



10cd Low-intensity Obstruction Light - Photocell & Flasher 230V_{AC} - ICAO Type A

CEL-LI-10-230-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 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 A Fixed Obstacle Light

Optical characteristics

- Intensity better than 10cd
- 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 3VA. 1.5W
- 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 1.5-6 mm² wires
- Degree of protection IP 65
- Operating temperature range -55°C to +70°C
- Height 210mm, diameter 104mm, weight 1.1kg
- Wind load with CEL-MS-EV60 mounting kit @200km/h less than 40N

Options

- Mounting kits
- Light unit without Photocell & flasher: CEL-LI-10-230-F

Order Code: **CEL-LI-10-230-PCFL**



CEL-LI-10-230-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-10-230-PCFL have two cable glands for easy chaining without external distribution boxes

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

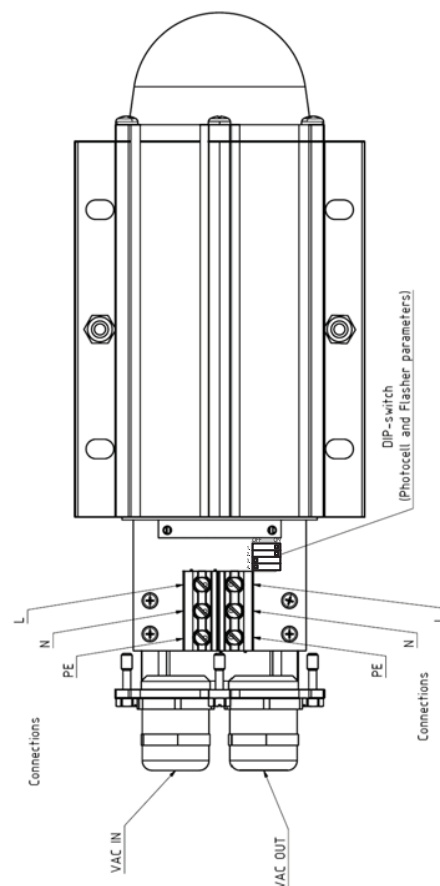
Connection can be protected with a 6A or 10A fuse or with a circuit breaker (C curve).

