

## IR850-R-012-CST - INFRARED LED OBSTRUCTION LIGHT

### 12V<sub>DC</sub> Combo NVG compatible Infra Red Obstruction Light - UK Onshore Windfarms

#### Application

Night vision goggles (NVG) compatible 850nm infra red obstruction light approved for UK wind turbines and similar vertical assemblies when such structures are built within MOD low flying tactical training airspace.

#### Key Features

- Based on LED technology
- Extremely reliable
- Very long life span
- Low power consumption
- 12V<sub>DC</sub> 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 the light output
- Very low lifetime costs

#### Optical Characteristics IR

- Typical intensity 600mW/sr
- Colour Infrared 850nm
- Horizontal radiation pattern 360deg
- Vertical radiation pattern -15deg / +30deg
- LED supply current stabilised by constant current generator
- Light output degradation less than 25% after 100,000h

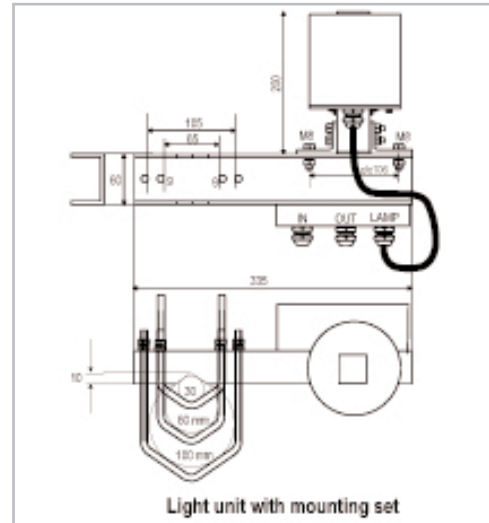
#### Optical Characteristics Red

- Intensity >40cd
- Colour aviation red
- Horizontal radiation pattern 360deg
- Vertical radiation pattern 0deg to + 15deg
- Current for the LED's is stabilised by constant current generator



#### Options

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



**CAUTION ! LED RADIATION**

DO NOT STARE INTO LED BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. CLASS 2A LED PRODUCT



OPERATING VOLTAGE  
**12 V<sub>DC</sub>**

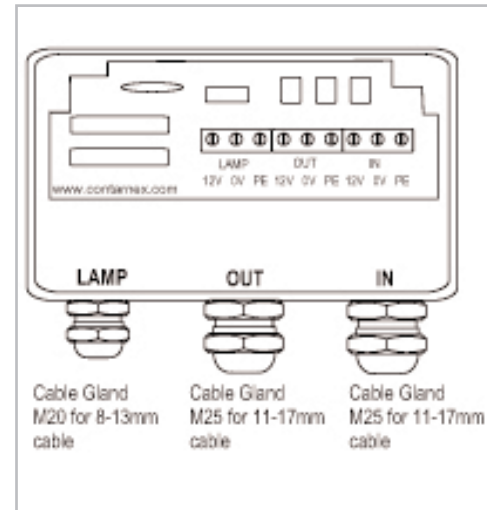
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### Electrical Characteristics

- One power input supply both IR and Red sections
- Nominal operating voltage 12V<sub>DC</sub>
- Power consumption <15.5W (<1.3A constant current)
- Average power consumption with 60fpm, 250ms flash flashing mode <5.5W

### Mechanical Characteristics

- Black anodised aluminium light body parts
- Galvanised mounting arm
- Acid proof U bolts and hex nuts
- Uncoloured glass cover
- Degree of protection IP 65
- Operating temperature range -55° to + 55°C
- Height 170mm, diameter 140mm
- Total weight with mounting set 3.4Kg
- 5 year warranty



### Installation Specifications

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

