OBELUX
AVIATION LIGHTS

LI-32-DCW-PCFL   DATASHEET

13 Sep. 2010

Data & Guide
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10 - 60 V$_{DC}$ ICAO Low-intensity Type B, FAA L-810 Obstacle Light with Photocell & Flasher

Key features
- Based on LED-technology
- Extremely reliable - long lifetime
- Suitable for off-shore use
- Very low power consumption
- Wide 10 to 60 VDC input 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 B Fixed Obstacle Light
- FAA Advisory Circular 150/5345-43F 09/12/06 L-810 Light Unit

Optical characteristics
- Intensity better than 32.5 cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 15°
- LED supply current stabilised by constant current generator
- Light output degradation less than 30% after 100.000 h of operation

Electrical characteristics
- Input voltage range 10 - 60 V$_{DC}$
- Power consumption less than 3 W
- 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^2 wires
- Degree of protection IP 65
- Operating temperature range –55°C to +55°C
- Height 210 mm, diameter 104 mm, weight 1.1 kg
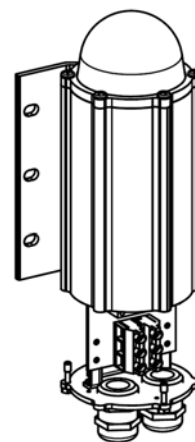- Wind load with MS-EV60 mounting kit @ 200 km/h less than 40 N

Options
- Mounting kits
- Without Photocell & Flasher: Ref Obelux LI-32-DCW-F datasheet

Order Code: **Obelux LI-32-DCW-PCFL**

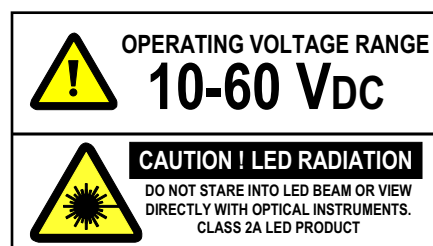**Obelux LI-32-DCW-PCFL LED obstacle light**

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

> ⚠ **OPERATING VOLTAGE RANGE**
> **10-60 V$_{DC}$**
>
> ☢ **CAUTION ! LED RADIATION**
> DO NOT STARE INTO LED BEAM OR VIEW
> DIRECTLY WITH OPTICAL INSTRUMENTS.
> CLASS 2A LED PRODUCT

Made in Finland

10 - 60 V_{DC} ICAO Low-intensity Type B, FAA L-810 Obstacle Light with Photocell & Flasher

ELECTRICAL INSTALLATION INSTRUCTIONS

Obelux LI-32-DCW-PCFL has two cable glands for easy chaining without external distribution boxes

Obelux LI-32-DCW-PCFL is an obstacle light utilizing LED technology. The cabling and installation principles are similar to those of conventional obstacle lights.
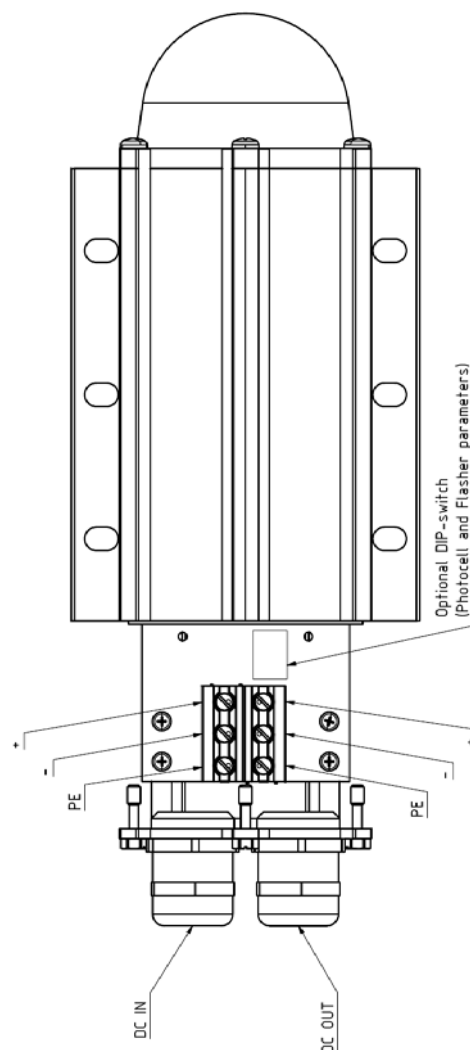
Connection can be protected with a 6 A or 10 A fuse or with a circuit breaker (C curve).

