

# LS8645

Medium intensity LED  
obstruction light  
(Red/White)

## Compliant to Latest International Standards

- ▶ ICAO Aerodromes - Annex 14 Vol.1, Ch. 6:  
Medium intensity, Type AB/AC
- ▶ FAA AC150/5345-43 E.B. #67 Lamp type Dual  
L-864/L-865
- ▶ EASA Aerodromes Design - CS-ADR-DSN
- ▶ DGAC / STAC
- ▶ ENAC

## Applications

Medium Intensity Obstruction Lights (MIOL) should be used to warn the presence of obstacles with an height between 45m and 150m



The LS8645 Medium Intensity Obstruction Light is compliant to ICAO and EASA (Medium Intensity - Type AB and AC), FAA (Type L-864/L-865) and ENAC certified. With a compact body, high quality and ultra-bright LEDs, customized lenses and patented shape for optimum light emission and beacon cooling, this product is the most up-to-date and technologically advanced Aircraft Warning Light.

This LED device is designed to not contain any electronic component (that is available in a separate control local panel): a huge advantage in terms of increased life-time and suitability to all environments (beacons can stand extreme weather conditions) and in terms of an easy maintenance (in case of maintenance or periodic checks on electronic components, these can be done at ground or easily accessible levels).

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## Features

According to Annex 14 of ICAO regulations, Medium Intensity Obstruction Lights (MIOL) should be used to warn the presence of obstacles with an height between 45m and 150m, such as telecommunication towers, wind turbines, chimneys, cranes, buildings and other structures.

Medium Intensity Obstruction Lights include three type of beacons, with different characteristics and uses:

- MIOL, Type A (intensity 20.000cd, day-mode white flashing; 2.000cd, night-mode white flashing) should be used alone;
- MIOL, Type B (intensity 2.000cd, night-mode red flashing) should be used either alone or in combination with Low Intensity Obstacle Lights, Type B or Type E;
- MIOL, Type C (intensity 2.000cd, night-mode red steady burning) should be used either alone or in combination with Medium Intensity Obstacle Lights, Type AC.

The LS8645 offers DUAL type beacons in the same light fixture, suitable to be used during the day (with white LEDs) and during the night (with red LEDs); these beacons are:

- DUAL MIOL, Type AB (intensity 20.000cd, day-mode white flashing; 2.000cd, night-mode red flashing) should be used in combination with Low Intensity Obstacle Lights, Type B or Type E;
- DUAL MIOL, Type AC (intensity 20.000cd, day-mode white flashing; 2.000cd, night-mode red steady burning) should be used in combination with Medium Intensity Obstacle Lights, Type C.

# LS8645

Medium Intensity LED obstruction light  
solutions (Red/White)



## Electrical Performance

- Power supply by remote control panel (see dedicated datasheet for panel):
  - 24 VDC;
  - 48 VDC;
  - 115/230VAC;
  - Other power supply range available;
- Average power consumption:
  - @20fpm day mode: 45W (Miol-AB/Miol-AC)
  - @20fpm night mode: 10W (Miol-AB)
  - @40fpm day mode: 110W (Miol-AB/Miol-AC)
  - @40fpm night mode: 12W (Miol-AB)
  - @60fpm day mode: 160W (Miol-AB/Miol-AC)
  - @60fpm night mode: 16W (Miol-AB)
  - night mode (steady burning) Miol-AC: 50W
- LED feeded at constant current
- No RF-radiations
- Range section of connectable conductors:  
0,5mm<sup>2</sup> to 2,5mm<sup>2</sup>
- Cable outer diameter range: 7mm to 14mm

## Options

- Cloud Monitoring System
- TWIN version: two separate LED circuits in the same fixture (normal + stand-by)
- IR Wavelength - 850nm

## Mechanical Features

- Anodised aluminium body, painted RAL7035
- Borosilicate glass cover protection
- Silicon rubber, VMQ
- Base wind collector and internal heat sink for optimum cooling
- Degree of protection: IP66
- Anti-condensation Gore-Tex valve
- Operating temperature: -30 °C to +50 °C
- Lamp unit weight: 7kg
- SS304 beacon support bracket
- Equipped with separate control box for beacon power supply same fixture (normal + stand-by)

## Optical Features

- Based on LED technology
- 20.000cd day mode, WHITE light
- 2.000cd night mode, RED light
- Cd emission @ -0,5 and +4
- Horizontal beam radiation: 360
- Vertical beam spread: 4
- PMMA lens
- Light output alignment device

## Environmental Conditions

- |                       |                |                        |                            |
|-----------------------|----------------|------------------------|----------------------------|
| ▶ Ambient Temperature | -20°C to +45°C | ▶ Atmospheric Altitude | up to 10,000 feet ( 3000m) |
| ▶ Storage Temperature | -35°C to +75°C | ▶ Relative Humidity    | 0-100% (sealed unit)       |

