October 23, 2024

DATASHEET

Low-Intensity Portable Red & IR Obstruction Light

ICAO Low-intensity Type A, Type B and Type E
FAA L-810(F)
Red 10 cd & 32 cd, Infrared 850 nm

OBELUX
AVIATION LIGHTS

Optical characteristics

- 10 cd red and IR
- 32 cd red and IR
- Colour aviation RED
- Fixed or flashing
- Horizontal beam 360°
- Vertical beam > 10°
- Infrared 850 nm
- All models fixed or flashing
- Photocell for Day / Night detection

Specifications met

ICAO International Standards and Recommended Practices: Aerodromes Annex 14 Volume 1, 9th Edition, July 2022, Chapter 6:
Low-intensity Type A (10 cd)
Low-intensity Type B (32 cd)
Low-intensity Type E (32 cd)

Complies with FAA light distribution requirements (FAA L-810, L-810F)

Features

- Corrosion-free materials
- Transparent polycarbonate cover
- Shockproof polycarbonate enclosure
- Photocell

Obelux Low-Intensity Portable (LI-P) is a portable, battery-operated red obstacle light. Optionally, it can emit infra-red light in addition to red light. Obelux LI-P has been designed for outdoor use and has enclosure made of shock-proof polycarbonate.

Obelux LI-P does not require any maintenance apart from cleaning the enclosure and changing the batteries when needed.

Typical operating time with batteries is up to 5 months (operating mode: red 32 cd, flash rate 20 flashes-per-minute, and photocell control is on).

Key Features

- Based on LED technology
- Low-intensity RED fixed and flashing light
- NVG-compliant infrared (IR) light
- GPS synchronization as option
- Integrated photocell for control
- Very low power consumption
- Extremely reliable
- Very long battery lifetime
- Stabilized light output
- Lightweight and small
- External power supply and chaining connectors as options
- 160° / 280° / 360° operating modes
- Microprocessor-control
- Very long maintenance intervals
- Low battery costs
- Easy to handle
- Five (5) years warranty

Electrical characteristics

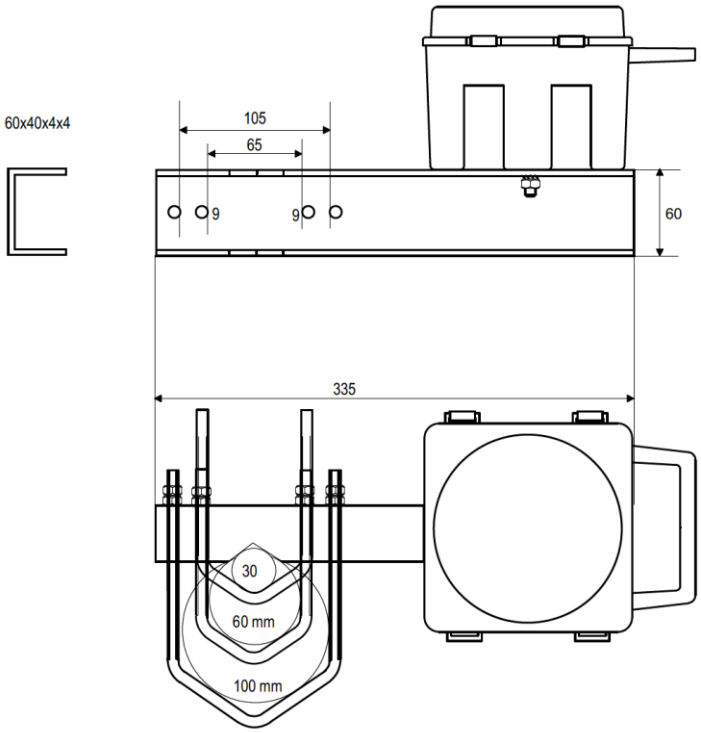
- ► Optimized for Air-Alkaline battery (non-rechargeable)
- ► Nominal operating voltage 12 VDC
- ► Operating voltage range 10-16 VDC

Mechanical characteristics

- ► Operating temperature range: -40 °C ...+55 °C
- ► Dimensions (LxWxH): 210 mm x 175 mm x 135 mm
- ► Weight with 4 Air-Alkaline batteries: 4 kg
- ► Degree of protection: IP65 (Ventilation: IP43)

Vertical mounting set

Vertical mounting kit available from factory.

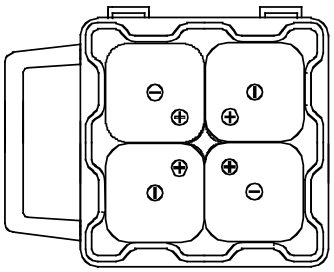


Switchable options

- Photocell control on/off
- Photocell threshold 800 lux or 1600 lux
- Horizontal beam 160°, 280° or 360°
- Flash rate steady, 20 fpm, 40 fpm or 60 fpm
- Infrared power output 50 mW/sr or 100 mW/sr
- Infrared output can be set to steady 100 mW/sr

Batteries

- Air alkaline batteries (non-rechargeable)
- Nominal voltage 6 V, capacity 50 Ah
- Environmentally friendly, no toxic materials
- Dimensions 67 mm x 67mm x 98/108 mm (L x W x H)
- Full capacity configuration is 4 batteries (12 V, 100 Ah) as shown in the illustration below:



