

# LS810(L)

## Low Intensity Obstruction Light



### Products description and application

Red at night , steady burning / flashing working mode. Combine the advantages of advanced LED, optical and system control technologies to meet the most demanding applications.

Obstruction light for a wide variety of cranes used in Harbors, Metallurgies, Towers (Telecom,GSM), Smokestacks, Buildings and any other potentially hazardous obstructions to air traffic with a steady burning red safety light.

Apply for the Obstacles lower than 45m.

Apply for the outdoor use.

Apply for the high salinity area.



### Features

- o Professional optical design, using professional optical design software, using high temperature resistant PC lens to ensure long-term use, and meet optical requirements.
- o Based on LED technology, long life span, Low energy and high efficiency.
- o Lamp cover – Polycarbonate, with good anti-impact strength, thermal stability, high transmittance
- o Die casting aluminum enclosure with powder-coat paint finishes, providing corrosion resistance and durability.
- o G3/4" pipe is available, ease of mount.
- o EMC Compliance, No RF Radiation. LED constant current drive to extend LED life.
- o With lamp fault alarm function.
- o With anti-air fall device, easy to install and wire.
- o Steady burning or flashing type adjustable.
- o Extremely Reliable – Major Maintenance Cost Saving.
- o External two M20X1.5 Waterproof gland( can be customized).

### General Specifications

Standard	MH/T 6012-2015 ,AC-137-CA-2017 Aviation obstruction light Compliant to the ICAO(Aerodromes Annex 14) and FAA-L810		
<b>Electrical parameters</b>		<b>Mechanical structural parameters</b>	
Operating voltage	220V(~)/50Hz/60Hz or 48V(=)	Material	Aluminum alloy
Power consumption	4W (steady burning)	Light cover material	Polycarbonate (PC)
Light-emitting element	LED	Relative humidity	10%~95%RH
Lightning surge	IEC61000-4-5 L- N $\pm 3kV$	Operating temperature	Ta-40 °C ~ +55 °C
	IEC61000-4-5 L- PE $\pm 6kV$	IP Rate	IP66
	IEC61000-4-5 N- PE $\pm 6kV$	Wire outlet	G3/4"
Electrostatic discharge	IEC61000-4-2 Contact discharge 8kV	Color	Yellow ● / red ●
Photocell	50~500 lux	Weight	0.3 kg
<b>Optical parameter</b>			
Intensity	$\geq 32.5cd$	Working mode	Steady burning (flashing 30/40/60FPM, adjustable)
Vertical degree	$\geq 10^\circ$	Horizontal degree	360°

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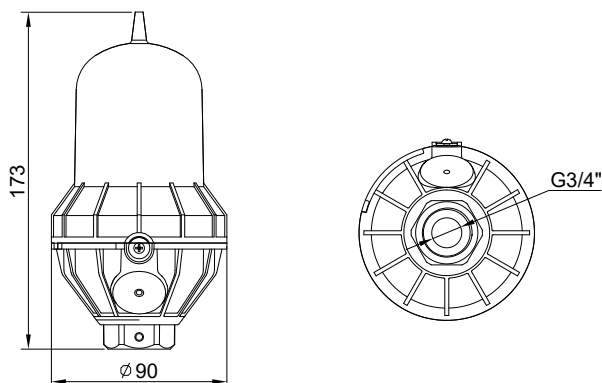
## Low Intensity Obstruction Light



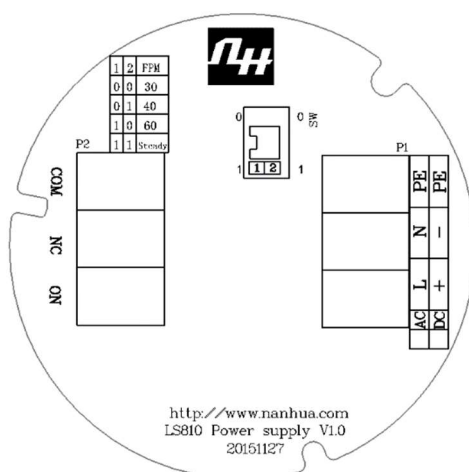
Color Red Lifespan  $\geq 100,000\text{h}$

