# 230 V<sub>AC</sub> ICAO Low-intensity, Type A Obstacle Light with photocell & flasher

#### **Key features**

- Based on LED-technology
- Extremely reliable long lifetime
- Suitable for off-shore use
- Very low power consumption
- 230 V<sub>AC</sub> nominal operating voltage
- Stabilised light output
- Lightweight and small low wind load factor
- Easy to install, several mounting sets available
- Two cable glands, easy to chain without external terminal boxes
- No RF-radiations
- Five (5) years warranty
- Patented

#### **Benefits**

- Long maintenance intervals
- Low energy cost
- Supply power voltage variations do not affect to light output
- Very low total lifetime costs
- Low wind load

#### Specifications met

- ICAO International Standards and Recommended Practices: Aerodromes - Annex 14 Volume 1, 5th Edition, July 2009, Chapter 6: Low-intensity, Type A Fixed Obstacle Light

#### **Optical characteristics**

- Intensity better than 10 cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 50°
- LED supply current stabilised by constant current generator
- Light output degradation less than 30% after 100.000 h of operation

### **Electrical characteristics**

- Nominal operating voltage 230  $V_{\rm AC}$
- Power consumption less than 3 VA, 1.5 W
- Operating voltage range 210 to 270 V<sub>AC</sub>
- Over-voltage protection

#### **Mechanical characteristics**

- Anodized, marine grade aluminium body and end parts
- AISI 316 acid proof steel screws
- Colourless (clear) glass cover
- Terminal box for 1,5 6 mm<sup>2</sup> wires
- Degree of protection IP 65
- Operating temperature range -55°C to +70°C
- Height 210 mm, diameter 104 mm, weight 1.1 kg
- Wind load with MS-EV60 mounting kit @ 200 km/h less than 40 N

#### **Options**

- Mounting kits
- Light unit without Photocell & Flasher: Obelux LI-10-230-F

Order Code: Obelux LI-10-230-PCFL



Obelux LI-10-230-PCFL LED obstacle light

#### Photocell characteristics

- Turn on delay 1 s
- Turn off delay 200 s
- User selectable photocell sensitivity (bold = factory default)
  OFF / 200 lux / 400 lux / 800 lux

### Flash controller characteristics

- User selectable flashing rate (bold = factory default)
   Steady burning / 20 fpm / 40 fpm / 60 fpm
- 250 ms flash duration



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# 230 $V_{\text{AC}}$ ICAO Low-intensity, Type A Obstacle Light with photocell & flasher

#### **ELECTRICAL INSTALLATION INSTRUCTIONS**

Obelux LI-10-230-PCFL has two cable glands for easy chaining without external distribution boxes

Obelux LI-10-230-PCFL is an obstacle light utilizing LED technology. The cabling and installation principles are similar to those of conventional obstacle lights.

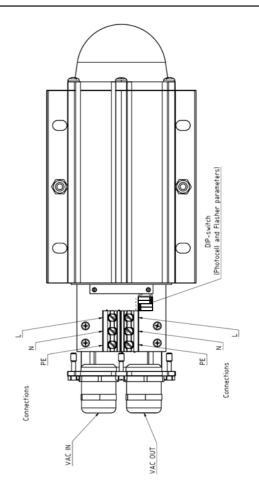
Connection can be protected with a 6 A or 10 A fuse or with a circuit breaker (C curve).

