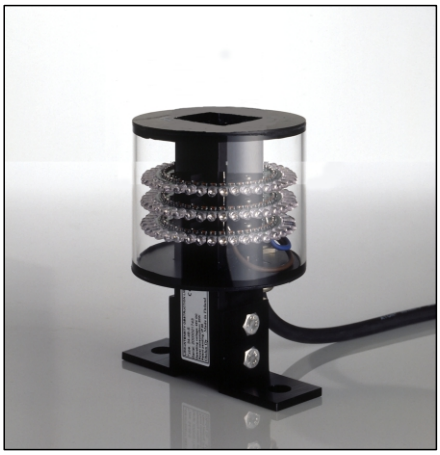
48 VDC NVG compatible Infra-Red Obstacle Light (Preliminary)

Application
Night Vision Goggles compatible 850 nm infrared flashing obstruction light with PCFL or CSW for wind mills and other aviation obstacles



NB: Only for illustration

Key features
- Designed for use with external flash controller
- Based on LED technology
- Extremely reliable
- Very long life time
- Low power consumption
- 48 VDC operating voltage
- Stabilized 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

Spesification met
MOD CAS-AS LFOS, WITT/605/LFOPS, 17 Dec 10

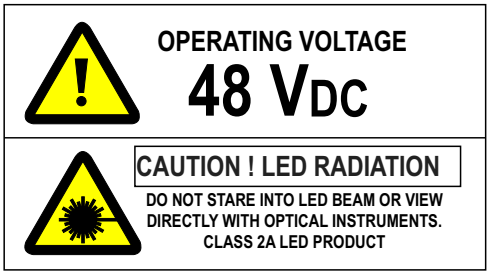
Radiometric characteristics IR
- Typical intensity 300 mW/sr
- Colour Infrared 850 nm
- Horizontal radiation pattern 360º
- Vertical radiation pattern -15º...+30º
- Current for the LEDs is stabilized by constant current generator
- Expected lifetime without light output falling 25 % >100 000 h

Electrical characteristics
- LEDs are in several separate groups
- Nominal operating voltage 48 VDC
- Operating voltage range 44 VDC ... 54 VDC
- Power consumption 15 W (< 0.4 A constant current)
- Average power consumption with 60 fpm, 250 ms flashing mode < 4 W

Mechanical characteristics
- Black anodized aluminium light unit body
- Galvanized mounting arm
- Acid-proof U-bolts and hex nuts
- Uncoloured glass cover
- Degree of protection IP 65
- Operating temperature range –55ºC...+55ºC
- Height 170 mm, diameter 140 mm
- Total weight with mounting set 3.3 kg
- 5 years warranty

Order Code: Obelux IR850-048-CST
(NB: This is a preliminary product datasheet)

Options
- PCFL-DC1-TB
  Photocell and flash controller unit
- CSW-DCW-8+2-F
  Photocell, flash controller and fault monitoring unit



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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.

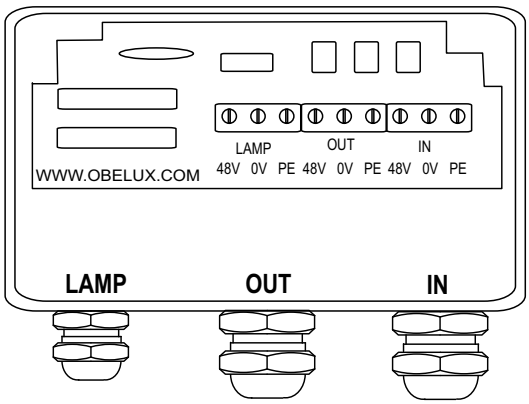
Terminal box include screw terminals and over-voltage protectors.

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 and OUT: M25, 11-17 mm cable
- Wire diameter: max. 6 mm^2
- Recommended cable: 3 x 1.5 mm^2 or 3 x 2.5 mm^2

The polarity is:

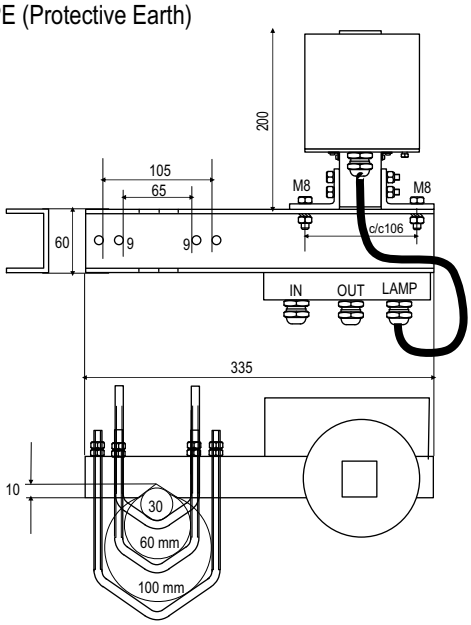
Blue - (negative supply voltage)
Black + (positive supply voltage)
Yellow/Green PE (Protective Earth)



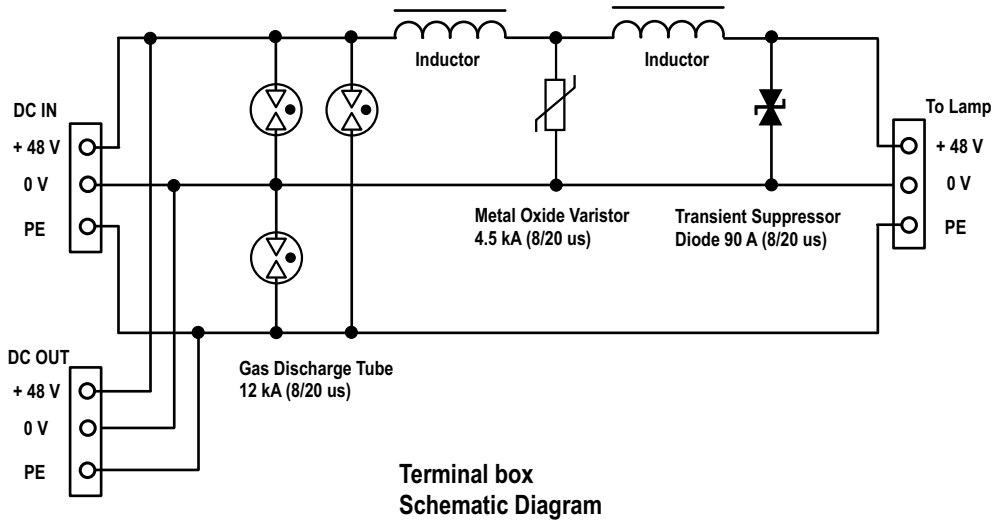
Cable Gland M20 for 8-13 mm cable

Cable Gland M25 for 11-17 mm cable

Cable Gland M25 for 11-17 mm cable



Light unit with mounting set



Terminal box
Schematic Diagram

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