

LM102 Medium Intensity Obstruction Light



Products description and application

LM102 Medium-intensity aviation obstruction light Type B is used to mark high buildings for aircraft warning. It can operate in the working mode of red flashing or red flashing/steady burning at night. Combine with advanced LED light source, optical and system control technology to meet the most demanding applications.

Suitable for towers, chimney, high buildings, bridges, large construction machinery, large port machinery, wind turbine generation and any other potentially hazardous obstructions to air traffic.

Suitable for outdoor environments and high salinity corrosion area.

Features

- Aluminium alloy die-cast shell, yellow electrostatic powder coating surface, anti-vibration, corrosion-resistant.
- Anti-UV, shock-resistant PC housing; flammability level: UL94V-2.
- Waterproof silicone seal structure.
- Light source using LED technology, long life, low energy consumption, high efficiency.
- Professional EMC design. Anti-electromagnetic interference.
- Wind load level: 240km/h
- Day and night auto switch, can be controlled by local time or photocell.
- Lamp with fault alarm detection and alarm output (NO/NC optional)
- GPS synchronisation function (optional).

Specifications

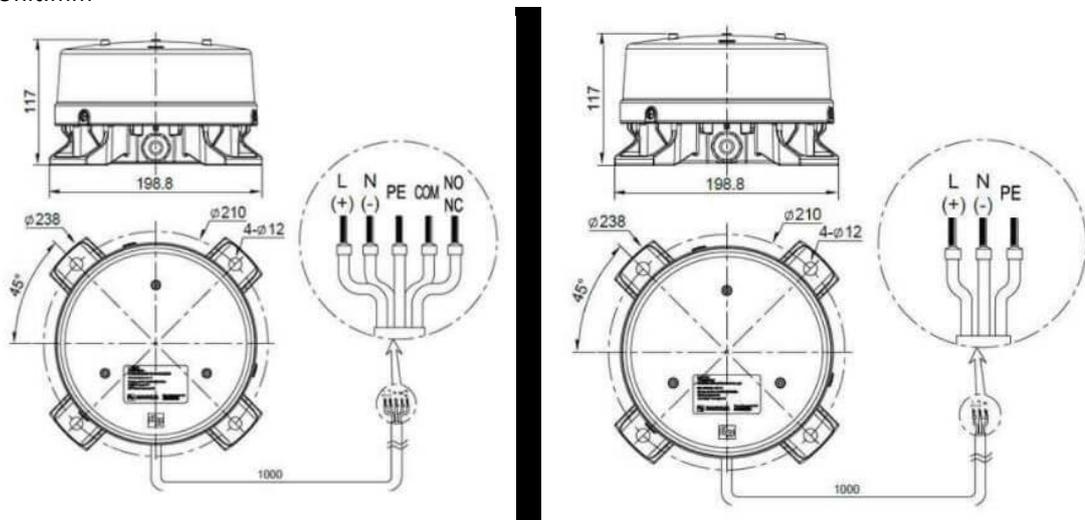
Standard	CAAC MH/T 6012-2015, ICAO ICAO Annex 13 Volume 1, Sixth Edition	Aviation Obstruction Light Aerodrome Design and Operations
Electrical parameters		Mechanical parameters
Input Voltage	AV100V-AC230V / DC48V	Operating temperature
Fault alarm	Dry contact (NO or NC optional)	Ambient humidity
Average Power Consumption	≤16W (40FPM)	Storage temperature
Maximum Power	32W	IP rate
Surge Lighting	IEC61000-4-5 L-L -3kV	Weight
Protection	IEC61000-4-5 L-G -6kV	Wire Connection mode
Electrostatic discharge	IEC61000-4-2 Contact discharge 8kV	
Optical parameter		
Light source	LED	Color
LED lifespan	≥100000h	Work mode
Flashing duration	670ms	
Flash Rate	Night 20/30/40/60FPM, steady burning; Default 40FPM	
Horizontal Beam	360°	
Spread Vertical Beam	≥3°	
Effective Intensity	2000±25%cd	
Photocell On/Off level	50-500Lux	

Installation method of use

- Secure the light on a smooth surface wich has enough strenght, if there is no mounting surface, we cane customize special mounting bracket as request
- Whwn installation, please stay away from the nearby light source, at the same time, ensure the photocell will not be blocked by the near objects (suitable for the type with photocell).
- Make sure the power supply can match the rated power If the light before connecting.
- GPS synchronization test should be in the outdoor environment without any block. Synchronization takes about minutes (Only suitable for the type of synchronization with GPS).
- Acording to the mark on the wiring label of the lamp lead out wire, connect the power cable and then alarm cable correctly, please pay attention to the positive and negative polarity of DC voltage.
- The default factory setting of the flash rate is 40 times/min. If need customized, please inform before when purcasing.

Mounting dimensions

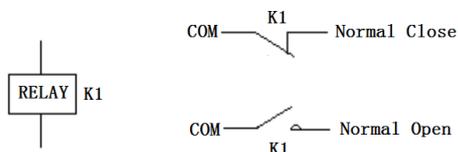
Dimension Unit:mm



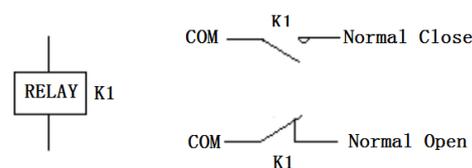
Note: The specific input voltage is based on order
 The specific atarm signal is subject to the order

Fault alarm function

When the lamp is not reciving a power supply or lamp failure: The relay has no action, „common terminal” and „normal close terminal” close as below:



When the lights are connected to the power supply and are working properly: Relay action, „common terminal” and „normal open terminal” close as below:



- If there is no power access, or failure are received „disconnect” signal, the alarm signal line connected to the „common” + „normally open”
- If the „closed” signal is recived when there is no power supply acces or fault, the alarm signal line is connected to „common” + „normal closed”

Note: For the LED fault alarm of the light, please inform the lamp seller at the time of purchase

Fault detection function description

When the light is not operate or When more than 25% of the LED beads are in failure. The lamp will have a fault signal output

Precaution

For the high-power lamp, the surface temperature is high, it cannot be covered. The distance from the object no less than 3m, to avoid burn or fire

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 an industrial alcohol, banana oil, isopropanol, carbon tetra chloride, cyclohexanone and so on, oyerhwise, the product will be corrosion cracking

Ensure the power connection part is correct using The temperature rise when light is in working mode, this is a normal phenomenon.

It with delay judgement about 15s after photocell charge detected and about 10s delay after alarm detected which as normal phenomenon.

Please do not open any components inside by yourself and do not look light horizontal to protect your eyes wile the light working.

Please make sure that the ambient temperature conditions should mach this product. Otherwise, the company will not de quarantee.

Please do nott operate wilt electricity on.