# Installation specifications

- Cable gland: M25
- Cable diameter: 11 to 17 mm - Wire diameter: max. 6 mm<sup>2</sup>
- Recommended cable: 3x1.5 mm<sup>2</sup> or 3x2.5 mm<sup>2</sup>

# **Options**

CGS-20: Smaller cable glands
 Set include 2 pcs M20 cable glands with M25-M20 adapters for
 7-13 mm cables



#### **PCFL DIP switches**

DIP1	DIP2	PHOTOCELL
OFF	OFF	OFF (light always ON)
ON	OFF	200 lux
OFF	ON	400 lux
ON	ON	800 lux

F ON

Default DIP settings: 800 lux, steady burning

 DIP3
 DIP4
 FLASH RATE

 OFF
 OFF
 STEADY BURNING

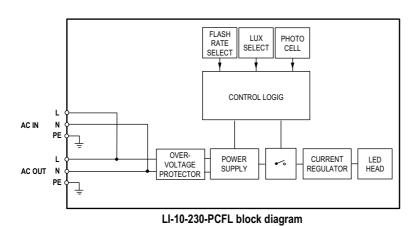
 ON
 OFF
 20 fpm

 OFF
 ON
 40 fpm

60 fpm

Flash Duration 250 ms

ON ON





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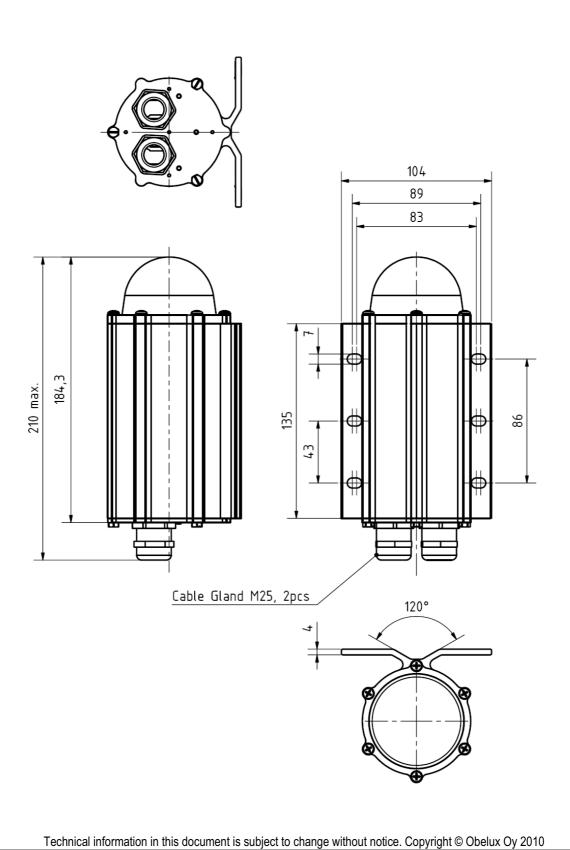


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230  $V_{\rm AC}$  ICAO Low-intensity, Type A Obstacle Light with photocell & flasher

# **Mechanical dimensions**





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# 230 V<sub>AC</sub> ICAO Low-intensity, Type A Obstacle Light with photocell & flasher

# There are several types of mounting sets available as option:

#### Obelux MS-HV80

Mounting set for 33-80 mm vertical or horizontal pipe

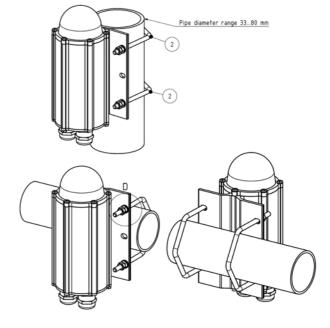
Mounting set include:

- 2 pcs M6 U-bolt
- 8 pcs M6 hex nut
- 4 pcs 6/12 mm washer

All parts AISI 316 acid proof steel

More detailed mechanical data: MS-HV80 datasheet

Order Code: MS-HV80



# **Obelux MS-EV60**

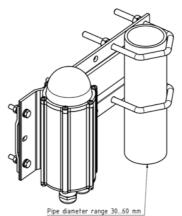
Mounting set with extension plate for 30-60 mm vertical pipe installation

#### Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs extension plate

Extension plate marine grade anodized aluminium, other parts AISI 316 acid proof steel
More detailed mechanical data: MS-EV60 datasheet

