10-60V$_{DC}$ Infrared Obstruction Light 850nm

CEL-LI-IR850-DCW-PCFL - LED Aircraft Warning Light

Key features
- Based on LED technology
- Extremely reliable -long lifetime
- Suitable for off-shore use
- Very low power consumption
- 10-60V$_{DC}$ 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 100,000hrs of operation

Electrical characteristics
- Nominal operating voltage 10-60V$_{DC}$
- Power consumption less than 4W
- 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°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
- Infrared Light unit only: CEL-LI-IR850-230-F

Order Code: **CEL-LI-IR850-DCW-PCFL**

Made in EU

CEL-LI-IR850-DCW-PCFL

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

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

OPERATING VOLTAGE
230 V$_{AC}$

CAUTION ! LED RADIATION
DO NOT STARE INTO LED BEAM OR VIEW
DIRECTLY WITH OPTICAL INSTRUMENTS.
CLASS 2A LED PRODUCT

www.contarnex.com

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ELECTRICAL INSTALLATION INSTRUCTIONS

CEL-LI-IR850-DCW-PCFL has two cable glands for easy chaining without external distribution boxes

CEL-LI-IR850-DCW-PCFL is an obstacle light utilising LED technology.
The cabling and installation principles are similar to those of conventional obstacle lights.
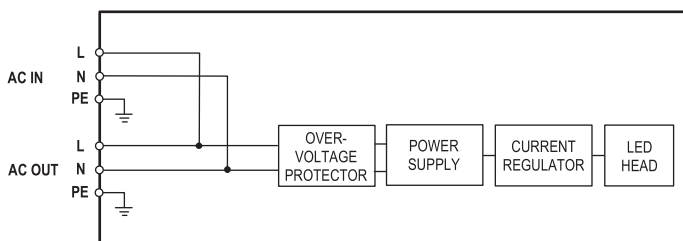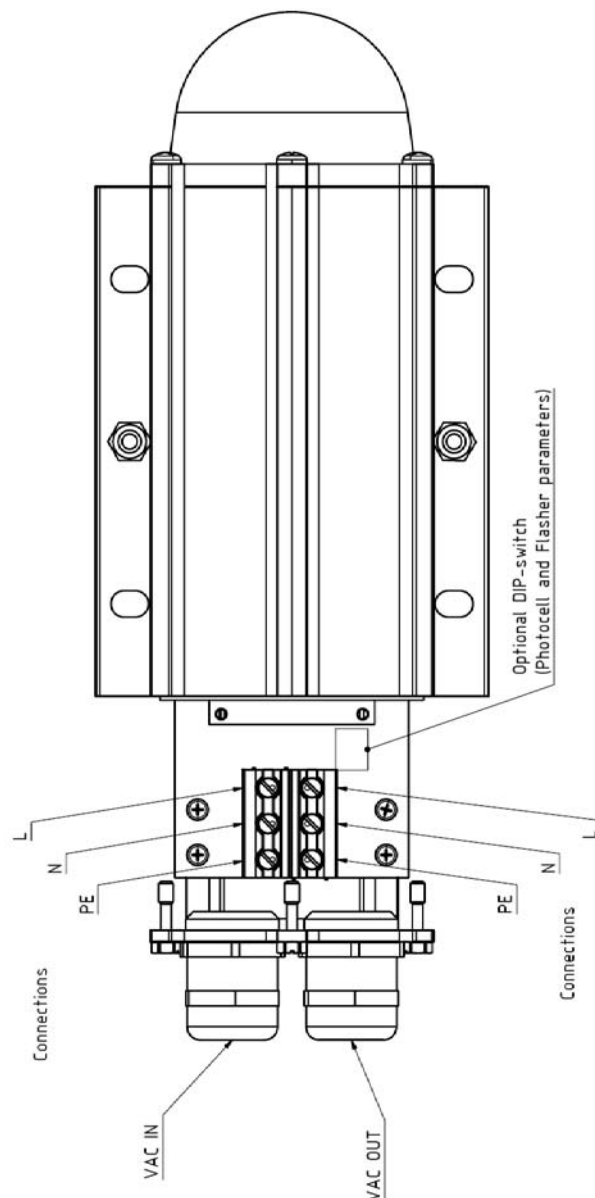
Connection can be protected with a 6A or 10A fuse or with a circuit breaker (C curve).

