

# Medium-Intensity Aviation Light

ICAO Medium-Intensity Type A 20 000 cd  
ICAO Medium-Intensity Type B/C 2 000 cd

**OBELUX**  
AVIATION LIGHTS

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## Optical characteristics

- ▶ 20 000cd WHITE / 2 000cd WHITE
- ▶ 20.000cd WHITE / 2.000cd RED
- ▶ RED configurable for 200cd
- ▶ Colour aviation WHITE and RED
- ▶ NVG compliant infrared (850nm) as an option
- ▶ Horizontal beam 360°
- ▶ Vertical beam >3°



## Medium-Intensity White and Red Dual or White only LED Aviation Obstruction Lights

Obelux Medium-Intensity stand-alone 20 000 cd White and Red Dual model or White only model are used for marking tall structures, such as wind turbines, transmission masts, chimneys, broadcast masts, etc. The product offers unique features such as possibility to be configured as Medium Intensity white only or dual, i.e. white and red, incorporated fault monitoring, photocell, GPS synchronization, infrared and support for both stand-alone and Modbus operation as a part of Obelux aviation light system network.

## Specifications met

ICAO International Standards and Recommended Practices: Aerodromes Annex 14 Volume 1, 9th Edition, July 2022, Chapter 6: Medium-intensity Type A. Medium-intensity Type B/C.

nach Nr. 28 der Allgemeinen Verwaltungsvorschrift zur Kennzeichnung von Luftfahrthindernissen (AVV Kennzeichnung), Germany

Feux de balisage d'obstacle, DGAC, STAC, France

TSFS 2020:88, Sweden

## Key Features

- ▶ Based on LED technology
- ▶ 20 000 cd WHITE flashing and RED fixed or flashing
- ▶ Supports both stand-alone and RS-485 Modbus operations
- ▶ Suitable for Offshore environment
- ▶ Built-in GPS synchronisation
- ▶ Infrared as an option
- ▶ Visibility sensor interface controlled luminous output levels 10%, 30% and 100%
- ▶ Built-in photocell and fault monitoring
- ▶ Hot start for radar-controlled systems
- ▶ Design lifetime more than 20 years

## Electrical Characteristics

- ▶ Operating voltage (AC):  
Nominal 100-240V<sub>AC</sub> ± 10%, 50Hz / 60Hz ± 6%  
(Range 90-265V<sub>AC</sub>)
- ▶ Operating voltage (DC): 20-60V<sub>DC</sub>
- ▶ Flash rates: 20/30/40/60 fpm
- ▶ Meets standards:  
EMC (Emissions): EN 61000-6-4  
EMC (Immunity): EN 61000-6-2
- ▶ Power consumption for ACW versions
  - 14W @ Day (WHITE, 40 fpm)
  - 3W @ Night (WHITE, 40 fpm)
  - 4,5W @ Night (WHITE+IR, 40 fpm)
  - 6 W @ Night (RED, 40 fpm)
  - 9 W @ Night (RED+IR, 40 fpm)
  - 26W @ Night (RED, fixed)
  - 30W @ Night (RED+IR, fixed)
- ▶ Alarm relay output NO/NC dry contact  
Switch voltage/current max: 50VDC / 1A, 250VAC / 10A
- ▶ ModBUS RS-485 isolated 4,5kV