### Mounting dimensions

Unit: mm



### Wiring diagram



Alarm			Input			
NO	NC	COM	AC	L	N	PE
NO	NC	COM	DC	+	-	PE

### Installation instruction

- Please check the supply voltage does comply with rated voltage of the lamp.
- Unscrew the lamp cover fixing screw and thread the power cord from the outlet pipe or stuffing box. Connect it to the corresponding terminal as indicated.
- Set the required working mode according to the wiring diagram. (Note: The two-position DIP switch has 0 at the end and 1 at the digital end.)
- Tighten the lamp cover to the fixing screw of the lamp holder.
- Finally, install the outlet pipe on the mounting bracket, The fixing rod of the bracket should have sufficient mechanical strength. can choose the aviation lamp mounting bracket specially equipped by our company: PJ024、PJ028、PJ030 etc (See the installation diagram for details.) , Special mounting brackets are available for customization.
- Turn on the power supply and the light starts to work.

Note: When the input voltage is in 48V(—):

If using 1.5mm<sup>2</sup> cable as incoming power cable , The maximum distance from the electrical cabinet to the light is 600m.

If using 2.5mm<sup>2</sup> cable as incoming power cable , The maximum distance from the electrical cabinet to the light is 762m.

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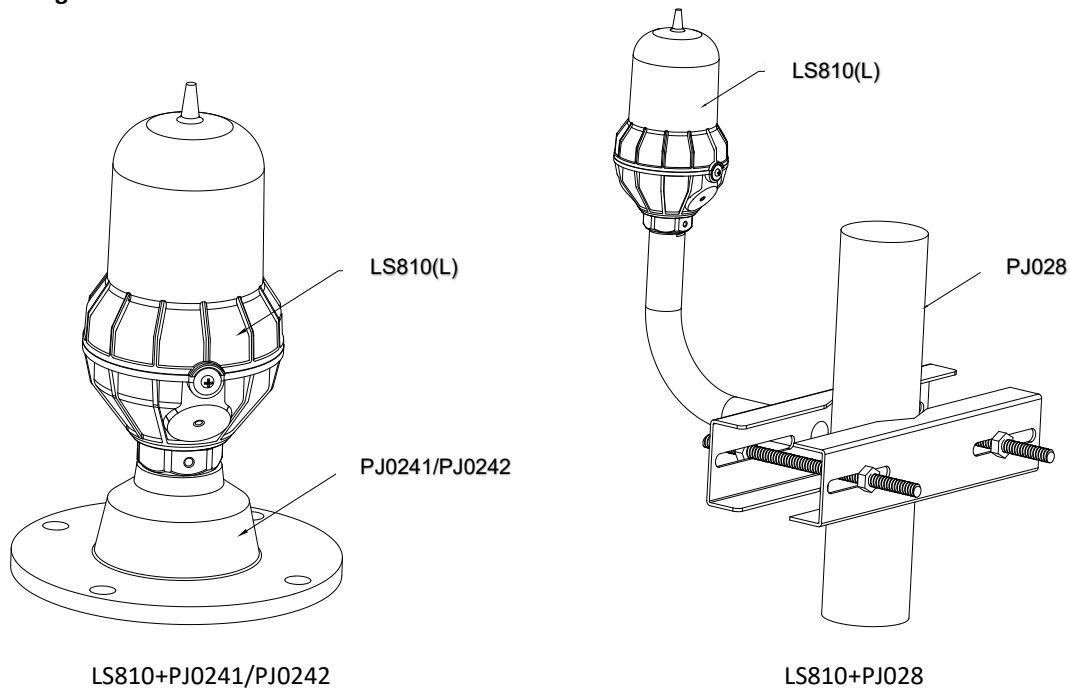


When the input voltage is in 220V(~):

If using 1.5mm<sup>2</sup> cable as incoming power cable , The maximum distance from the electrical cabinet to the light is 762m.

If using 2.5mm<sup>2</sup> cable as incoming power cable , The maximum distance from the electrical cabinet to the light is 762m.

### Installation diagram



### Notes

- The part of material of products is PC( like lamp cover and lamp shell ), so it cannot direct or indirect touch the organic solvent, such as industrial alcohol, banana oil, isotropic alcohol, carbon tetra chloride, Cyclohexanone and so on, otherwise, the product will be corrosion.
- Temperature rise when light working is normal phenomenon.
- This product is a sealed structure and cannot be replaced by a light source.
- Light has own lead out wire, it can not be dismantled; the power cord is Z type for connection, to make sure the IP rate of the product in IP66 , It must need use the waterproof connectors and junction boxes which IP rate is higher than IP66 between the lead wire. Light will be scrapped if the cable was damaged.

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.

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