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

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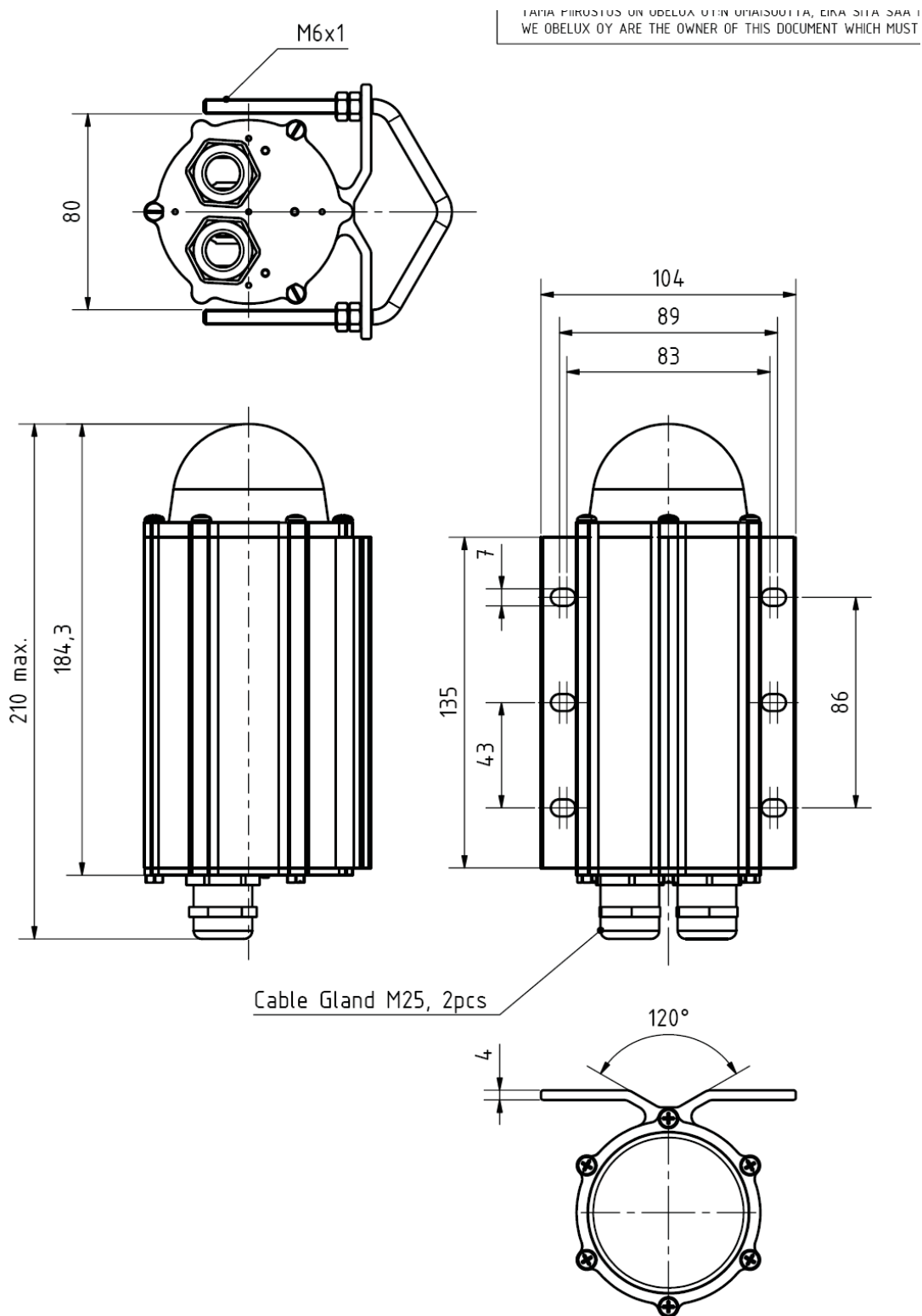 Set include 2 pcs M20 cable glands with M25-M20 adapters for 7-13 mm cables

