



info@optimaelektronik.com.tr



+90 216 364 09 20



Dudullu OSB 3. Cad. Saraçoğlu İş
Merkezi No:5/37-38 Ümraniye-
İSTANBUL



OPT-008LT DUAL AVIATION WARNING LIGHT WITH SOLAR ENERGY

General Features

Solar Aviation Warning Lights have been designed and manufactured to be used at high points that could be hazardous for aircraft. The system is designed to meet its energy needs from solar panels and battery groups without requiring external energy, ensuring low energy consumption.

It operates for 15 days without sunlight and recharges its battery after 2 days of sunlight exposure. Thanks to the photocell, it automatically activates when it gets dark and deactivates when it gets light.

The OPT-008LT Solar Aviation Warning Lights consists of a solar panel, battery group, luminaire, and battery charging circuit, and the system can be activated with a single cable. To get the system operational, it must be mounted in place and the two cables on the system must be connected to each other.

1-Backup Systems :

The lamps on the luminaire are located on separate arms; the lamp on the first arm operates while the lamp on the second arm remains on standby. If any malfunction occurs in the active lamp, a signal is sent to the lamp on the other arm, activating it within 3 seconds.

2- Simultaneous Systems :

Two lamps on two arms works simultaneously. If one of the lamps fails it does not effect the other lamp.

3-Blink System :

Lamps blinks 20-40 times in a minute.

4-Continuous System :

On this option system works continuously





Solar Panel

The solar panel should be installed facing south in the northern hemisphere and facing north in the southern hemisphere.

In the solar-powered aircraft warning light, the following features can be added upon customer request:

- **Fault Warning Signal:** Alerts the user with a contact output in case of a system error.
- **Auto Control:** When the system is not active (during the day), it checks itself every 10 minutes and alerts the user in case of an error.

Note:

To enable the above features, a cable must be run from the system to the control center.

System Assembly:

System will be mounted to an appropriate tower. M8x60 bolts with nuts will be used.

Certificates

CE Certificate, ISO 9001 Certificate

Maintenance:

No need to maintenance





OPT-008LT DUAL AVIATION WARNING LIGHT WITH SOLAR ENERGY

TECHNICAL SPECIFICATIONS

Standard:	ICAO (Aerodromes Annex 14) ve FAA-L810
Led Count:	132 pieces Ultra Bright Leds
Total Candela:	810.000 mcd
Visibility Range:	10 Km in Dark and clear environment conditions
Visibility Angle:	Horizontal Angle: 360 ° Vertical Angle: <10
Operating Time:	Operates according to the lighting level, does not considers temporary lighting. (for double armature; 2nd light operates when the 1st one breaks down)
Led Life:	100,000 hours
Blink Life:	Lamps blinks 20-40 times in a minute
Battery Voltage in Solar Working:	12V/12 Ah (1 Units)
LED Test:	Exists (Uninterrupted test at night, Once in 10 minutes at daytime)
Alarm Output	Dry Contact Output. Normally Open or Normally Closed(Optional)
Energy consumption:	6~7 Watt/hour
Body Paint:	Ral-7032 Elektrostatik Polyester
Uninterrupted Working by Solar Unit:	4 days and nights with a full charge
Operating temperature:	-55°C ~ +85°C
Protection Class:	IP-66
Light Chamber:	Polycarbonate (Red) resistant to heat, frost and ignition
Solar Panel \ Solar Panel Body:	20W-25W \ Aluminium Casting., Polycarbonate Window
Weight:	12.5 kg
Dimensions:	107cmx29cmx52cm
Warranty:	2 years

