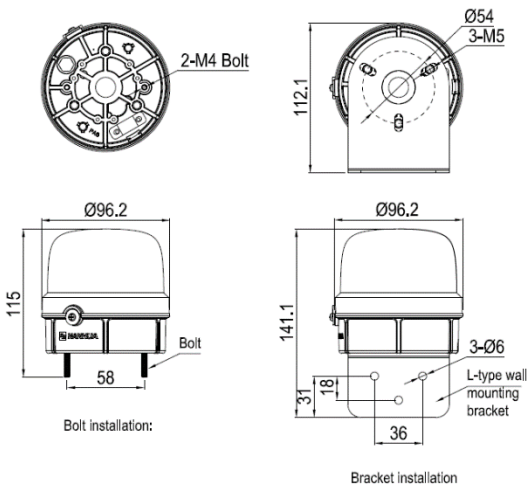
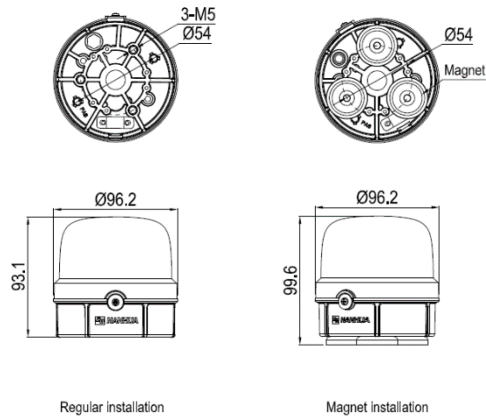
## General Specifications

Electrical		Mechanical	
Rated voltage	9-32VDC/85-265VAC	Material	Body:PA6+GF30% Cover:PC
Rated power consumption	<3 W(Average), 6.5W(Peak) <5 W(Average), 8.5W(Peak)	Color	Red, Amber
Frequency	50Hz/60Hz	Weight	0.3kg
EMC	IEC61000-4-2 Air discharge 8KV, contact discharge 4KV IEC61000-4-5 Wire to wire 1KV, wire to ground 2KV	Installation method	Wall mounting (with bracket)/Surface mounting
Connetion type	Bottom lead wire/ side lead wire	Operating temperature	IEC60068-2-1/IEC60068-2-2 -30℃~+55℃
		Ambient humidity	IEC60068-2-3 10%~95%RH
		Vibration resistance level	IEC60068-2-6 2g
		IP Rate	IEC60529 IP65
Photometric			
Alarm Mode	Steady burning/ flashing/Rotating,etc (16 modes for optional)		
Intensity	≤50cd		
Light source	LED		
Color	Red, Amber		
LED life time	100,000h		



## Mounting dimensions

Unit:mm



### Screws installation:

The installation surface should be flat and have sufficient mechanical strength. Punch three  $\phi 5$ mm holes in the installation position according to the size requirements. Use three M5 screws, washers, spring washers, hex nuts to fix it to the mounting surface.

### Magnet installation:

Choose a place where the magnet can be adsorbed.  
(Don't recommended use it at the position with high frequency vibration )

### Bolt installation:

The installation surface should be flat and have sufficient mechanical strength. Punch two  $\phi 4$ mm holes in the installation position according to the size requirements. Use two M4 washers, spring washers, hexnuts to fix it to the mounting surface.

### Bracket installation:

Firstly, take out the bracket and screws from the accessories bag and to fix the bracket to LR09. Secondly, use three M5 screws to fix the bracket and the lamp. Use three M5 screws, washers, spring washers to fix the lamp to the position where it needs to be installed.

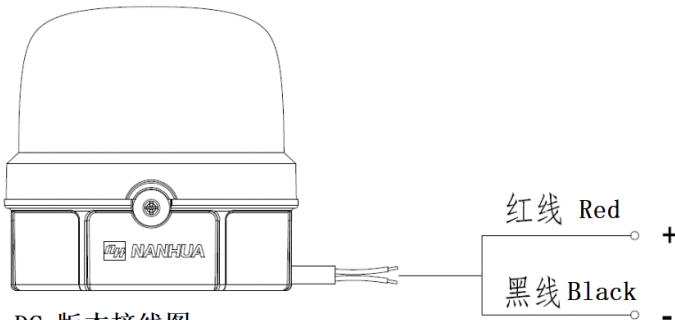
### Mounting bracket installation:

Firstly take out the mounting foot and  $\phi 3.5$  screws, fix the mounting feet to the lamp. Then choose mechanical strength and flat installation surface, punch three  $\phi 5$ mm holes in the installation position according to the size requirements. Use three M5 screws, washers, spring washers and hexnut to fix it to the mounting surface.

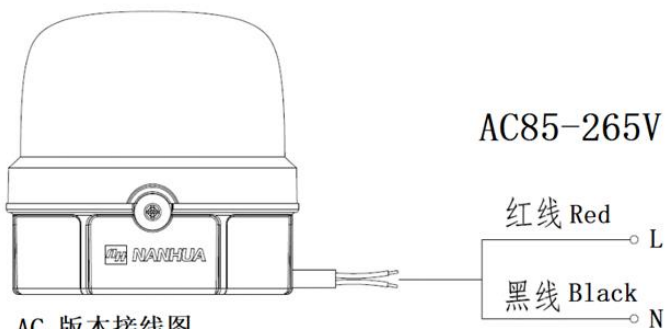
### Flange installation:

Choose enough mechanical strength and flat installation surface. Punch three  $\phi 5$ mm holes in the installation position according to the size requirements. Use three M5 screws, washers, spring washers, hexnut to fix the lamp to the position where it needs to be installed.

## Wiring diagram



DC 版本接线图  
DC Version Connection Diagram



AC 版本接线图  
AC Version Connection Diagram

### Precautions

1. The part of material of products is PC, it cannot directly or indirectly touch the organic solvent, such as industrial alcohol, banana oil, isopropyl alcohol, carbon tetrachloride, cyclohexanone and so on, otherwise, the product will be corroded.
2. The warning light is strong, please do not look directly at the warning light at close range.
3. For wiring installation, please operate by professionals.
4. Please read the instructions carefully, and if you have any questions, please contact us.



## Alert mode selection for reference

DIP example (1~4)	DIP value	
	0	常亮 Steady
	1	190ms 300ms 190ms 300ms
	2	190ms 80ms 210ms 190ms 80ms 210ms
	3	70ms 50ms 70ms 50ms 70ms 180ms 70ms 50ms 70ms 50ms 70ms 180ms
	4	1000ms 1000ms
	5	666ms 666ms
	6	500ms 500ms
	7	350ms 350ms
	8	160ms 30ms 160ms 350ms
	9	100ms 30ms 100ms 30ms 100ms 340ms
	10	60ms 30ms 60ms 30ms 60ms 30ms 60ms 360ms
	11	80ms 30ms 80ms 704ms
	12	192ms 80ms 210ms
	13	100ms 100ms 闪烁 Flashing
	14	50ms 50ms 爆闪 Blast flashing 500ms
	15	83ms 模拟旋转 Rotation

### Remarks: The mode is set in the factory

Thanks for choosing our products, NANHUA Electronics is the professional brand of signal transmission and high quality industrial lighting which is trusted and loved by global users from various industries. Read and understand these instructions completely and carefully. Wrong installation and operation may lead to fires, electric shock, and others. Due to our continued efforts to improve our products, product specifications are subject to change without notice. ©NANHUA Electronics Co., Ltd. All rights reserved. www.nanhua.com