

230V_{AC} Infrared Obstruction Light 850nm

CEL-LI-IR-850-230-F - 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) years warranty

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

Optical characteristics

- Total Radiant Flux 440mW
- Wavelength Infrared 850nm
- 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

- Nominal operating voltage 230V_{AC}
- Power consumption less than 4W
- Operating voltage range 210 to 260V_{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 1.1 kg
- Wind load with CEL-MS-EV60 mounting kit@ 200 km/h less than 40 N

Options

- Mounting kits
- Light unit with Photocell & Flasher: CEL-LI-IR850-230-PCFL

Order Code: **CEL-LI-IR850-230-F**

Made in EU



**CEL-LI-IR850-230-F LED
infrared obstacle light**



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ELECTRICAL INSTALLATION INSTRUCTIONS

CEL-LI-IR850-230-F has two cable glands for easy chaining without external distribution boxes

CEL-LI-IR850-230-F is an obstacle light utilising LED technology. The cabling and installation principles are similar to those of conventional obstacle lights.

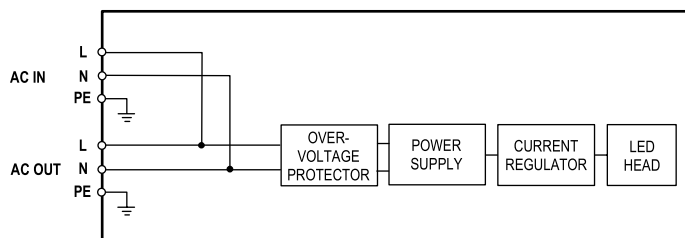
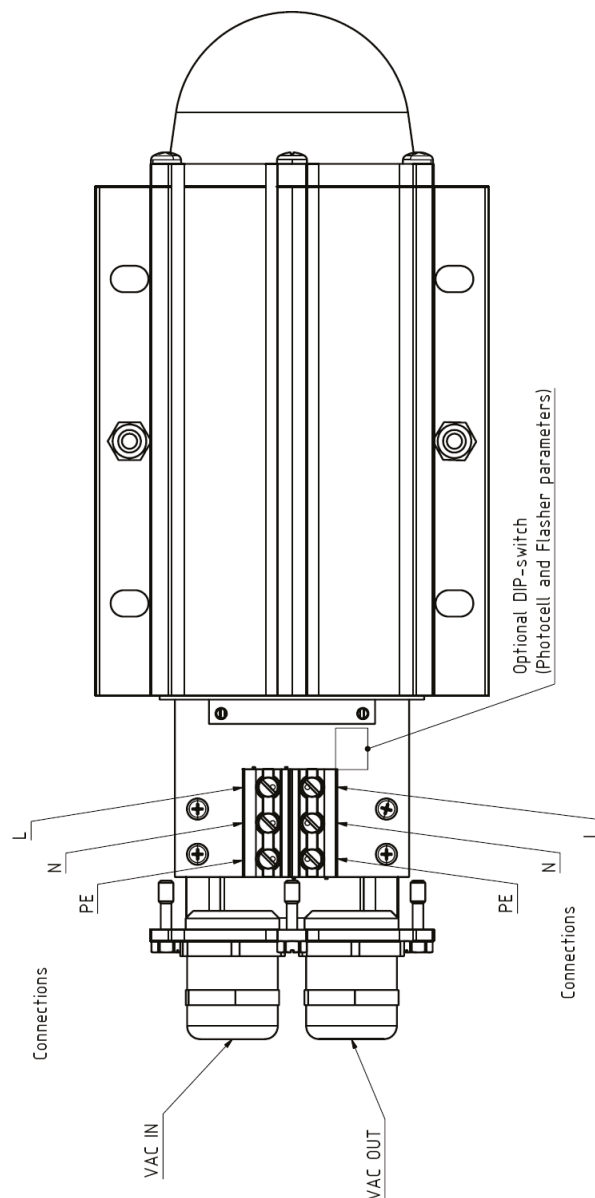
Connection can be protected with a 6A or 10A fuse or with a circuit breaker (C curve).