Applications	
Air Traffic Control towers (ATC)	Radio and television tower
High buildings	Wind Turbines
Chimney	Tower crane
Pipelines	Radars
Bridges	Antennas
Power transmission pylons	Wind / weather measuring stations

# LS8645

Medium Intensity LED obstruction light solutions (Red/White)



Ordering Codes: LS 8645-200

## Application

Medium Intensity Obstruction light

## Beam Type

AB = Dual Flashing White/Red

AC = Dual White flashing / Red steady

## Unit Type

T = Twin

S = Single

## Unit Type

1 = 180°

2 = 360°

## Controller

R = Remote unit

## Mounting

S = Side

B = Base

## Light

S = Standard

I = Dual + infra red



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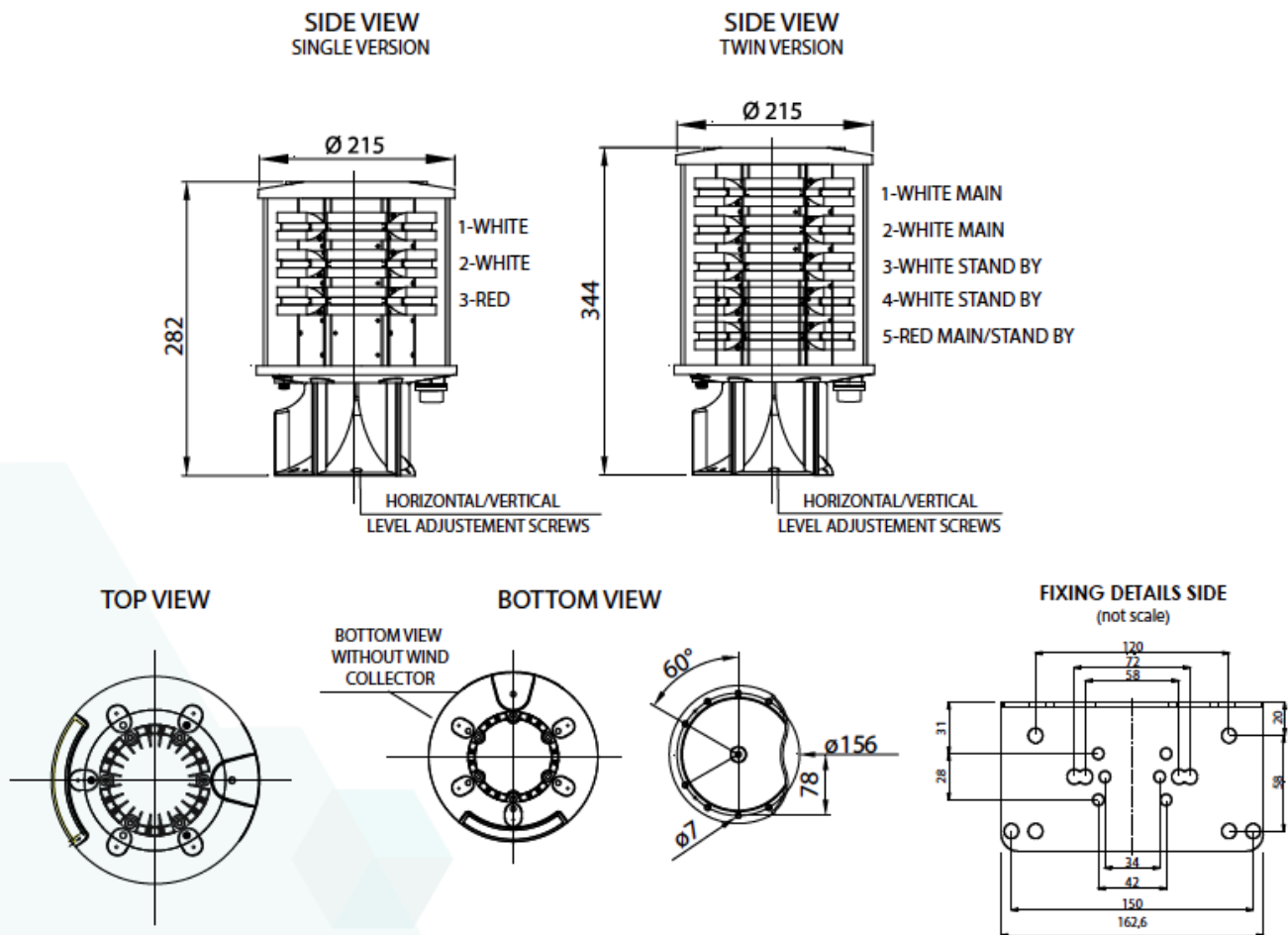
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## Dimensions



## Packaging

- ▶ Net weight 6.0Kg
- ▶ Gross weight 6.4 (boxed)
- ▶ Box 225mm (L) x 225mm (W) x 250mm (H)

weights and dimensions are nominal



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