



Medium Intensity Red 2,000cd Light 230VAC - LED Aircraft Warning Light CEL-MI-ICAO-xx-2KR-IR-x

Medium-Intensity stand-alone 2,000cd red aviation lights are used for marking tall vertical structures, such as skyscrapers, wind turbines, chimneys, broadcast masts, bridges, etc.

Designed for wind turbines in demanding offshore conditions, this product offers unique features such as integrated: fault monitoring, photocell, GPS synchronisation and a cold climate option.

This light supports both stand-alone operation and RS-485 Modbus communication into larger aviation light system networks. Modbus LAN TCP/IP available as an option.

Key features

- Design lifetime more than 20yrs
- Based on LED technology
- 2,000cd RED fixed or flashing
- Supports both stand-alone and RS-485 Modbus operations
- Suitable for Offshore environment
- Built-in GPS synchronisation
- Built-in photocell
- Built-in cold climate version (CCV), i.e. temp-controlled heater
- Built-in fault monitoring
- Dry contact alarm relay
- Visibility sensor adjustable luminous output - 10%, 30%, and 100%
- Hot start for radar-controlled systems
- Easy to chain (no need for junction box)
- WIFI interface
- Embedded Web Server
- 5yr warranty
- Option for 10yr warranty, the longest in the industry

Optical characteristics

- 2,000cd fixed or flashing
- Configurable for 200cd
- Colour aviation RED
- NVG compliant infrared (850nm)
- Horizontal beam 360°
- Vertical beam > 3°
- Maximum intensity at -1° is less than 1,125cd
- Maximum intensity at -10° is less than 75cd

Electrical characteristics

- Operating voltage (AC): 100-240VAC, 50Hz/60Hz
- Operating voltage (DC): 10-30VDC, 20-60VDC
- Flash rates: 20/30/40/60fpm



CEL-MI-ICAO-Basic/Enhanced

Electrical characteristics - continued

- Meets standards
 - EMC (Emissions): EN 61000-6-4
 - EMC (Immunity): EN 61000-6-2
- Power consumption for ICAO AC/DC versions (excl. CCV feature)
 - o Power consumption of 4.5W @ 2,000cd (RED, 40fpm)
 - o Power consumption of 6.5W @ 2,000cd (RED+IR, 40fpm)
 - o Power consumption of 26W @ 2,000cd (RED, fixed)
 - o Power consumption of 28W @ 2,000cd (RED+IR, fixed)
 - o Power consumption of 3W @ 200cd RED fixed
 - o Power consumption of 6W @ 200cd RED fixed + IR
- Recommended cables (Outdoor) for AC versions:
 - o Power (L-N-PE): 3x1,5mm or 3x2,5mm - shielded



T: +44 (0)20 8540 1034
F: +44 (0)20 8543 3058
E: info@contarnex.com

Contarnex Europe Limited
252 Martin Way,
Morden, Surrey SM4 4AW
United Kingdom



Medium Intensity Red 2,000cd Light 230VAC - LED Aircraft Warning Light CEL-MI-ICAO-xx-2KR-IR-x

Specifications met

- ICAO International Standards and Recommended Practices: Aerodromes Annex 14 Volume 1, 8th Edition, July 2018, Chapter 6: Medium-intensity Type B/C. Fulfills the recommendations Table 6-3.
- *1,125cd Maximum Intensity @ vertical elevation angle -1°
- *75cd Maximum Intensity @ vertical elevation angle -10°
- ICAO International Standards and Recommended Practices:
- European Aviation Safety Agency - Chapter Q — Visual Aids for Denoting Obstacles CS-ADR-DSN.Q.848
- FAA Advisory Circular 150/534543F 09/12/06: L-864 and L-885

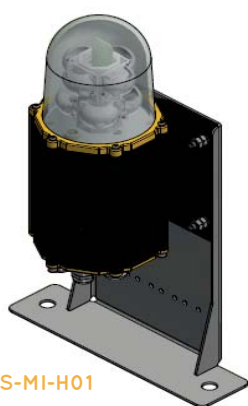
Mechanical characteristics

- Anodised, marine grade aluminum body and end parts
- AISI 316 acid-proof stainless-steel screws
- Glass dome
- Degree of protection IP66
- Operating temperature range -40...+55°C
- Storage temperature range -40...+55°C
- Height 347mm, width 160mm
- Weight 4,3kg (without mounting set)
- Easy to chain via Data cable and via Power cable (no need for junction box)
- 2 x M25 (6-17mm) cable glands and 2 x M20 (6-12mm) cable glands

