



32cd Low-intensity Obstruction Light with Photocell & Flasher 230VAC - ICAO Type B. FAA L-810.

CEL-LI-32-230-PCFL - LED Aircraft Warning Light

Key features

- Based on LED technology
- Extremely reliable - long lifetime
- Suitable for off-shore use
- Very low power consumption
- 230V_{AC} 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) year warranty
- Patented

Benefits

- Long maintenance intervals
- Low energy cost
- Supply power voltage variations do not affect 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 32cd
- 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 100,000hrs of operation

Electrical characteristics

- Nominal operating voltage 230V_{AC}
- Power consumption less than 4VA, 3W
- Operating voltage range 210 to 270V_{AC}
- Over voltage protection

Mechanical characteristics

- Anodised marine grade aluminium body and end parts
- AISI 316 acid proof steel screws
- Colourless (clear) glass cover
- Terminal box for 1, 5 - 6mm² wires
- Degree of protection IP65
- Operating temperature range -55° to +70°C
- Height 210mm, diameter 104mm, weight 1.1 kg
- Wind load with CEL-MS-EV60 mounting kit @ 200km/h less than 40N

Options

- Mounting kits
- Light unit without Photocell & Flasher: CEL-LI-32-230-F

Order Code: CEL-LI-32-230-PCFL



CEL-LI-32-230-PCFL

Photocell characteristics

- Turn on delay 1 s
- Turn off delay 200 s
- User selectable photocell sensitivity
OFF/ 200lux / 400lux / 800lux

Flash controller characteristics

- User selectable flashing rate
Steady burning /20fpm /40fpm /60fpm
- 250ms flash duration



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ELECTRICAL INSTALLATION INSTRUCTIONS

CEL-LI-32-230-PCFL has two cable glands for easy chaining without external distribution boxes

CEL-LI-32-230-PCFL is an obstacle light utilising LED technology. The cabling and installation principles are similar to those of conventional obstacle lights.

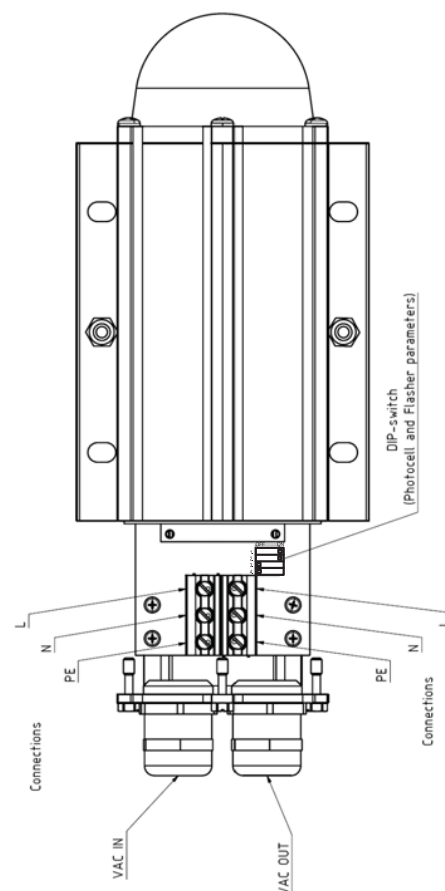
Connection can be protected with a 6A or 10A fuse or with a circuit breaker (C curve).