Installation specifications
- Cable gland: M25
- Cable diameter: 11 to 17 mm
- Wire diameter: max. 6 mm^2
- Recommended cable: 3x1.5 mm^2 or 3x2.5 mm2

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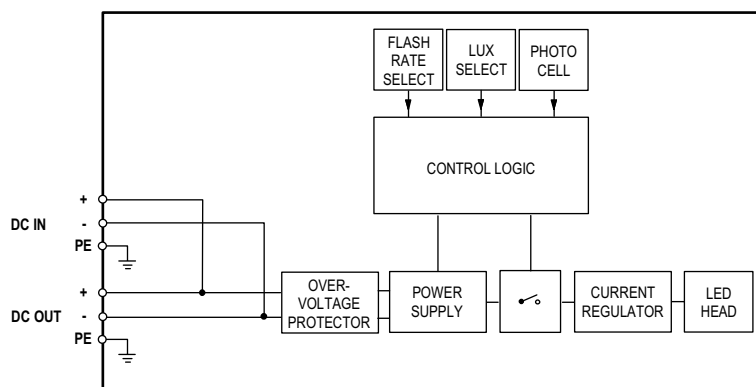 Set include 2 pcs M20 cable glands with M25-M20 adapters for 7-13 mm cables

PCFL DIP switches

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

DIP3	DIP4	FLASH RATE
OFF	OFF	STEADY BURNING
ON	OFF	20 fpm
OFF	ON	40 fpm
ON	ON	60 fpm

Flash duration: 250 ms

	OFF	ON
1.		□
2.		□
3.	□	
4.	□	

**Default DIP settings:
800 lux, steady burning**

LI-32-DCW-PCFL block diagram

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AVIATION LIGHTS

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Mechanical dimensions

Cable Gland M25, 2pcs

120°
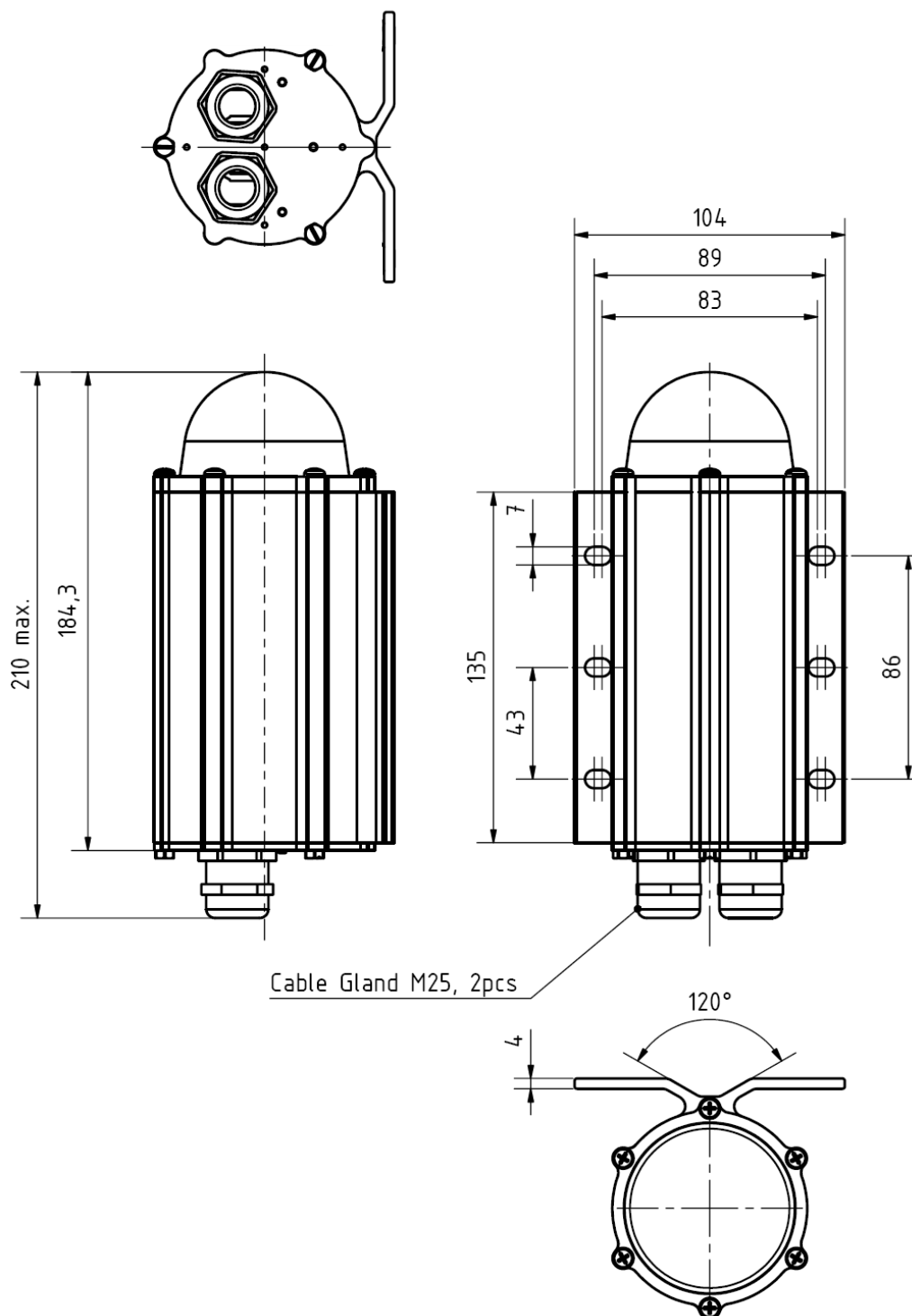
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AVIATION LIGHTS