Order Code: MS-EV60



# Obelux MS-EV100:

Mounting set with extension plate for 60-100 mm vertical pipe installation

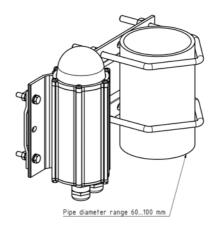
# Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs extension plate

Extension plate marine grade anodized aluminium, other parts AISI 316 acid proof steel

More detailed mechanical data: MS-EV100 datasheet

Order Code: MS-EV100



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#### Obelux MS-EV150:

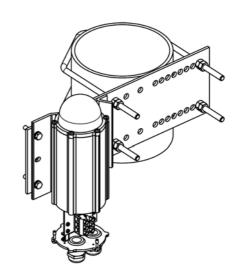
Mounting set with extension plate for 100-150 mm vertical pipe installation

### Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs extension plate

Extension plate hot dipped galvanised steel, other parts AISI 316 acid proof steel
More detailed mechanical data: MS-EV150 datasheet

Order Code: MS-EV150



#### Obelux MS-DEV60:

Double mounting set with extension plate for 30-60 mm vertical pipe installation

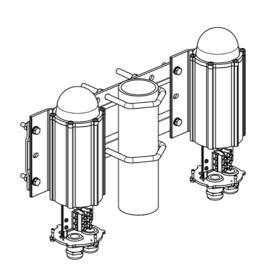
# Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 8 pcs M6x30 bolt, 16 pcs M6 hex nut, 8 pcs 6/12 washer
- 1 pcs extension plate

Extension plate marine grade anodised aluminium, other parts AISI 316 acid proof steel

More detailed mechanical data: MS-DEV60 datasheet

Order Code: MS-DEV60



# Obelux MS-DEV100:

Double mounting set with extension plate for 60-100 mm vertical pipe installation

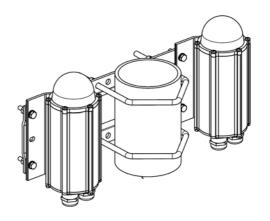
#### Mounting set include:

- 2 pcs M8 U-bolt, 8 pcs M8 hex nut
- 8 pcs M6x30 bolt, 16 pcs M6 hex nut, 8 pcs 6/12 washer
- 1 pcs extension plate

Extension plate marine grade anodised aluminium, other parts AISI 316 acid proof steel

More detailed mechanical data: MS-DEV100 datasheet

Order Code: MS-DEV100



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#### **Obelux MS-RW**

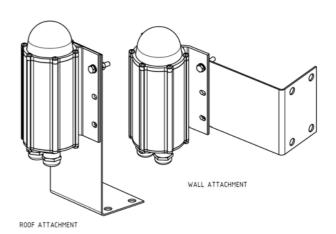
Mounting set for horizontal plate or wall installation

Mounting set include:

- 4 pcs M6x30 bolt, 8 pcs M6 hex nut, 4 pcs 6/12 washer
- 1 pcs L-shape 2 mm plate

All parts AISI 316 acid proof steel More detailed mechanical data: MS-RW datasheet

Order Code: MS-RW



#### **Obelux MS-LVU**

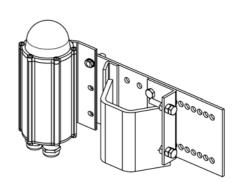
Mounting set for L and V -shape profiles

Mounting set include:

- 1 set accessories for light unit fitting to plate
- 1 pcs extension plate with adjusting plate and accessories

Extension plate hot dip galvanized steel, other parts AISI 316 acid proof steel
More detailed mechanical data: MS-LVU datasheet

Order Code: **MS-LVU** (with galvanized extension plate) **MS-LVA** (with AISI 316 extension plate)

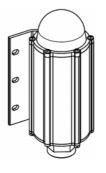


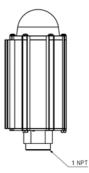
# Obelux MS-N1B

Mounting set for 1" NPT at bottom

More detailed mechanical dimensions: MS-N1B dataheet

Order Code: MS-N1B





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