

Solar Aviation Obstruction Warning Light Specifications

This Specifications is for use by REREC on the procurement of design, supply and installation of Steel Towers for power supply to Manda Island. The warning light is to be installed on Towers of height 45m and above to meet the International Civil Aviation Organization (ICAO) requirements.

Flashing red safety light, coupled with the latest LED technology, high grade silicon solar battery module, maintenance-free NiMH battery, the light shall provide over 20 days of continuous operation in continuous rainy and cloudy days. The housing to be in PC and die-casting aluminum alloy base, providing good water tightness. The built-in photocell switches ON&OFF at Dusk and Dawn. The product is to be used in extreme saline environment with up to 100% humidity, shall be shockproof and should withstand the harsh effect of the environment (such as thunder, storm, typhoon and hailstone).

Main functions and features

- Based on LED technology
- Aviation red type
- Base material- Die casting aluminum LM6
- Lamp housing – Polycarbonate with UV resistance
- Bird spike
- Built-in photocell
- Steel wire is used to connect base to housing against falling in operation
- Built in NiMH battery, ease for replacement
- No RF-radiations, EMC Compliant
- Shockproof and corrosion resistance
- Extremely Reliable –Major Maintenance Cost saving
- Very low power consumption – Low Energy Cost
- Automatic battery protection if continuous operation for 18hrs in dark

Specification

- International Standard:	ICAO Annex 14 Vol. 1 Ch.6 Type B Flashing
- LED source:	Medium intensity LEDs
- Intensity:	> 10 - 32cd flashing (*please specify)
- Horizontal Divergence:	360°
- Vertical Divergence :	10°
- Visible distance (atmospheric transparency=0.85) :	> 3.6Km
- Lamp life :	100,000 hrs
- Flash settings :	60time/min
- On/Off level :	70/100Lux
- Autonomy :	> 200 hrs
- Solar Module Type :	Mono –Crystal min. 6W/5V
- Battery Capacity :	3.6V/10AH (Maintenance -- free) NiMH – Environment friendly
- Battery power consumption :	1.8W
- Ambient temperature :	-20°C~80°C
- IP Protection :	IP65
- Weight :	2.3Kg