

LED LOW intensity TNB-1 Aviation Obstruction light



This LED Low-intensity Solar Powered Aviation Obstruction light is adopting insert high efficient solar panels integrated design, cooperate with solar dedicated lithium ion battery as power supply. Built-in photocell ensure LED only working at night and closed in the daytime automatically.

It is designed for marking top of obstacle for aircraft warning.

Compliance

- ICAO Annex 14 Volume 1, Ninth edition, 2022, table 6.3 Low Intensity Type A / B / E Obstruction Light
- FAA L-810

Features

Electrical

- LED as light source, life experience >100,000hours

Physical

- With bird needle to prevent bird drop
- UV & vibrations protected polycarbonate lens for converging light
- Powder coated die casting aluminum base, light fastness, resist snow and rain, salt atmosphere
- Built-in mono crystalline silicon solar panel, conversion efficiency is better than poly crystalline silicon



APPLICATION



APPLICATION

System design

- Built-in photocell (Photo diode) for day & night working mode (dusk to dawn mode)
- ON/OFF button make local control easy

Optional

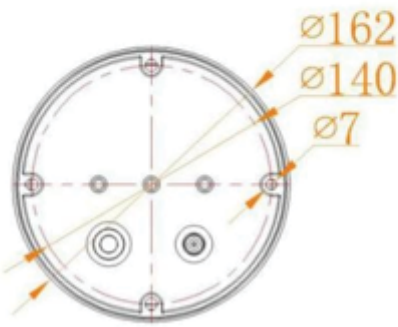
- Infrared LED for pilot using NVG(Night Vision Goggles)
- GPS sync flashing

Application

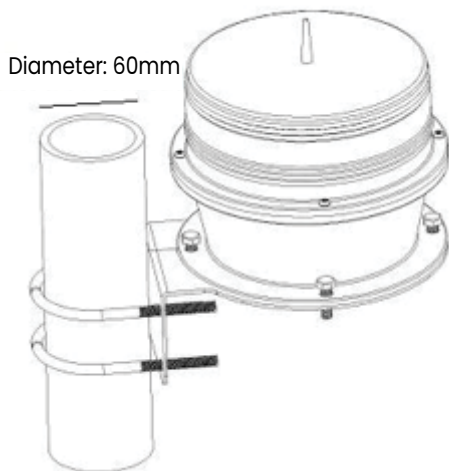
- AH-LS-L solar low-intensity light is specialized used on the top of the High Chimney, Telecommunication tower, Wind Turbine where there is no cable power supply and those facilities which have high requirements on lightning protection.

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Dimension(mm)



Installation



SPECIFICATIONS

Light Characteristics

Light Source	LED
Emitting Color	Red
Intensity(cd)	>10cd
Horizontal Output(degrees)	360
Vertical Divergence(degrees)	≥10
Flash Characteristics	20fpm(steady/other flashing rate is customized)
Operation Mode	Dusk-to-Dawn operation
LED Life Experience(hours)	>100,000

Electrical Characteristics

Operating Voltage	3.7
Circuit Protection	Integrated

Solar Characteristics

Solar Module Type	Mono crystalline Silicon
Charging Regulation	Microprocessor controlled

Battery Characteristics

Battery type	Lithium ion battery
Nominal Voltage (V)	3.7
Battery Service Life	Average 3 years
Autonomy (hours)	Steady: ≥60, Flashing: ≥120

Physical Characteristics

Lamb Body Material	UV protected Polycarbonate
Base Material	Powder-coated Die-casting aluminum
Installation Size	140×140×M6
Overall Size (mm)	162×162×160
Weight(kg)	1
Product Life Expectancy	Average 5 years

Environmental Factors

Ambient Temperature(OC)	-55~70
Humidity	0~100%
Wind Speed	80m/s
Waterproof	IP68

Compliance

ICAO

Annex 14 Volume 1, 'Aerodrome Design and Operations' Ninth edition July 2022, table 6.3
Low-intensity Type A/B/E Obstacle Light
L-810

FAA