CEL-LI-IR850-230-F block diagram

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AVIATION LIGHTING

10-60V$_{DC}$ Infrared Obstruction Light 850nm

CEL-LI-IR850-DCW-PCFL - LED Aircraft Warning Light

Mechanical Dimensions

M6x1

TÄMÄ PIIRUSTUS ON OBELUX OY:N OMAISUUTTA, EIKÄ SITÄ SAA T
WE OBELUX OY ARE THE OWNER OF THIS DOCUMENT WHICH MUST

80

104
89
83

210 max.
184,3

135
7
43
86

Cable Gland M25, 2pcs

120°
4

CEL
AVIATION LIGHTING

10-60V$_{DC}$ Infrared Obstruction Light 850nm
CEL-LI-IR850-DCW-PCFL - LED Aircraft Warning Light

There are several types of mounting sets available as option:

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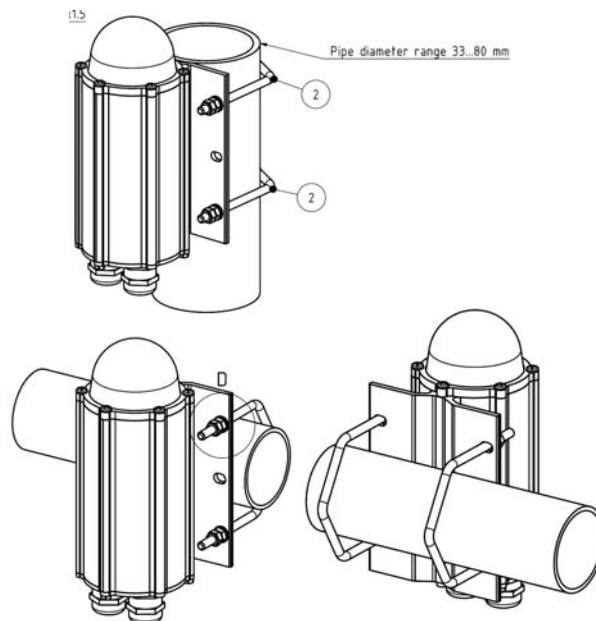Mounting set for 33-80mm vertical or
horizontal pipe

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
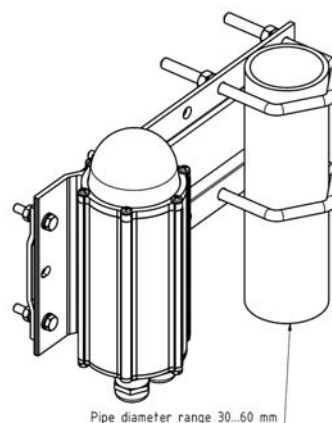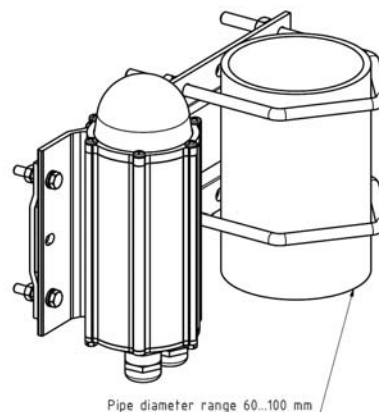for 30-60mm vertical pipe installation

