100cd Low Intensity Obstruction Light
CASA 139 - LED Aircraft Warning Light
CEL-LI-100-DCW-F

Key features
- Based on LED technology
- Extremely reliable - long lifetime
- Suitable for off-shore use
- Very low power consumption
- Wide 12 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 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:
- CASA 139

Optical characteristics
- Intensity better than 100cd
- Colour aviation red
- Horizontal radiation pattern 360°
- vertical beam spread (to 50% of peak intensity) of 10°;
- vertical distribution with 100 cd minimum at +6° and +10° above the horizontal
- 10 cd at all elevation angles between -3° and +90°
- LED supply current stabilised by constant current generator
- Light output degradation less than 30% after 100,000hrs of operation

Electrical characteristics
- Input voltage range 12 to 60VDC
- Power consumption less than 7.5W
- 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 -40°C to +60°C
- Height 210mm, diameter 104mm, weight 1.2kg
- Wind load with CEL-MS-EV60 mounting kit @200km/h less than 40N

Options
- Mounting kits
- Photocell & Flasher: CEL-LI-100-DCW-PCFL

Order Code: CEL-LI-100-DCW-F
ELECTRICAL INSTALLATION INSTRUCTIONS

CEL-LI-100-DCW-F has two cable glands for easy chaining without external distribution boxes

CEL-LI-100-DCW-F is an obstacle light utilizing 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: 6 to 17mm
- Wire diameter: max. 6mm²
- Recommended cable: 3x1.5mm² or 3x2.5mm²
Mechanical dimensions

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

**CEL-MS-LVU**
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 galvanized steel, other parts AISI 316 acid proof steel
More detailed mechanical data: 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: MS-N1B dataheet
Order Code: **CEL-MS-N1B**