

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

CEL Low-Intensity Portable (LI-P) is a portable, battery-operated red obstacle light. The light has been designed for outdoor use and has an enclosure made of shockproof polycarbonate. It does not require any maintenance apart from cleaning the enclosure and changing the batteries when needed. The operating time of the batteries up to 4-5 months (operating mode: RED 32cd, flash rate 20 FPM, photocell on).



Specifications met

ICAO International Standards and Recommended Practices: Aerodromes Annex 14 Volume 1, 8th Edition, July 2018, Chapter 6:
Low-intensity Type A, Low-intensity Type B, Low-intensity Type E.

CEL-10-12-P-IR Portable Obstacle Light

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

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
- 5-year warranty

Photocell characteristics

- High Accuracy
- User selectable switching threshold
800 lux / 1600 lux / always on

Other

- Corrosion and oxidation free materials
- Transparent polycarbonate cover
- Yellow shockproof polycarbonate enclosure
- Degree of protection: IP45

Standard Batteries

- Air-Alkaline batteries (non-rechargeable)
- Environmentally friendly, non toxic materials
- Dimensions 67mm x 67mm x 98/108mm (L x W x H)
- Nominal voltage 6V
- Capacity 50Ah
- Half capacity configuration: 2 batteries (total 12V 50Ah)
- Full capacity configuration: 4 batteries (total 12V 100Ah)

Options:

- External power supply / charging and chaining connectors
- FAA L-810 -type (32cd) Obstacle Light
- 5Ah rechargeable Lead Acid batteries
- Radio remote control
- Blue taxiway edge light

RED light: Specifications met

- ICAO Annex 14 Volume 1, 5th edition July 2009 Table 6-3, Low-intensity, Type A (fixed obstacle) obstacle light
- ICAO Annex 14 Volume 1, 5th edition July 2009 chapter 7, lighting for unserveable areas.

RED light: Photometric characteristics

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



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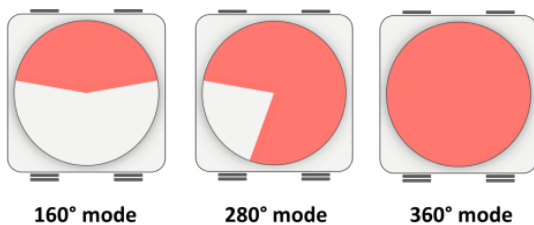
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Order codes

Part Low-intensity portable	Description
CEL-LI-P	Obstacle light, Red, Portable
CEL-LI-P-G	Obstacle light, Red, Portable with GPS
CEL-LI-P-IR	Obstacle light with infra-red
CEL-LI-P-IR-G	Obstacle light with infra-red and GPS
CEL-EL-IP-5-6V	Air-Alkaline battery 6V 50Ah

Options: GPS (G), External power supply / charging and chaining connectors (E), Blue taxiway edge light (B), Vertical mounting set (V), Other colors: e.g. blue, green, yellow, white or orange light



160° mode

280° mode

360° mode

Electrical characteristics

- Optimised for Air-Alkaline battery (non-rechargeable)
- Nominal operating voltage 12 VDC
- Operating voltage range 10 - 16 VDC
- Continuous operating time 1500 / 750 / 375 h (160° / 280° / 360° mode)

Mechanical characteristics

- Operating temperature range: -40...+55 °C
- Dimensions (LxWxH): 210mm x 175mm x 135mm
- Weight with 4 Air-Alkaline batteries: 4 kg
- Degree of protection: IP45

Battery characteristics

- Air-Alkaline batteries (non-rechargeable)
- Environmentally friendly, no toxic materials
- Dimensions 67 x 67 x 98/108 (L x W x H)
- Nominal voltage 6 V
- Capacity 50 Ah
- Full capacity configuration: 4 batteries (12 V, 100 Ah)

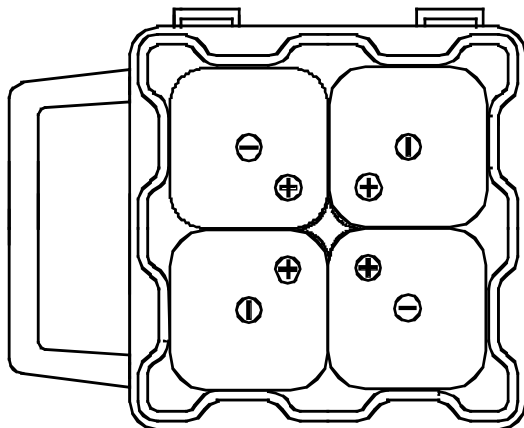
INSTALLING BATTERIES

LI-P has been optimized for use on Air-Alkaline batteries with a nominal operating voltage of 6 V, 50 Ah. The batteries are installed as shown in the figure.