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 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 60-100mm 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 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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CEL-LI-IR850-DCW-PCFL - LED Aircraft Warning Light
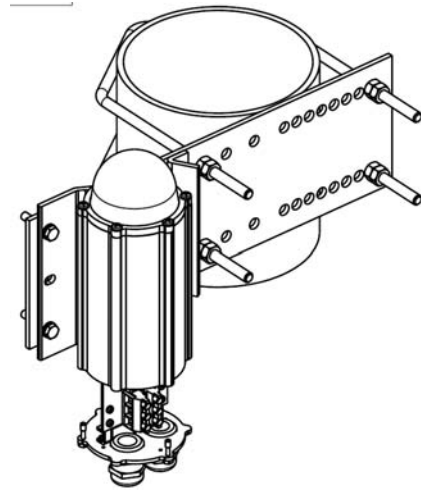
CEL-MS-EV150:

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

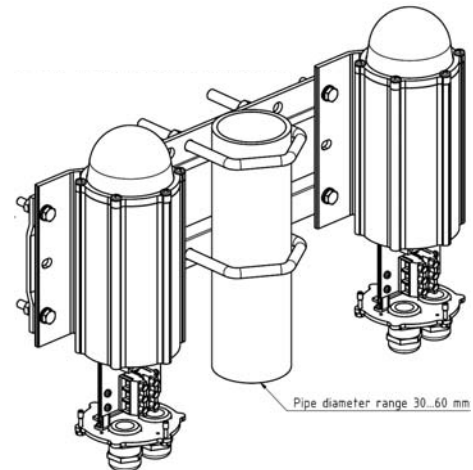Order Code: **CEL-MS-EV150**

CEL-MS-DV60:

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-DV60 datasheet

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

Pipe diameter range 30...60 mm
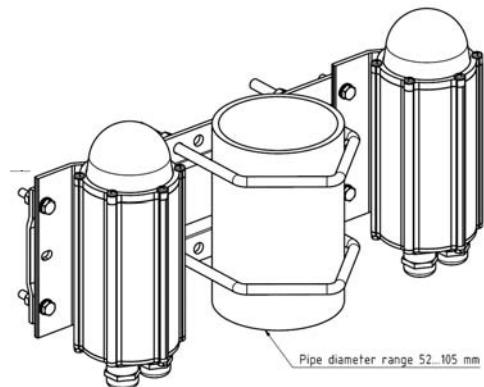
CEL-MS-DV100:

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-DV100 datasheet

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

Pipe diameter range 52...105 mm

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CEL-MS-RW

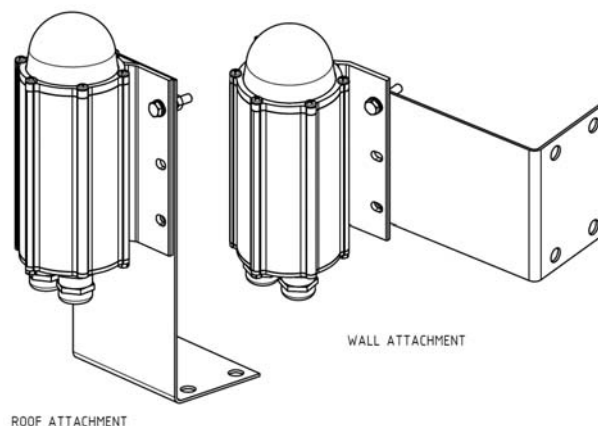Mounting set for horizontal plate or wall installation

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

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

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

WALL ATTACHMENT

ROOF ATTACHMENT

CEL-MS-LV U

Mounting set for L and V -shape profiles
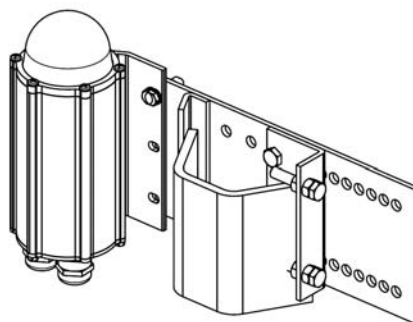
Mounting set include
- 1 set accessories for light unit fitting to plate
- 1 pcs extension plate with adjusting plate and accessories

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 datasheet

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

1 NPT

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