

**12 Vdc Combo: NVG compatible Infra-Red and Red Obstacle Light****Application**

Night vision goggles compatible 850 nm infra-red and visible red combo obstruction light for wind mills and other aviation obstacles

**Key features**

- Based on LED technology
- Combo IR and Red led light
- IR and Red light can be Controlled separately
- Extremely reliable
- Very long life time
- Low power consumption
- 12 Vdc 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 CAS-AS LFOS, WITT/605/LFOPS, 17 Dec 10

**Radiometric characteristics IR**

- Typical intensity 300 mW/sr
- Wavelength Infrared 850 nm
- 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% >100 000 h

**Optical characteristics Red**

- Intensity >40 cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 0°...+15°
- Current for the LEDs is stabilised by constant current generator
- Expected lifetime without light output falling 25% >100 000 h

**Electrical characteristics****IR**

- Nominal operating voltage 12 Vdc
- Operating voltage range 11.5...18 Vdc
- Power consumption <15,5 W (< 1,3 A constant current)
- Average power consumption with 60 fpm, 250 ms flashing mode <3,8W

**Red**

- Nominal operating voltage 12 Vdc
- Operating voltage range 11.5...18 Vdc
- Power consumption <5 W (< 0,4 A constant current)
- Average power consumption with 60 fpm, 250 ms flashing mode <1,2W

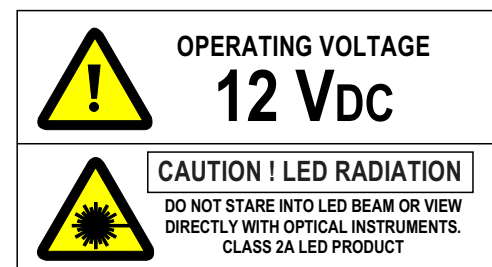
**Mechanical characteristics**

- 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 200 mm, diameter 140 mm
- Total weight with mounting set 3.4 kg
- 5 year warranty

**Order Code: Obelux IR850-R-012-CST**

**Options**

- CSW-12-16-GPS, flash controller and fault monitoring unit with GPS-synchronisation



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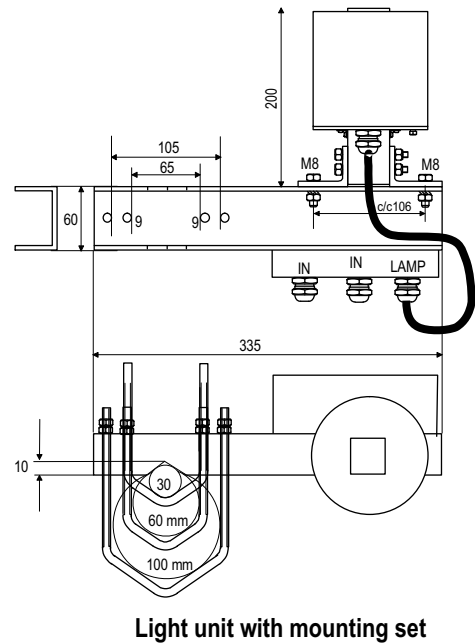
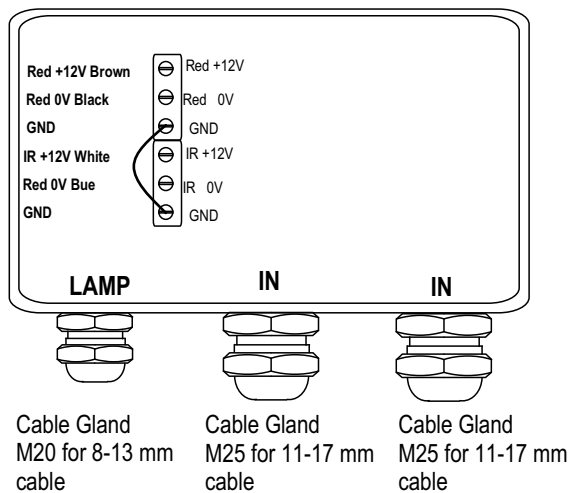
Obelux LED obstacle lights cabling and installation principles are similar to those of conventional obstacle lights, the only exception being the correct polarity required by DC feed.

Terminal box include screw terminals and overvoltage protectors.

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

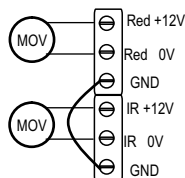
**Installation specifications**

- Cable gland for lamp: M20, 8-13 mm cable
- Cable gland for IN T: M25, 11-17 mm cable
- Wire diameter: max. 6 mm<sup>2</sup>
- Recommended cable: 3 x 1.5 mm<sup>2</sup>, 3 x 2.5 mm<sup>2</sup>  
5 x 1.5mm<sup>2</sup> or 5 x 2.5 mm<sup>2</sup>



**Over voltage protectors**

**Metal Oxide Varistor**  
4.5 kA (8/20 us)



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