



Portable 12VDC ICAO Low-intensity, Type A Obstacle Light and FAA Type L-461T Taxiway Edge Light

CEL-10-12-P-RB-CST

Key features

- Extremely reliable
- Very low power consumption
- 10cd red and 2cd blue steady burning lights
- Very long battery life time
- Stabilised light output
- Photocell control
- Lightweight and small
- External power supply- and chaining connectors as option
- Extremely reliable
- 100° / 200° / 360° operating modes
- Microprocessor control

Benefits

- Very long maintenance intervals
- Low battery costs
- Easy to handle

RED 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 unserviceable areas.

RED-Photometric characteristics

- Intensity > 10cd (14 cd typical)
- Colour aviation red
- Horizontal radiation pattern 100°, 200° or 360°
- Vertical radiation pattern +37°, -7°, aiming angle +14°
- Current for the LEDs is stabilised by constant current generator
- Expected LED lifetime 100,000hrs of operation

Photocell characteristics

- High Accuracy
- User selectable switching threshold 150 lux / 400 lux / always on
- Turn on delay 3 s
- Turn off delay 300 s
- Power consumption <0,05W

RED-Electrical characteristics

- Optimised for Air-Alkaline battery
- Nominal operating voltage 12VDC
- Power consumption <1W/<2W /< 3W (100°/200°/360° mode)
- Operating voltage range 7.5 ... 18VDC
- Continuous operating time max. 1000 / 500 / 250 h (100° / 200° / 360° mode)

BLUE Specifications met

- ICAO Annex 14 Volume 1.5th edition July 2009 chapter 5.3.17, taxiway edge lights.
- FAA AC 150/5345-468, L-461T taxiway edge.

BLUE-Optical characteristics

- Two intensity steps Full >2cd (3cd typical) and half 1.5cd typical
- Colour aviation blue
- Horizontal radiation pattern 100°, 200° or 360°
- Vertical radiation pattern +37°, -7°, aiming angle +14°
- Current for the LEDs is stabilised by constant current generator
- Expected LED lifetime 100,000hrs of operation



CEL-10-12-P-RB-CST Portable Obstacle Light

BLUE-Electrical characteristics

- Optimised for Air-Alkaline battery
- Nominal operating voltage 12VDC
- Power consumption <0.3 / <0.6 / <0.9W (100° / 200° / 360° mode)
- Operating voltage range 7.5 .. 18VDC
- Operating time max 2000 /1000 /500hrs (100° /200° /360° mode)

Other

- Corrosion and oxidation free materials
- Uncoloured PC cover
- Yellow shock resistant PC enclosure
- Yellow reflective tapes on each side
- Degree of protection: IP45
- Operating temperature range: -55 .. +55°C
- Dimensions (LxWxH): 185mm x 175mm x 135mm
- Weight with 4 pcs Air alkaline battery 4kg
- 5 year warranty

Standard Batteries

- Self-regenerating AIR-ALKALINE batteries (non rechargeable)
- Environmental friendly, non toxic material
- Spring Connector type.
- Dimensions 67mm x 67mm x 98/108mm (L x W x H)
- Nominal voltage 6V
- Capacity 50Ah
- Battery configuration: 4 batteries (total 12V 100Ah)

Order codes

- Obstacle Light: **CEL-10-12-P-RB-CST**
- Air-Alkaline Battery: **EL-IP-5-6V**

Options:

- External Power Supply / Charging and Chaining Connectors
- FAA L-810 -type (32cd) Obstacle Light
- 5Ah rechargeable Lead Acid batteries
- Radio Remote Control
- Other light Colors: Eg. Green, Yellow, White, Orange



T: +44 (0)20 8540 1034
F: +44 (0)20 8543 3058
E: info@contarnex.com

Contarnex Europe Limited
252 Martin Way,
Morden, Surrey SM4 4AW
United Kingdom

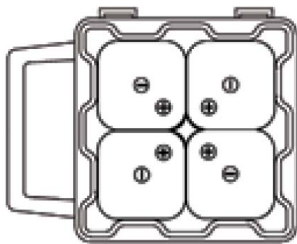


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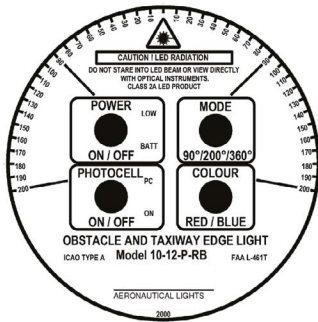
CEL-10-12-P-RB-CST



CEL-10-12-P-RB



Four-battery configuration



CEL-10-12-P-RB Light Control Panel



OVERVIEW

CEL-10-12-P-RB is a portable, battery-operated red/blue light. The light has been designed for outdoor use and has an enclosure made of shockproof polycarbonate. It does not require any maintenance other than cleaning the enclosure and changing the batteries when needed. The operating time of the batteries depends on the operating mode selected and varies between 4 to 8 weeks.

INSTALLING BATTERIES

CEL-10-12-P-RB has been optimized for the use of Air-Alkaline batteries with a nominal operating voltage of 6V, 50Ah. The batteries are installed as shown below.

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

POWER	ON
MODE	90°
PHOTOCELL	OFF
COLOUR	RED

The settings can be easily changed from the control panel on the cover of the light. When the light is switched off, the currently active settings are stored into the light's memory. When the cover is opened again, the default settings are restored.

CONTROL PANEL SWITCHES

1. POWER ON / OFF

When switched OFF, the current consumption of the light is only 0.4mA (3.4Ah / year), which enables the lights to be stored with the batteries installed. The red LOW BATT indicator light starts flashing when the battery voltage decreases below 7.8V. A voltage level that low also means that the light output level starts decreasing.

2. MODE 90° / 200° / 360°

For selecting the horizontal radiation pattern. For example, when marking runway ends at airports, narrow radiation patterns can be selected and, consequently, the light's operating time extended.

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CST - Mounting Bracket Dimensions