Installation specifications

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

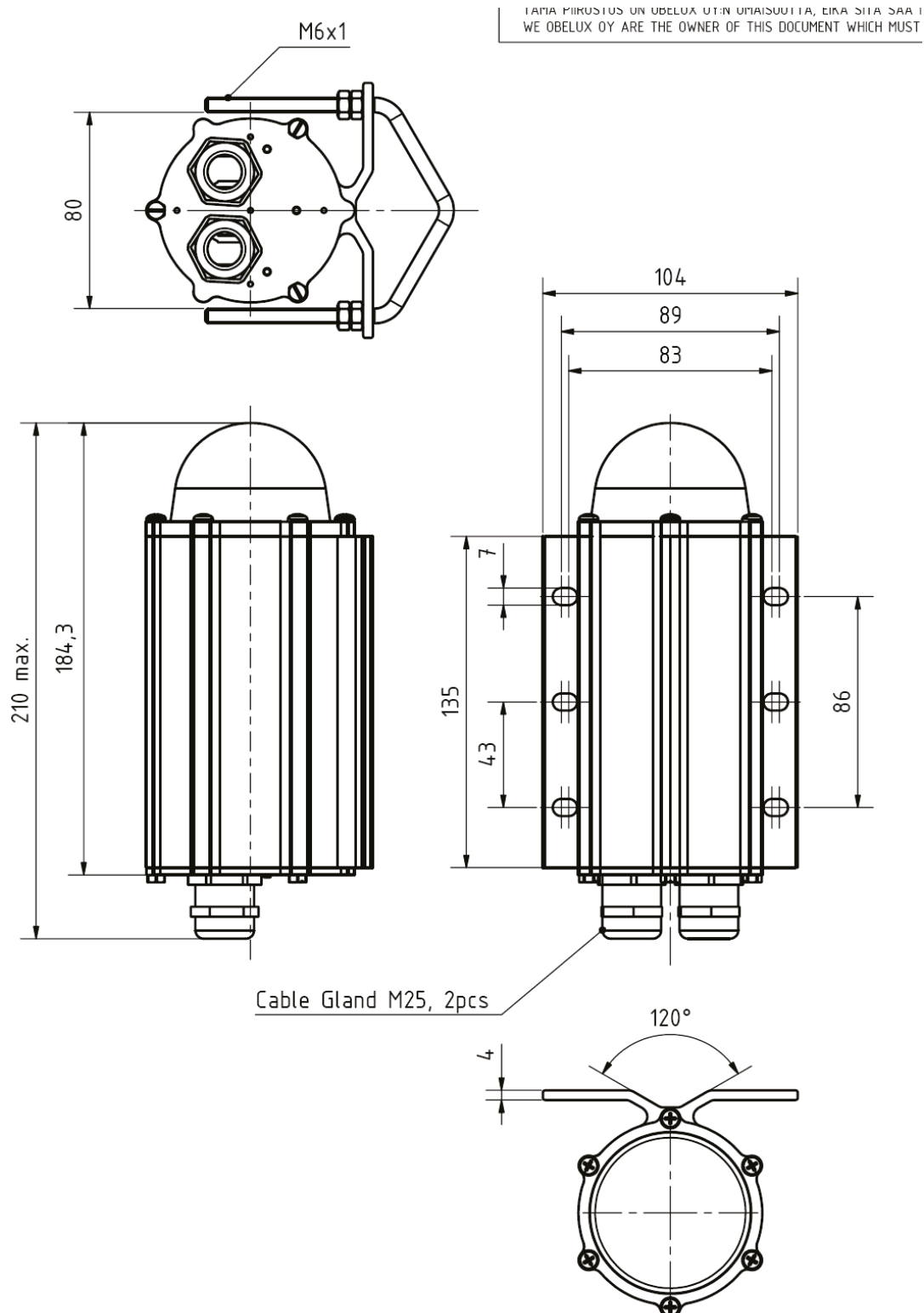


CEL-LI-IR850-230-F block diagram

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Mechanical Dimensions



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There are several types of mounting sets available as option:

CEL-MS-HVBO

Mounting set for 33-80 mm vertical or horizontal pipe

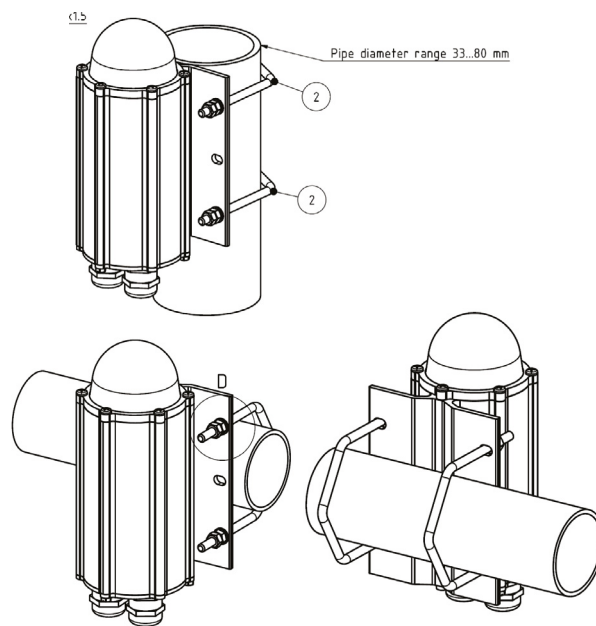
Mounting set include:

- 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: CEL-MS-HV80 datasheet

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



CEL-MS-EV60

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

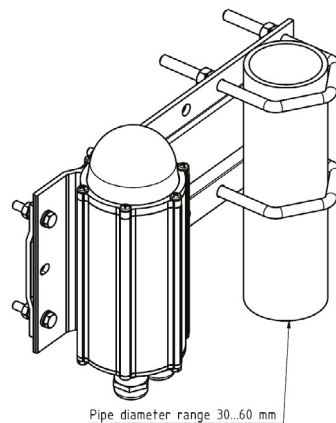
Mounting set include:

- 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 anodised aluminium, other parts AISI316 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 60-100 mm vertical pipe installation

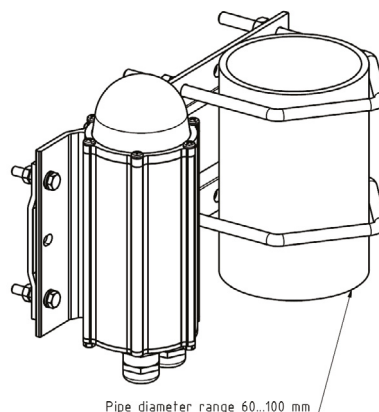
Mounting set include:

- 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: CEL-MS-EV100 datasheet

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



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CE L-MS-EV150:

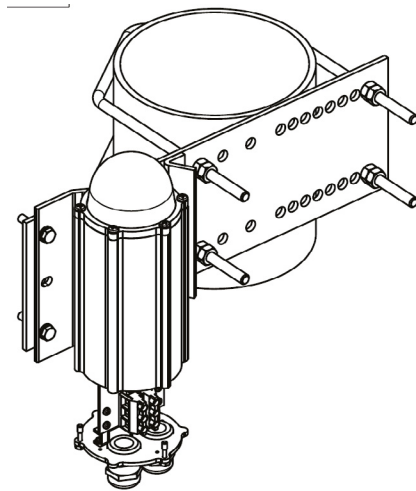
Mounting set with extension plate
for 100-150 mm vertical pipe installation

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: CEL-MS-EV150 datasheet

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



CEL-MS-DV60:

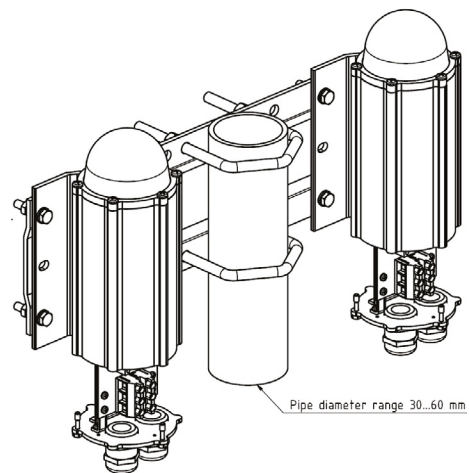
Double mounting set with extension plate
for 30-60 mm vertical pipe installation

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: CEL-MS-DV60 datasheet

Order Code: **CEL-MS-DV60**



CEL-MS-DV100:

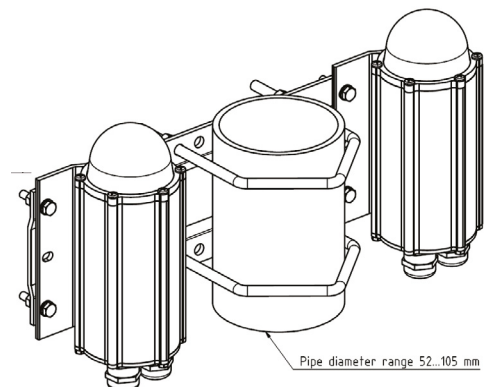
Double mounting set with extension plate
for 60-100 mm vertical pipe installation

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: CEL-MS-DV100 datasheet

Order Code: **CEL-MS-DV100**



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CEL-MS-RW

Mounting set for horizontal plate or wall installation

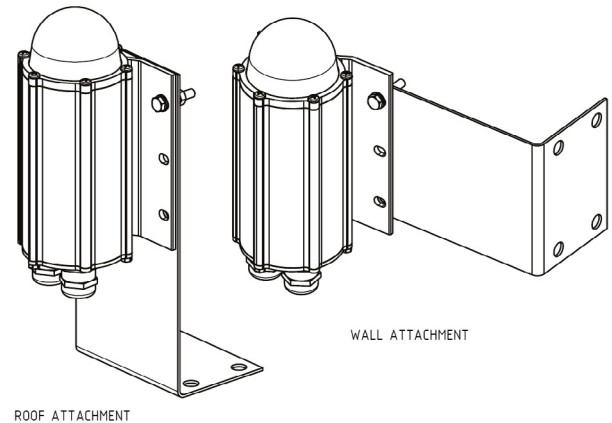
Mounting set include:

- 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-LV U

Mounting set for L and V -shape profiles

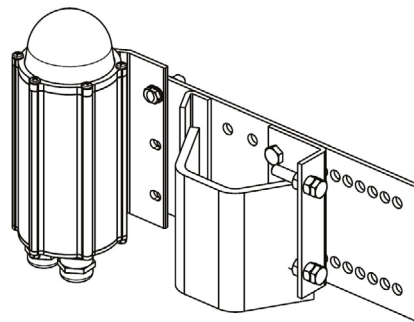
Mounting set include

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

Extension plate hot dip 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-N18

Mounting set for 1" NPT at bottom

More detailed mechanical dimensions: CEL-MS-N1B dataheet

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

