32cd Low-intensity Obstruction Light with Photocell & Flasher
10-60VDC - ICAO Type B. FAA L-810.
CEL-Ll-32-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
- Wide 10 to 60VDC input voltage
- Stabilised light output
- Lightweight and small - low wind load factor
- 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:
  Chapter 6: Low-intensity, Type B Fixed Obstacle Light
  - FM 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 100,000 hrs of operation

Electrical characteristics
- Input voltage range 10-60VDC
- Power consumption less than 3W
- 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 +55°C
- Height 210mm, diameter 104mm, weight 1.1kg
- Wind load with CEL-MS-EV60 mounting kit @ 200km/h less than 40N

Options
- Mounting kits
- Without Photocell & Flasher: Ref CEL-LI-32-DCW-F datasheet

Order Code: CEL-LI-32-DCW-PCFL
32cd Low-intensity Obstruction Light with Photocell & Flasher
10-60VDC - ICAO Type B. FAA L-810.
CEL-LI-32-DCW-PCFL - LED Aircraft Warning Light

ELECTRICAL INSTALLATION INSTRUCTIONS

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

CEL-LI-32-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: 3x1.5mm² 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

<table>
<thead>
<tr>
<th>DIP1</th>
<th>DIP2</th>
<th>DIP3</th>
<th>DIP4</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>200 lux</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>400 lux</td>
<td>ON</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>800 lux</td>
<td>ON</td>
</tr>
</tbody>
</table>

Default DIP settings: 800 lux, steady burning

Flash duration: 250 ms

LI-32-DCW-PCFL block diagram
32cd Low-intensity Obstruction Light with Photocell & Flasher
10-60VDC - ICAO Type B. FAA L-810.
CEL-LI-32-DCW-PCFL - LED Aircraft Warning Light

Mechanical dimensions
There are several types of mounting sets available as option:

**CEL-MS-HV8O**
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-HV8O datasheet
Order Code: **CEL-MS-HV8O**

**CEL-MS-EV60**
Mounting set with extension plate for 30-60mm vertical pipe installation
Mounting set include:
- 2 pcs M8 U-bolt, 8 pcs M6 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 M6 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**
32cd Low-intensity Obstruction Light with Photocell & Flasher 10-60VDC - ICAO Type B. FAA L-810.
CEL-LI-32-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-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
**32cd Low-intensity Obstruction Light with Photocell & Flasher**

**10-60VDC - ICAO Type B. FAA L-810.**

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

---

**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**

---

**CEL-MS-LVU**

Mounting set for Land 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-N1B datasheet

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