Installation specifications

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

Options

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

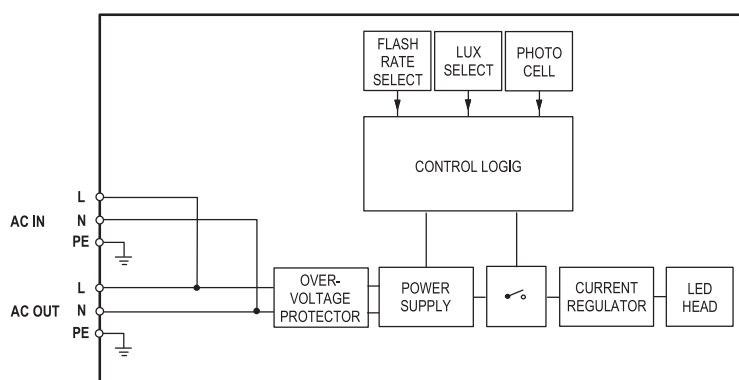


PCFL DIP switches

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-10-230-PCFL block diagram

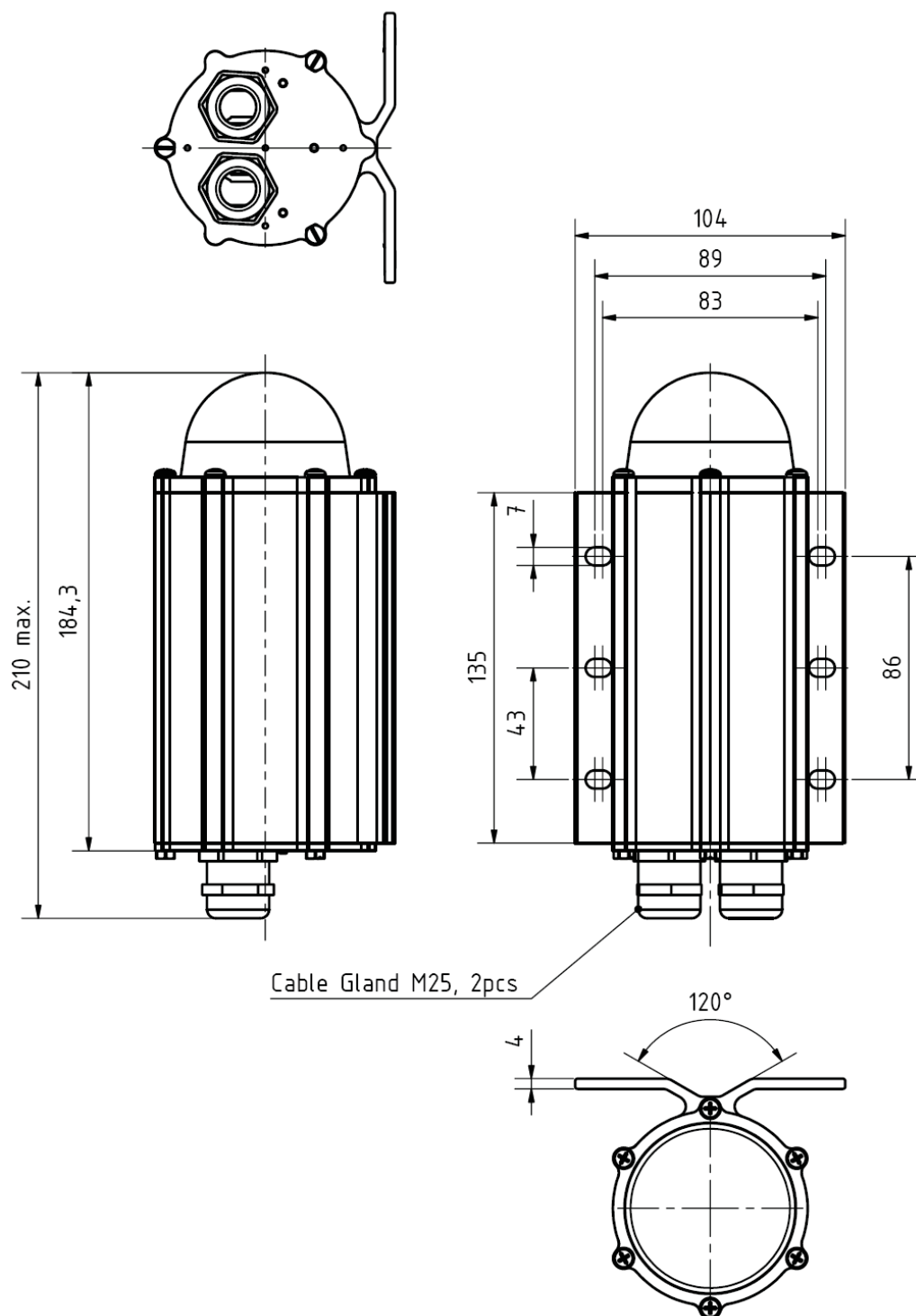


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Mechanical dimensions



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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

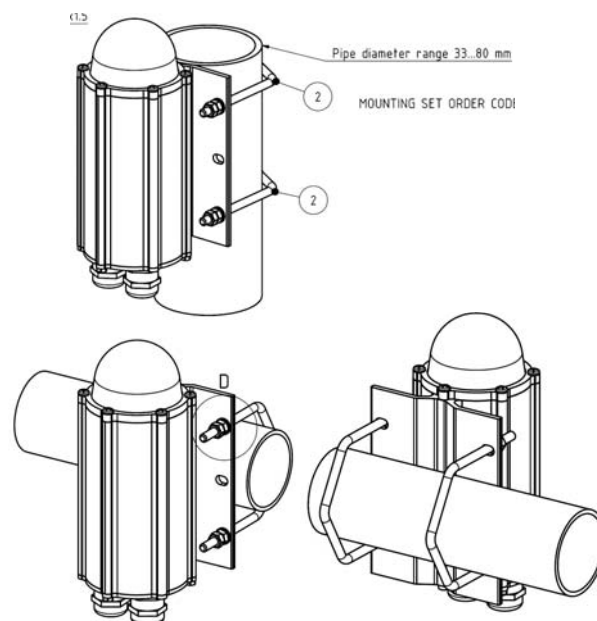
CS-HV mounting set includes:

- 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

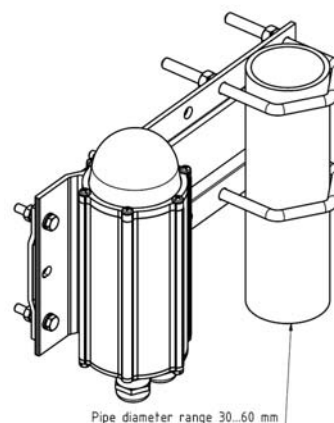
Mounting set includes:

- 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

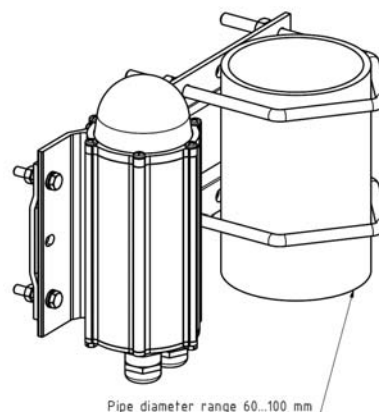
Mounting set includes:

- 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

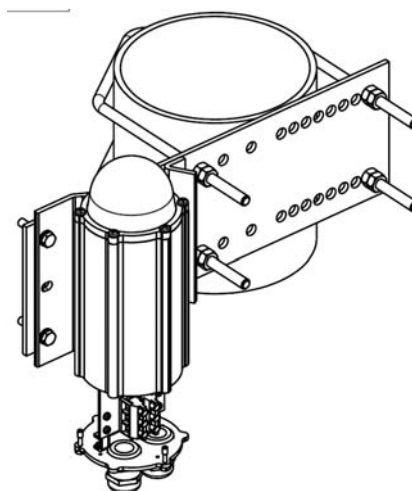
Mounting set includes:

- 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

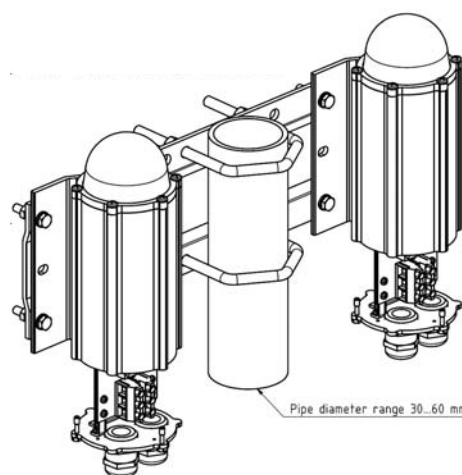
Mounting set includes:

- 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 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

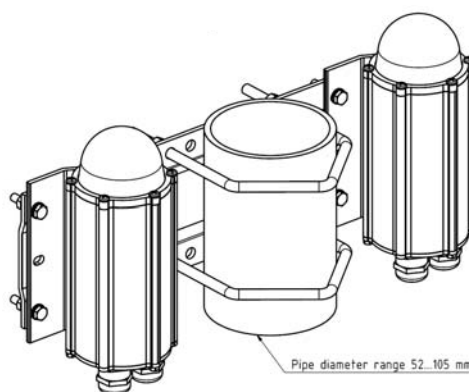
Mounting set includes:

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

More detailed mechanical data: CEL-MS-DEV100 data sheet

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



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CEL-MS-RW

Mounting set for horizontal plate or wall installation

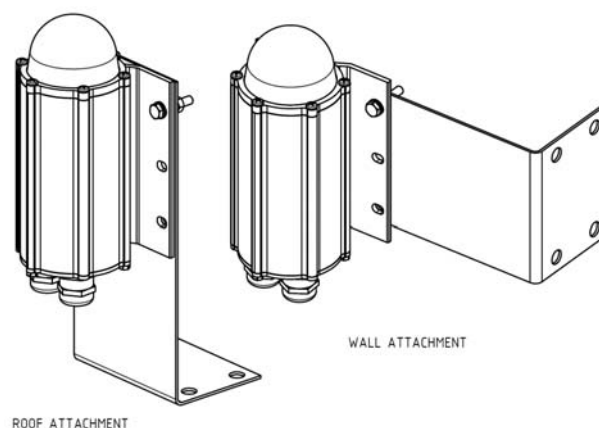
Mounting set includes:

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

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

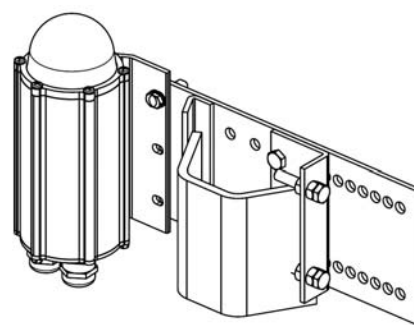
Extension plate hot dip galvanised steel, other parts

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-N1B dataheet

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