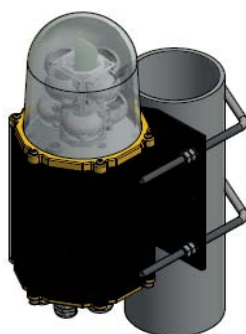
Additional Factory-Installed Options

- 4 x Input and 4 x Output (IO)
- Ethernet Switch, 2 x fiber SC multimode Female, 2 x copper RJ45 (EF)
- 1 x Ethernet copper RJ45 (E)
- 10yr warranty

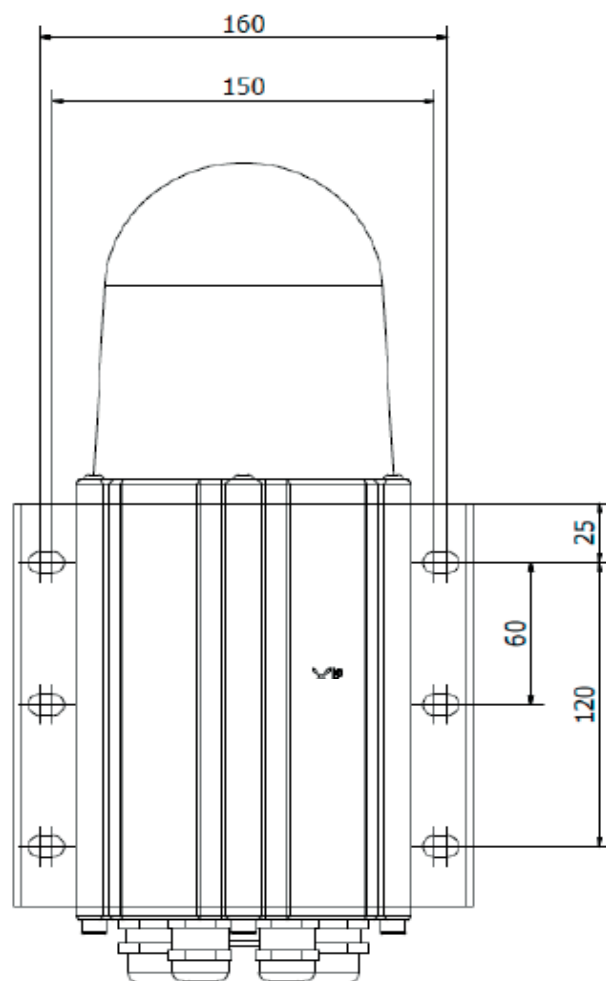
Available Mounting Sets Options



CEL-MS-MI-H01



CEL-MS-MI-V01



CEL-MS-MI-H01 & CEL-MI-H02 (290mm wide)

- This mounting set includes
- 1 x Mounting Bracket
 - 4 x M8 A4 DIN933 Screws
 - 4 x M8 A4 DIN125 Washers
 - 8 x M8 A4 DIN934 Nuts

CEL-MS-MI-V01

- This mounting set includes
- 2 x M8 U-bolts
 - 8 x M8 A4 DIN934 Nuts
 - 4 x M8 A4 DIN125 Washers

All fasteners are AISI316 acid-proof stainless steel

Order code	Output	Specification	Op. volt.	GPS	Infrared	CCV	Photocell	Alarm Relay	RS-485
CEL-ICAO-AC-2KR-IR-B	2,000cd	Type B/C	100-240 VAC	Yes	Yes	No	Yes	Yes	Yes
CEL-ICAO-AC-2KR-IR-E	2,000cd	Type B/C	100-240 VAC	Yes	Yes	Yes	Yes	Yes	Yes
CEL-ICAO-DC1224-2KR-IR-B	2,000cd	Type B/C	10-30VDC	Yes	Yes	No	Yes	Yes	Yes
CEL-ICAO-DC2448-2KR-IR-B	2,000cd	Type B/C	20-60VDC	Yes	Yes	No	Yes	Yes	Yes
CEL-ICAO-DC1224-2KR-IR-E	2,000cd	Type B/C	10-30VDC	Yes	Yes	Yes	Yes	Yes	Yes
CEL-ICAO-DC2448-2KR-IR-E	2,000cd	Type B/C	20-60VDC	Yes	Yes	Yes	Yes	Yes	Yes

B = Basic, E = Enhanced also includes ICAO Annex 14 recommended practises

T: +44 (0)20 8540 1034 F: +44 (0)20 8543 3058 E: info@contarnex.com www.contarnex.com
Contarnex Europe Limited. 252 Martin Way, Morden, Surrey SM4 4AW United Kingdom

Technical information in this document is subject to change without notice. Copyright© CEL2020 Jan 2020

CEL
AVIATION LIGHTING