10cd Low-intensity Obstruction Light - Photocell & Flasher
10-60V\text{DC} - ICAO Type A

CEL-LI-10-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
- Easy to install, several mounting sets available
- Two cable glands, easy to chain without terminal boxes
- No RF-radiations
- Five (5) years 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 10-60V\text{DC}
- Power consumption less than 1W\text{@} 12VDC, 1.1W\text{@} 24 DC, 1.2W\text{@} 48VDC
- Current consumption when light is OFF: 2mA
- 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 +55°C
- Height 210mm, diameter 104mm, weight 1.1 kg
- Wind load with MS-EV60 mounting kit @ 200km/h less than 40N

**Options**
- Mounting kits
- Without Photocell & Flasher: Ref CEL-LI-10-DCW-F datasheet

Order Code: CEL-LI-10-DCW-PCFL

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**Photocell characteristics**
- Turn on delay 1 s
- Turn off delay 200 s
- User selectable photocell sensitivity (bold = factory default)
  - OFF/200 lux/400 lux/800 lux

**Flash controller characteristics**
- User selectable flashing rate (bold = factory default)
  - Steady burning/20 tpm/40 tpm/60 tpm
- 250ms flash duration
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ELECTRICAL INSTALLATION INSTRUCTIONS

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

CEL-LI-10-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 7-13mm cables

PCFL DIP switches

<table>
<thead>
<tr>
<th>OFF</th>
<th>ON</th>
<th>DIP3</th>
<th>DIP4</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
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<td>OFF</td>
<td>200 lux</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>400 lux</td>
<td>40 lux</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>800 lux</td>
<td>60 lux</td>
</tr>
</tbody>
</table>

Default DIP settings: 800 lux, steady burning

Flash duration: 250 ms

LI-10-DCW-PCFL block diagram
10cd Low-intensity Obstruction Light - Photocell & Flasher
10-60V<sub>DC</sub> - ICAO Type A
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**Mechanical dimensions**
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
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: 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: 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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10cd Low-intensity Obstruction Light - Photocell & Flasher
10-60\text{V}_\text{DC}. ICAO Type A

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**CEL-MS-RW**
Mounting set for horizontal plate or wall installation

- 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-LVU**
Mounting set for L and V -shape profiles

- 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**