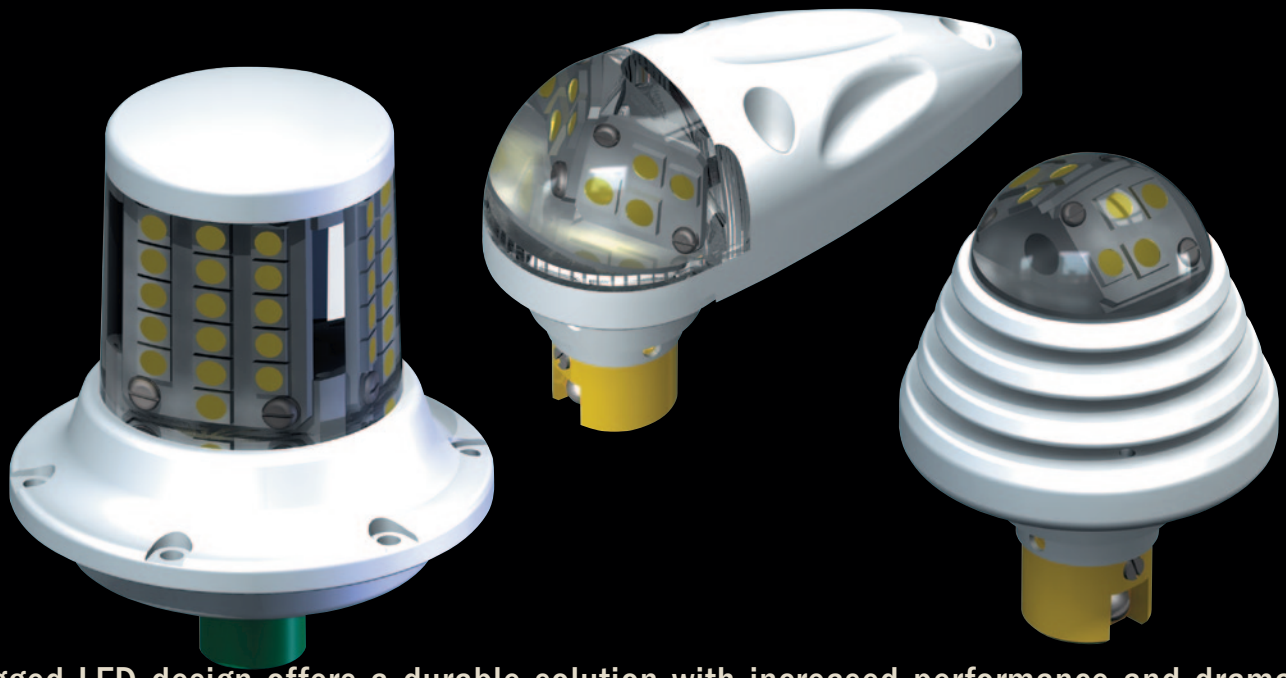
LED

Anti-collision &position lights



Rugged LED design offers a durable solution with increased performance and dramatically reduced power draw. All comply with JAA/EASA & FAA requirements and fit most common aircraft types and bezels sizes. Units offer greatly enhanced light output and long range visibility with nearly “life of the aircraft” reliability thus significantly reducing the need for traditional maintenance and lens replacements.

MAIN TECHNICAL CHARACTERISTICS

- Nominal Input Voltage: 18 – 31.5 VDC
- Total Power Consumption less than 30 Watts (entire aircraft)
- Solid-state Central Control Unit
- Fully Programmable for optimal Flash & Pulse rates
- NVG Friendly

Each unit is driven by the solid-state Central Control Unit which allows numerous programming and control options for each of the lights in the system. This includes:

- ON/OFF,
- Optional Day/Night Brightness Control (system-wide)
- Individual Brightness Control
- Programmable Flash & Pulse cycle times
- Synchronous or alternate flash modes.

Luminous intensity for each of the lighting cells and functions in the horizontal plane is shown in Table 1, and assumes the 100% full bright Daytime mode.

TABLE 1

DIHEDRAL ANGLE (INCLUDING LIGHT)	ANGLE TO THE RIGHT AND LEFT OF THE FORWARD DIRECTED ROLL AXIS, DEGREES	LUMINOUS INTENSITY I, CD
L and R (forward red and green)	from 0 to 10	40
	from 10 to 20	30
	from 20 to 110	5
A (rear white)	from 110 to 180	20

Note – Definitions of L, R, and A dihedral angle are as per 25.1387 AR-25.

Luminous intensity for each of the lighting cells and functions in any vertical plane is shown in Table 2, and assumes the 100% full bright Daytime mode.

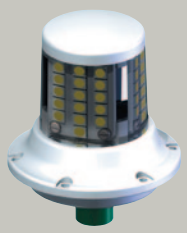
TABLE 2

ANGLE ABOVE OR BELOW HORIZONTAL PLANE, DEGREES	LUMINOUS INTENSITY, CD
0	1,00 I
from 0 to 5	0,90 I
from 5 to 10	0,80 I
from 10 to 15	0,70 I
from 15 to 20	0,50 I
from 20 to 30	0,30 I
from 30 to 40	0,10 I
from 40 to 90	0,05 I

TABLE 3

ANGLE ABOVE OR BELOW HORIZONTAL PLANE, DEGREES	EFFECTIVE LUMINOUS INTENSITY, CD
from 0 to 5	150
from 5 to 10	90
from 10 to 20	30
from 20 to 30	15

The effective luminous intensity of each strobe light in the aircraft vertical plane should be at least the value set forth in Table 3 in the BRIGHT – 100 % mode.



There are two versions of a flashing beacon. The flashing frequency is programmable and may be anywhere within the permitted range of 40 to 100 Hz. The vertical spatial distribution of the flashing beacon luminous intensity is provided in Table 3.

Time parameters of flashing lights are in accordance with parameters specified in Table 4.

TABLE 4

FLASHING COMBINATION NUMBER	NUMBER OF FLASHES PER MINUTE	COMBINATION REPETITION PERIOD, MS	PULSE SEQUENCE IN COMBINATION, MS
1	40	1500	pulse 750 -› pause 750
2	60	1000	pulse 500 -› pause 500
3	40	3000	pulse 500 -› pause 500 -› pulse 500 -› pause 1500
4	60	2000	pulse 300 -› pause 400 -› pulse 300 -› pause 1000
5	40	4500	pulse 500 -› pause 500 -› pulse 500 -› pause 500 -› pulse 500 -› pause 2000
6	60	3000	pulse 300 -› pause 300 -› pulse 300 -› pause 300 -› pulse 300 -› pause 1500
7	90	2000	pulse 300 -› pause 600 -› pulse 100 -› pause 300 -› pulse 100 -› pause 600

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