There are several types of mounting sets available as option:

Obelux MS-HV80
Mounting set for 33-80 mm vertical or horizontal pipe

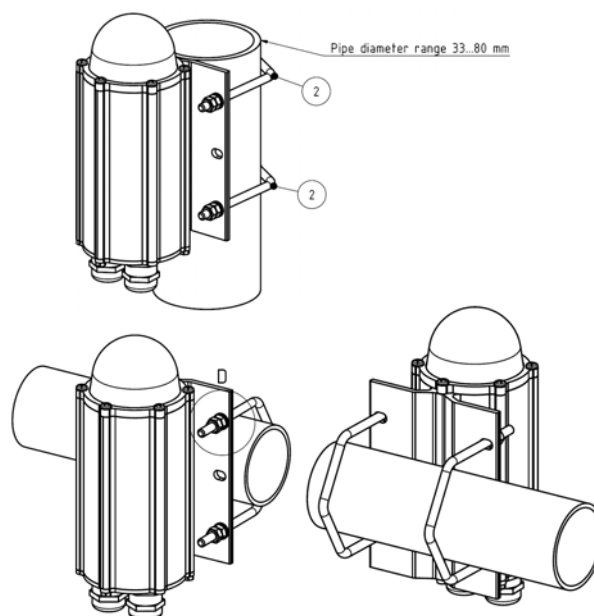Mounting set include:
- 2 pcs M6 U-bolt
- 8 pcs M6 hex nut
- 4 pcs 6/12 mm washer

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
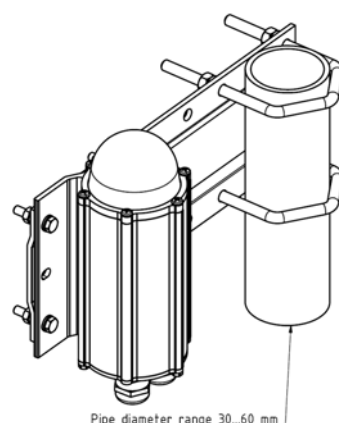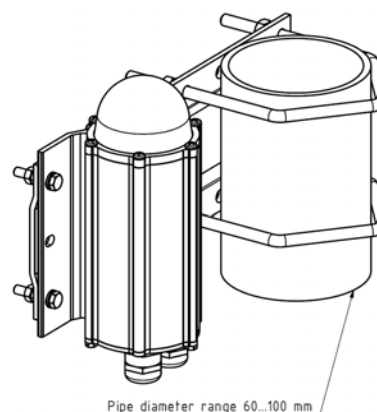for 30-60 mm vertical pipe installation

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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**10 - 60 V$_{DC}$ ICAO Low-intensity Type B, FAA L-810 Obstacle Light
with Photocell & Flasher**