## Additional Factory-Installed Options

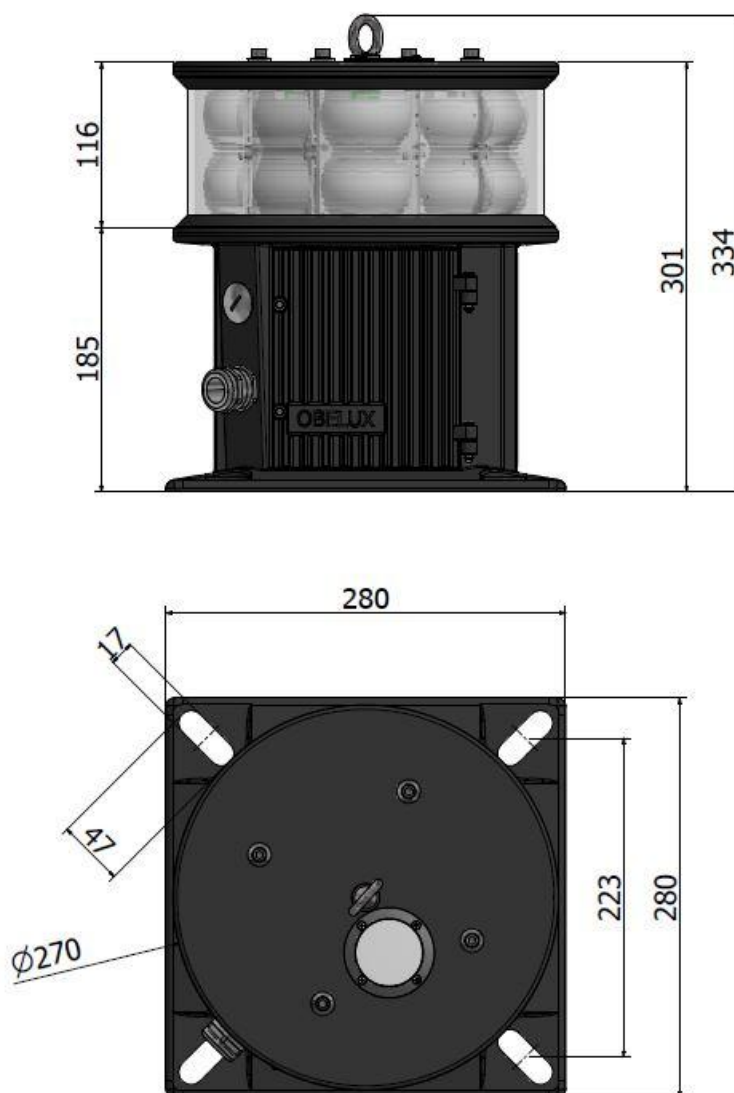
- ▶ NVG compliant infrared (IR)
- ▶ 4 Input 4 Output (IO)
- ▶ Ethernet Interface:
  - 1 x RJ-45 copper (E)
  - 4 port switch: 2 x Fiber SC multimode Female, 2 x RJ45 copper (EF)

## Recommended Cables

- ▶ For ACW versions:
  - Power (L-N-PE): 3x1,5mm<sup>2</sup> or 3x2,5mm<sup>2</sup>
  - Data: 3x0,75 mm<sup>2</sup> – 3x1,0 mm<sup>2</sup> shielded or CAT6
  - Alarm: CAT 6, 3x1,5mm<sup>2</sup> or 3x2,5mm<sup>2</sup>
  - Power + Alarm: 6x1,5mm<sup>2</sup> or 6x2,5mm<sup>2</sup>
- ▶ Terminals can be used to distribute power and data to another light head (6 core cable must be used).

## Mechanical Characteristics

- ▶ Painted marine grade aluminium body (C5MHigh)
- ▶ Glass cover
- ▶ Degree of protection IP66
- ▶ Operating temperature range -40...+55 °C
- ▶ Mounting 240x240mm, Ø17mm
- ▶ Height 334 mm, diameter 270 mm
- ▶ Weight 12 kg
- ▶ Packing dimensions and weight:  
460x330x330mm, 15,5kg