Estimated operating time

Estimated operating time with recommended batteries Using GPS shortens estimated operating time approx. 8 %.				
Beam	10 cd red	32 cd red	10 cd red & 50 mW/sr IR	32 cd red & 50 mW/sr IR
160°	7500 h (310 days)	2500 h (104 days)	5250 h (218 days)	2000 h (83 days)
280°	3300 h (135 days)	1100 h (45 days)	2310 h (96 days)	880 h (36 days)
360°	2100 h (87 days)	700 h (29 days)	1470 h (61 days)	560 h (23 days)

Order codes

Without mounting set	With vertical mounting set	Description
LI-P	LI-P-V	Portable obstruction light, red
LI-P-G	LI-P-G-V	Portable obstruction light, red, GPS
LI-P-IR	LI-P-IR-V	Portable obstruction light, red, infrared
LI-P-IR-G	LI-P-IR-G-V	Portable obstruction light, red, infrared, GPS
EL-IP-6V	EL-IP-6V	Non-rechargeable air alkaline battery, 6 V, 50 Ah

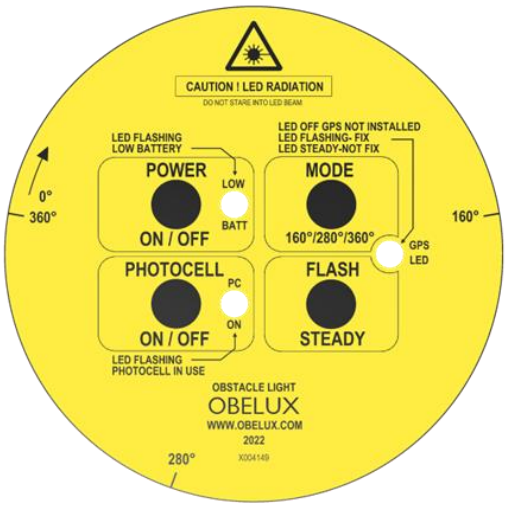
Models with connectors for external power supply and chaining are available on request.
Contact your OBELUX sales representative for further details and lead time.

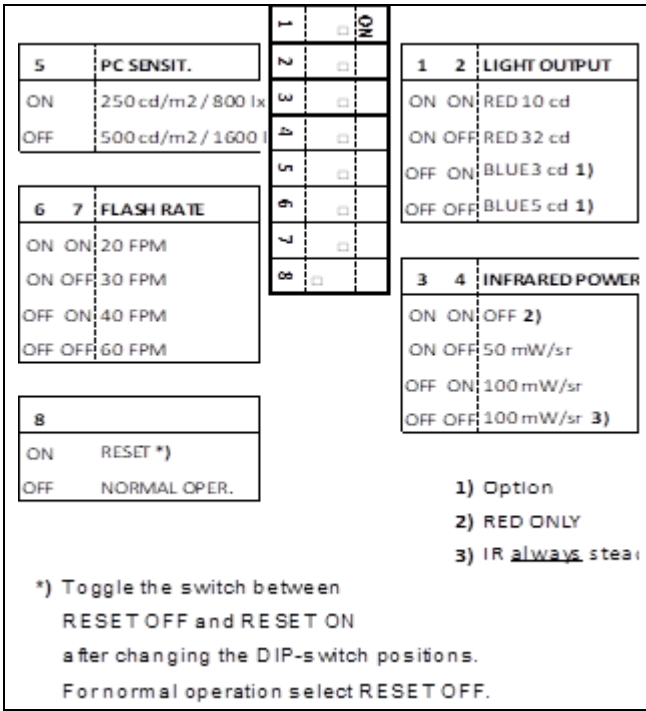
INSTALLING AND USING OBELUX LI-P

OBELUX LI-P portable aviation obstruction light has been optimized for use on 4 pcs non-rechargeable Air-Alkaline batteries with their nominal operating voltage of 6 V, 50 A. After the batteries have been inserted and the cover closed, the following default settings are active:

POWER	ON
OPERATING MODE	360°
PHOTOCELL CONTROL	ON
FLASH	OFF (STEADY BURNING)

The settings can be easily changed from the control panel on the cover of the light. When the light is switched off, the latest settings are stored into the volatile memory of the light. When the cover is opened again, the factory-default settings are restored.

OBELUX LI-P	**POWER ON / OFF PUSHBUTTON**
	When ON, light outputs are enabled. **PHOTOCELL ON / OFF PUSHBUTTON** Sets photocell control on or off. When enabled, at the dusk, the light turns on after 5 seconds delay and at the dawn, it turns off after 3 minutes delay. **MODE 160° / 280° / 360° PUSHBUTTON** Sets horizontal radiation beam. **FLASH ON / OFF PUSHBUTTON** Enables flashing (Type E) in 32 cd mode. **LOW BATT INDICATOR LED** Red, indicates low battery voltage. **PC INDICATOR LED** Flashing yellow, indicates photocell control is active. **GPS INDICATOR LED** Steady yellow, GPS module has acquired fix. Flashing yellow, GPS module is waiting for fix. Blank, no GPS module installed.



DIP switch settings (accessible inside product)