Obelux MS-EV150:
Mounting set with extension plate
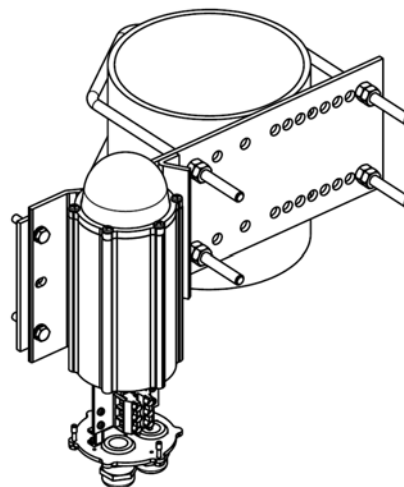for 100-150 mm vertical pipe installation

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
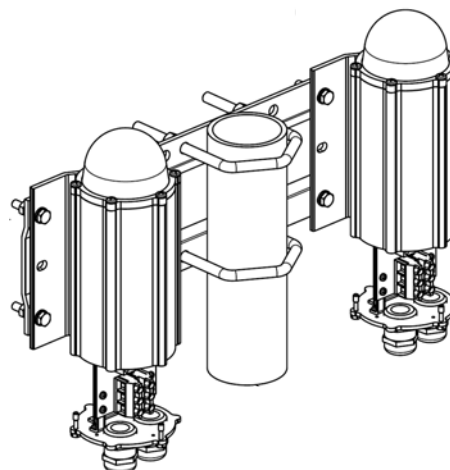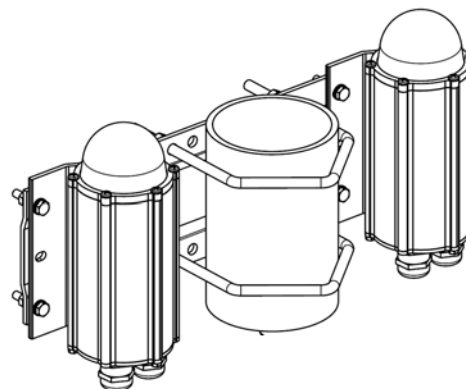for 30-60 mm vertical pipe installation

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**

Obelux MS-RW
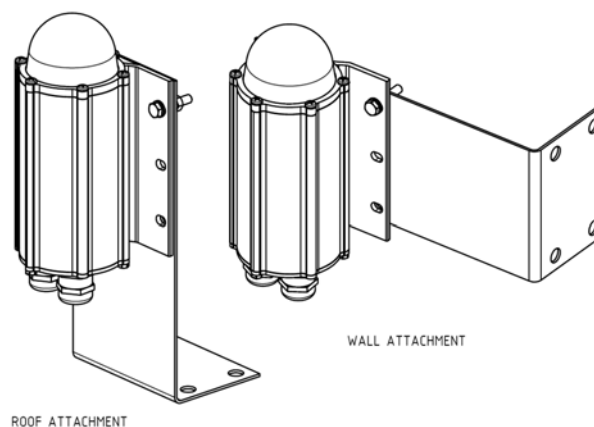Mounting set for horizontal plate or wall installation

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**

WALL ATTACHMENT

ROOF ATTACHMENT

Obelux MS-LVU
Mounting set for L and V -shape profiles

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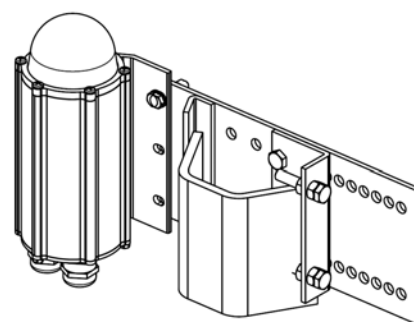- 1 pcs extension plate with adjusting plate and accessories

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)
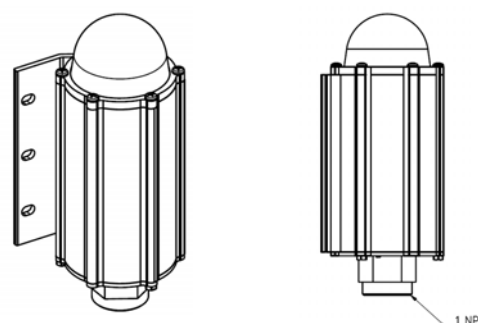**MS-LVA** (with AISI 316 extension plate)

Obelux MS-N1B
Mounting set for 1" NPT at bottom
More detailed mechanical dimensions: MS-N1B datasheet

Order Code: **MS-N1B**

1 NPT

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