After the batteries have been inserted and the cover closed, the following default settings are active:

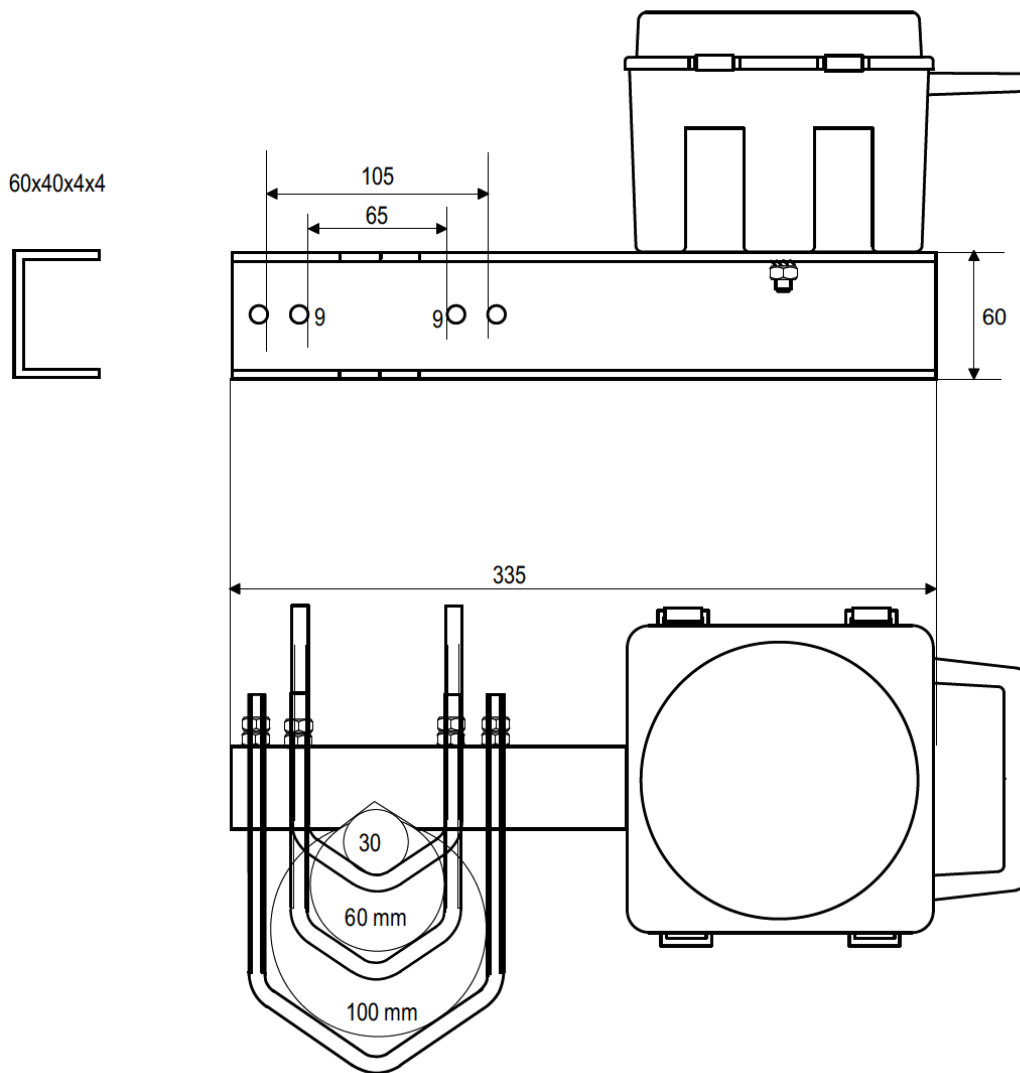
- POWER: **ON**
- MODE: **360°**
- PHOTOCELL: **ON**
- FLASH: **OFF**

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 memory of the light. When the cover is opened again, the default settings are restored.



Battery configuration

Mounting Bracket



Dimensions