## 20 000 cd / 2 000 cd WHITE and RED products

| Order code          | Output    | ICAO       | Operating voltage | GPS sync. | RED | Infrared | CCV | Photocell and Fault monitoring | Alarm Relay | ModBUS |
|---------------------|-----------|------------|-------------------|-----------|-----|----------|-----|--------------------------------|-------------|--------|
| MID-ICAO-ACWGAM-X   | 20 000 cd | Type A+B/C | 100-240VAC        | Yes       | Yes | No       | Yes | Yes                            | Yes         | Yes    |
| MID-ICAO-ACWIRGAM-X | 20 000 cd | Type A+B/C | 100-240VAC        | Yes       | Yes | Yes      | Yes | Yes                            | Yes         | Yes    |
| MID-ICAO-DCGAM-X    | 20 000 cd | Type A+B/C | 20-60VDC          | Yes       | Yes | No       | Yes | Yes                            | Yes         | Yes    |
| MID-ICAO-DCIRGAM-X  | 20 000 cd | Type A+B/C | 20-60VDC          | Yes       | Yes | Yes      | Yes | Yes                            | Yes         | Yes    |

### X:

{ } = Without any extension board

IO = Including 4 Input 4 Output (IO) interface

E = Ethernet interface with 1 x RJ-45 copper connector

EF = 4 port switch:

Ethernet interface with 2 x RJ-45 copper connector and 2 x Fiber SC multimode female connectors

### ICAO:

Medium-intensity Type A = 20 000 cd / 2000 cd WHITE flashing

Medium-intensity Type B = 2000 cd RED flashing

Medium-intensity Type C = 2000 cd RED steady

## 20 000 cd / 2 000 cd WHITE only products

| Order code         | Output    | ICAO   | Operating voltage | GPS sync. | RED | Infrared | CCV | Photocell and Fault monitoring | Alarm Relay | ModBUS |
|--------------------|-----------|--------|-------------------|-----------|-----|----------|-----|--------------------------------|-------------|--------|
| MI-ICAO-ACWGAM-X   | 20 000 cd | Type A | 100-240VAC        | Yes       | No  | No       | Yes | Yes                            | Yes         | Yes    |
| MI-ICAO-ACWIRGAM-X | 20 000 cd | Type A | 100-240VAC        | Yes       | No  | Yes      | Yes | Yes                            | Yes         | Yes    |
| MI-ICAO-DCGAM-X    | 20 000 cd | Type A | 20-60VDC          | Yes       | No  | No       | Yes | Yes                            | Yes         | Yes    |
| MI-ICAO-DCIRGAM-X  | 20 000 cd | Type A | 20-60VDC          | Yes       | No  | Yes      | Yes | Yes                            | Yes         | Yes    |

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IO = Including 4 Input 4 Output (IO) interface

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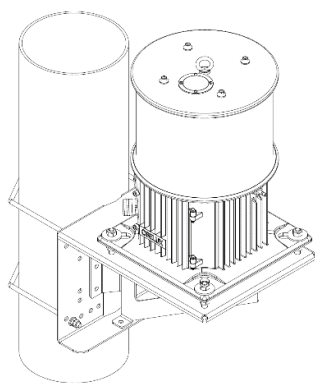
EF = 4 port switch:

Ethernet interface with 2 x RJ-45 copper connector and 2 x Fiber SC multimode female connectors

### ICAO:

Medium-intensity Type A = 20 000 cd / 2000 cd WHITE flashing

## Available mounting set options:



### Obelux MS-MIV1001 / MS-MIV1002

Mounting set for wall mounting and for 60-200mm tubes.

This mounting set includes:

- ▶ 2 pcs U-bolt 60-100 A4
- ▶ 2 pcs U-bolt 100-200 A4
- ▶ 8 pcs M8 hex nut A4 ISO 4161
- ▶ 8 pcs M8 hex nut A4 ISO 4032
- ▶ 8 pcs M10 hex nut A4 ISO 4032
- ▶ 4 pcs M10 hex nut A4 ISO 4161
- ▶ 4 pcs M12 washer A4 ISO 7089

Easy horizontal adjustment / installation.

More detailed mechanical data: see MS-MIV1001/1002 datasheet

- ▶ Order Code MS-MIV1001 (Mounting bracket is AISI304 stainless steel)
- ▶ Order Code MS-MIV1002 (Mounting bracket is AISI316 acid-proof steel)