

Kalin[®]

(integrating the science and art of light)

AVIATION OBSTRUCTION LIGHT (LED base)

Aviation Obstruction Light (Aircraft warning light) is a high-intensity lighting devices that are attached to tall structures and are used as collision avoidance measures. Such devices make structures more visible to passing aircraft and are usually used at night. These lights need to be of sufficient brightness in order to be visible for miles around the structure.

According **ICAO & DARA**, Selection of the AOL is depending on the height of structure:-
Below 200 feet : low Intensity AOL having 35cd in any direction (red color) is sufficient.
200 to 500 feet : Medium Intensity AOL having at-least 1600cd with flashing to be used.
Above 500 feet : High intensity AOL having 200,000 cd for day time & 2000cd for night is needed, but if the structure is painted with red/white band (as specified by ICAO/DARA), the medium intensity AOL having at-least 2000cd with flashing is acceptable.

Regarding min. Numbers of AOL around circumference of the structure is depending on its diameter as: less than 20'Ø-3 No., 20'-100'Ø-4No., above 100'Ø-6No. per level needed.

Traditionally for AOL, red lamps (or beacons) use **incandescent filament bulbs** or **Xenon/Neon lamp**, but these bulbs have high power consumption and frequent replacement of bulb due to its short life span, which is a very hazardous, expensive & complicated work for such a extreme height like chimneys & towers, and have become a less favoured option.

Now, **KALIN** introducing **LED** (Light Emitting Diode) based Aviation Obstruction Light, having a significantly longer lifespan than conventionally lamp, thus reducing maintenance costs and increasing reliability.



Salient Features Are:

- Multiple segments to avoid complete run down.
- Emitter life ~1,00,000 burning hours (~11years).
- Wide operating voltage range: 150-300Vac.
- Very low power consumption.
- Operating temp: -20 to +80°C.
- Tested by Govt.Test Lab.(NABL approved)

Product Range & Specifications:

SINGLE EMITTER, ABS RED COVER:

Cast alu.(LM-6) housing, weather proof IP-65,painted with corrosion resistant yellow paint, covered by hard ABS red cover dome & sealed with gasket, long life & energy saving LED based lamp, solid state, ultra Red LED, Power:15 / 24W, input voltage:150-300Vac, suitable for low lumens intensity applications. Cat No.: AOL/SE-15 (15w), AOL/SE-24 (24w)



DOUBLE EMITTER, ABS RED COVER

Cast alu.(LM-6) double dome housing, weather proof IP55,painted with corrosion resistant yellow paint, covered by hard ABS red cover, both domes sealed with gasket, long life & energy saving LED based lamp, solid state, ultra Red LED, Power:30w / 48w, input voltage:150-300Vac, suitable for low lumens intensity applications. Cat Par No.: AOL/DE-30(2x15w), AOL/DE-48 (2x24w).



HEAVY DUTY, HARD CLEAR GLASS COVER

Cast alu.(LM-6) housing, weather proof IP65, painted with weather & heat proof yellow epoxy powder coating, covered by transparent borosilicate hard glass, sealed with rubber gasket & retaining metal ring, long life & energy saving, solid state, 7 parallel circuit, ultra bright high glow red LED's, color Red, max power consumption:24W, 235cd, input voltage: 150-300Vac, Suitable for low type-A lumens intensity applications. Cat Par No.:AOL/SE-24



Photo & Data subject to change any time due to improvement in design & manufacturing process.