Installation specifications

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

Options

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

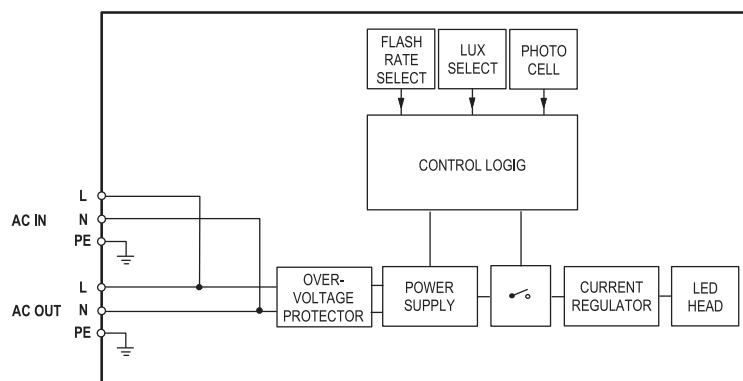


PCFL DIP switches

DIP1	DIP2	PHOTOCELL	OFF	ON	DIP3	DIP4	FLASH RATE
OFF	OFF	OFF (light always ON)	1.	<input type="checkbox"/>	OFF	OFF	STEADY BURNING
ON	OFF	200 lux	2.	<input type="checkbox"/>	ON	OFF	20 fpm
OFF	ON	400 lux	3.	<input type="checkbox"/>	OFF	ON	40 fpm
ON	ON	800 lux	4.	<input type="checkbox"/>	ON	ON	60 fpm

