10cd Low-intensity Obstruction Light
230V\textsubscript{AC} - ICAO Type A

CEL-LI-10-230-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\textsubscript{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

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\textsubscript{AC}
- Power consumption less than 3VA, 1.5W
- Operating voltage range 210 to 270V\textsubscript{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 1.5-6mm\textsuperscript{2} 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
- Light unit with Photocell & Flasher: CEL-LI-10-230-PCFL

Order Code: CEL-LI-10-230-F
ELECTRICAL INSTALLATION INSTRUCTIONS

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

CEL-LI-10-230-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 17mm
- Wire diameter: max. 6mm²
- Recommended cable: 3x1.5mm² or 3x2.5mm²

Options

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

![Diagram of the mechanical dimensions of the light fixture]

- Cable Gland M25, 2pcs
- 120°
There are several types of mounting sets available as option:

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

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**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**

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