

24V_{DC} MOD compatible IR (Infrared) Obstruction Light

CEL-IR850-24-CST - LED Aircraft Warning Light

Application

Night vision goggles compatible 850nm infrared obstruction light for wind turbines and other vertical structures that cause aviation safeguarding concerns

Key features

- Based on LED technology
- Extremely reliable
- Very long life time
- Low power consumption
- 24V_{DC} operating voltage
- Stabilised light output
- Easy to install
- Mounting set and terminal box included

Benefits

- Long maintenance intervals
- Low energy costs
- Input power voltage variations do not affect to light output
- Very low lifetime costs

Specification met

MOD Obstruction Lighting Guidance, Low Flying Operations Sqn (MOD CAS-AS LFOS) - 21 Nov 2014

Radiometric characteristics IR

- Typical intensity 300mW/sr, Peak 600mW/sr
- Colour Infrared 850nm
- Horizontal radiation pattern 360°
- Vertical radiation pattern -15° ... +30°
- Current for the LEDs is stabilised by constant current generator
- Expected lifetime without light output falling 25% >100,000hrs

Electrical characteristics

- LEDs are in several separate groups
- Nominal operating voltage 24V_{DC}
- Operating voltage range 22 ... 28V_{DC}
- Power consumption 15W (<0.6A constant current)
- Average power consumption with 60fpm, 250ms flashing mode <3.8W



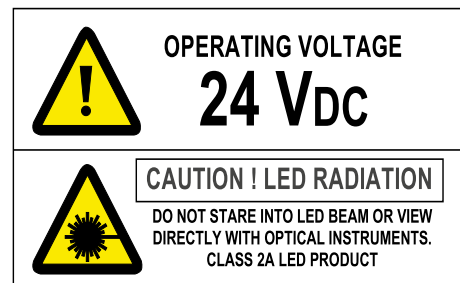
Mechanical characteristics

- Black anodised aluminium light unit body
- Galvanised mounting arm
- Acid proof U-bolts and hex nuts
- Uncoloured glass cover
- Degree of protection IP65
- Operating temperature range -55 ... +55°C
- Height 170mm, diameter 140mm
- Total weight with mounting set 3.2kg
- 5 year warranty

Order Code: CEL-IR850-24-CST

Options

- CSW-24-16-GPS, flash controller and fault monitoring unit with GPS-synchronisation



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CEL LED obstacle lights cabling and installation principles are similar to those of conventional obstacle lights, the only exception being the correct polarity required by DC feed.

Terminal box include screw terminals and overvoltage protectors.

All connection alternatives can be protected with a 6A or 10A fuse or with a circuit breaker (C curve).

Installation specifications

- Cable gland for lamp: M20, 8-13mm cable
- Cable gland for IN and OUT: M25, 11-17mm cable
- Wire diameter: max. 6mm²
- Recommended cable: 3 x 1.5 or 3 x 2.5mm²

The polarity is:

- Blue -
- Black +
- Yellow-Green PE