Default DIP settings:
800 lux, steady burning

Flash Duration 250 ms



LI-32-230-PCFL block diagram

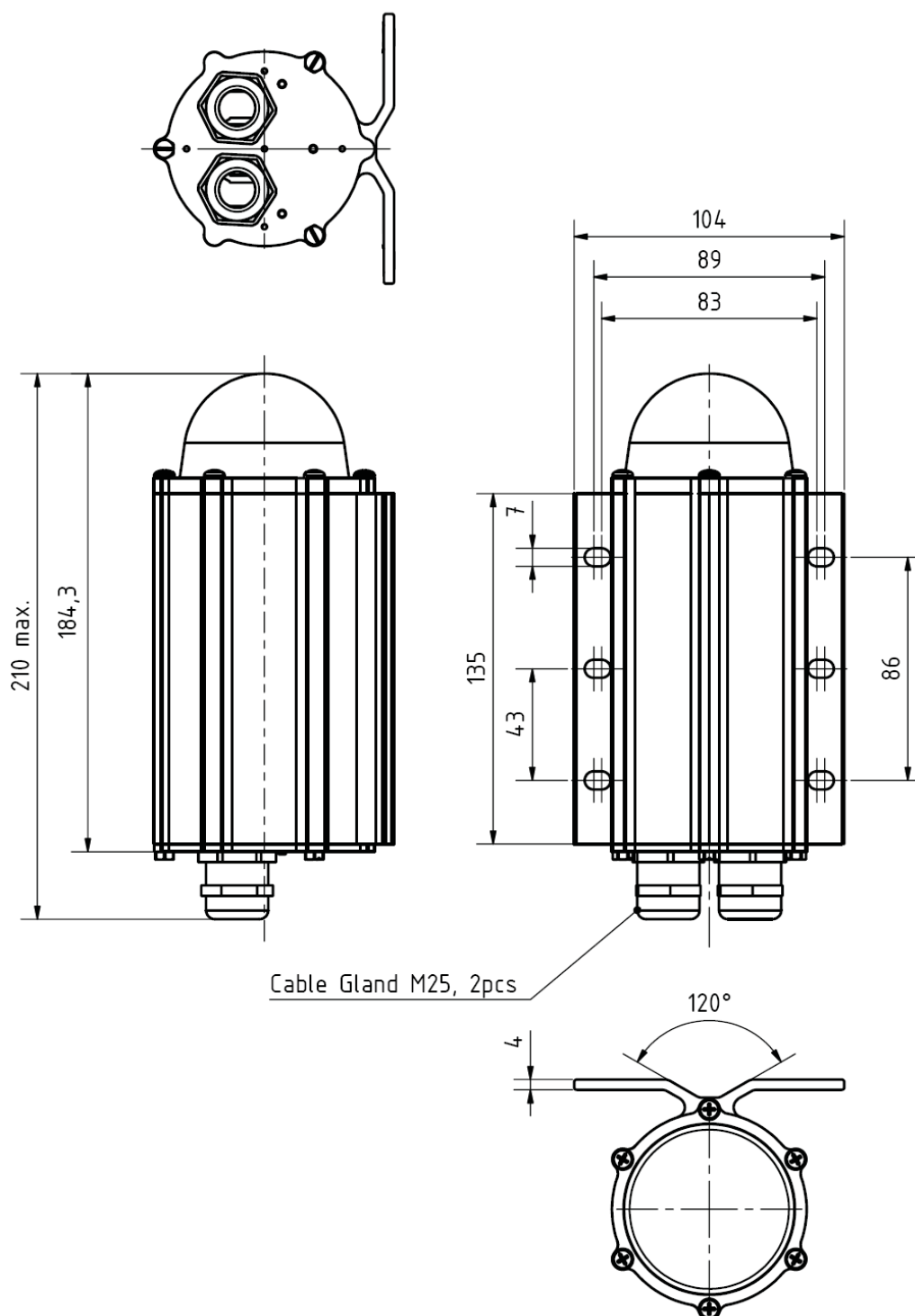


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Mechanical dimensions



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There are several types of mounting sets available as option:

CEL-MS-HV80

Mounting set for 33-80mm vertical or horizontal pipe

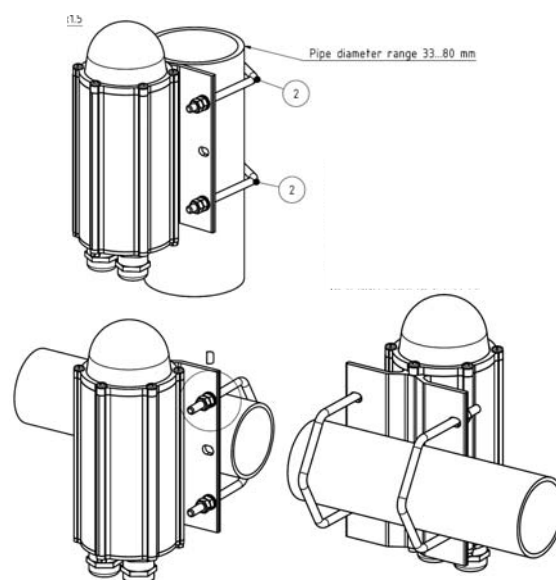
Mounting set include:

- 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: CEL-MS-HV80 datasheet

Order Code: **CEL-MS-HV80**



CEL-MS-EV60

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

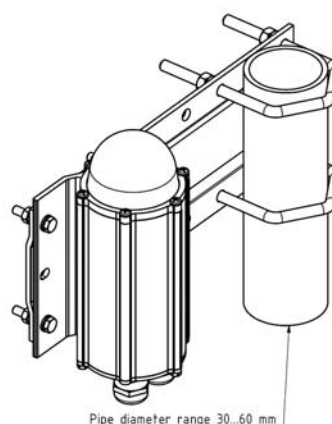
Mounting set include:

- 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 anodised aluminium, other parts AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-EV60 datasheet

Order Code: **CEL-MS-EV60**



CEL-MS-EV100:

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

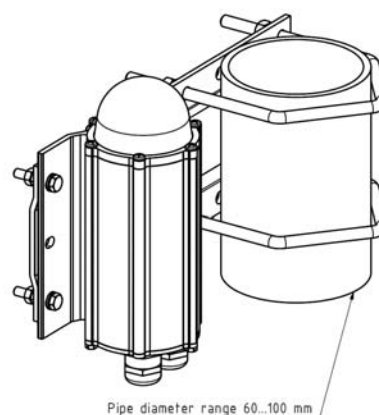
Mounting set include:

- 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 anodised aluminium, other parts AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-EV100 datasheet

Order Code: **CEL-MS-EV100**



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CEL-MS-EV150:

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

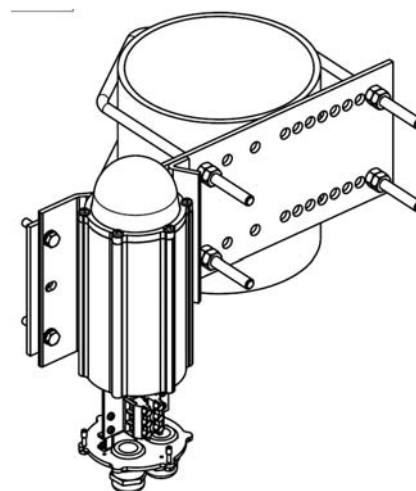
Mounting set include:

- 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: CEL-MS-EV150 datasheet

Order Code: **CEL-MS-EV150**



CEL-MS-DEV60:

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

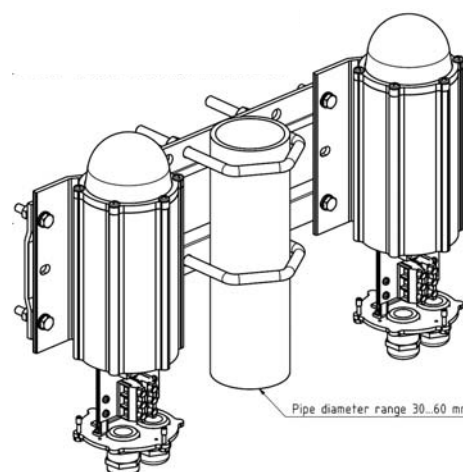
Mounting set include:

- 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: CEL-MS-DEV60 datasheet

Order Code: **CEL-MS-DEV60**



CEL-MS-DEV100:

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

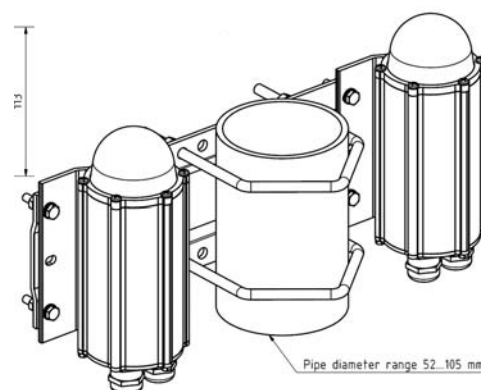
Mounting set include:

- 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: CEL-MS-DEV100 datasheet

Order Code: **CEL-MS-DEV100**



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CEL-MS-RW

Mounting set for horizontal plate or wall installation

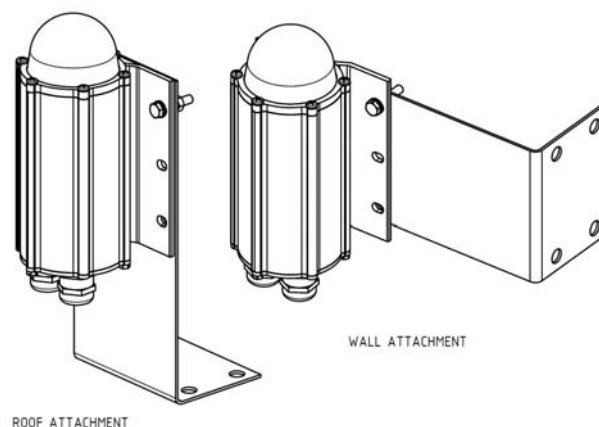
Mounting set include:

- 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: CEL-MS-RW datasheet

Order Code: **CEL-MS-RW**



CEL-MS-LVU

Mounting set for L and V -shape profiles

Mounting set include:

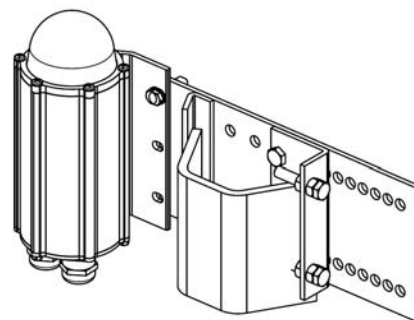
- 1 set accessories for light unit fitting to plate
- 1 pcs extension plate with adjusting plate and accessories

Extension plate hot dip galvanized steel, other parts AISI 316 acid proof steel

More detailed mechanical data: CEL-MS-LVU datasheet

Order Code: **CEL-MS-LVU** (with galvanized extension plate)

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



CEL-MS-N1B

Mounting set for 1" NPT at bottom

More detailed mechanical dimensions: CEL-MS-N1 B dataheet

Order Code: **CEL-MS-N1B**

