Medium Intensity 20,000 cd white LED
ICAO Type A. FAA L-865 L-866.
LED Flashing aviation obstruction light
CEL-MI-20KW-x

Key features
- Based on LED technology
- 20,000/2,000 cd effective flashing white
- Extremely reliable - long lifetime
- Very low power consumption
- Stabilised light output
- Lightweight and small - low wind load factor
- Easy to install
- Patented
- Very low total lifetime costs
- Comes with five (5) year warranty
- Over 10 year continuous, maintenance free operating time
- Controlled by CEL LHC Light Head Controller

Specifications met
- FAA Advisory Circular 150/5345-43F 09/12/06: L-865 and L-866
- ICAO International Standards and Recommended Practices:
    - Chapter 6: Medium-intensity Type A Obstacle Light
  - Certified by STAC France and FVT Germany

Optical characteristics
- 20,000 cd effective intensity @ day mode
- 2,000 cd effective intensity @ night mode
- Colour aviation white
- Horizontal radiation pattern 360°
- Vertical radiation pattern 3°

Electrical characteristics (with LHC)
- Operating voltages 24 or 48VDC, 115 or 230VAC
- Constant power input by active PFC
- Operating temperature range -55 ... + 70°C
- Storage temperature range -55 ... +100°C
- Flash rates: 20, 40 and 60 fpm
- Flash durations: 100, 150, 200 and 250 ms
- Power consumption @ 20 fpm, 100 ms:
  - Day mode: 65 VA
  - Night mode: 30 VA
- LED supply current stabilised by constant current generator

Order codes:
- CEL-MI-20KW-V with vertical mounting set
- CEL-MI-20KW-H with horizontal mounting set

Mechanical characteristics
- Anodised marine grade aluminium body
- Glass cover
- Degree of protection IP65
- Height 453mm, diameter 255mm
- Mounting set - V or - H include
- Light unit weight 16.5kg without mounting set
- Wind load 1200 N with mounting set @ 200 km/h
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Mounting set -V. Mounting to vertical pipe:

Mounting set -H. Mounting to horizontal surface:

Dimensions are subject to change, please contact us for up-to-date detail.
INSTALLATION INSTRUCTIONS

LIGHT HEAD TERMINAL BOX CONNECTIONS

CEL-MI-20KW light head is connected to light head controller, LHC, via terminal box installed in light head. LHC provides light head’s supply voltage and flash control with separate cables which are connected to light head’s terminal box.

Terminal box connection instructions and cable recommendations:

<table>
<thead>
<tr>
<th>To lamp</th>
<th>Power in</th>
<th>Control in CATS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x2.5 + 4x1 mm²</td>
<td>3x6 mm²</td>
<td>CATS</td>
</tr>
<tr>
<td>1 = DC+</td>
<td>br = DC+</td>
<td>or/wh = SYNC+</td>
</tr>
<tr>
<td>2 = DC-</td>
<td>bk = DC-</td>
<td>or = SYNC-</td>
</tr>
<tr>
<td>3 = NC</td>
<td>wh = NC</td>
<td></td>
</tr>
<tr>
<td>ye/gr = PE</td>
<td>shield = PE</td>
<td></td>
</tr>
<tr>
<td>7 = SYNC+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 = SYNC-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shield = PE</td>
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</tbody>
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POWER AND CONTROL CABLES