

Medium Intensity 2,000cd red - Stand alone

10-60VDC - LED Aircraft Warning Light

ICAO Type B&C. FAA L-864 & L-885.

CEL-MI-2KR-DCW-A

Key features

- Based on LED technology
- 2,000cd fixed / flashing red light
- Stand alone unit with integrated power supply, fault monitoring, and day/night switch using photocell
- Integrated GPS for flash synchronisation as an option
- Fault monitoring through alarm relay and RS-485
- Communication over RS-485 or Ethernet/IP
- Easy to chain (Power and Master/Slave synchronisation)
- More than 10 year continuous maintenance-free operating time
- Very low power consumption
- Stabilised light output
- Lightweight and small low wind load factor
- Dimmable down to 30% and 10%
- Integrated infrared (IR) light as an option
- Comes with five (5) year warranty
- Patented

Specifications met

- ICAO International Standards and Recommended Practices: Aerodromes Annex 14 Volume 1, 5th Edition, July 2009, Chapter 6: Medium Intensity Obstacle Light
- FAA Advisory Circular 150/5345-43F 09/12/06: L-864 and L-885 light unit

Optical characteristics

- Intensity: 2,000cd
- Colour: Aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 3°
- Flash rates: 20fpm, 30fpm, 40fpm, 60fpm and steady-burning

Electrical characteristics: AC model

- Operating voltage range 115/230V_{AC} (± 10 %)
- Operating mains frequency 50/60Hz (± 6 %)
- Power consumption 33W 44VA @ steady burning
- Power consumption 2.8W @ 20fpm
- LED supply current stabilised by constant current generator

Electrical characteristics: DC model

- Operating voltage range 10V_{DC} ... 60V_{DC}
- Power consumption 28W @ steady burning
- Power consumption 2.3W @ 20fpm



CEL-MI-2KR-DCW-A
(Illustration)

Mechanical characteristics

- Light head chassis: Anodised marine-grade aluminium
- Light head cover: Glass
- Terminal box: Polycarbonate
- Ingress protection IP65
- Operating temperature range -40 °C .. +55 °C
- Storage temperature range -55 °C ... +100 °C
- Height 456mm, diameter 160mm
- Light unit weight 4.2kg without mounting set
- Wind load 400N with mounting set @ 200km/h

Shipping

- Dimensions: 60cm x 40cm x 40cm
- Weight: 13kg

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How to order:

1. Select light head according to supply voltage:

Order code for light head	
Product code	Supply voltage
CEL-MI-2KR-230-A	230V _{AC}
CEL-MI-2KR-115-A	115V _{AC}
CEL-MI-2KR-DCW-A	10V _{DC} ... 60V _{DC}

Other supply voltages are available on request.

2. Select mounting set according to local requirements:

Order code for mounting set	
CEL-OPT-MSV-2KR-A	Set for vertical mounting
CEL-OPT-MSH-2KR-A	Set for horizontal mounting
CEL-OPT-MSP-2KR-A	Set for plate mounting

3. Select factory-installed options if needed:

Order code for factory-installed options	
CEL-OPT-GPS-2KR-A	GPS synchronisation including integrated GPS antenna
CEL-OPT-LAN-2KR-A	Ethernet interface remote control
CEL-OPT-IR-2KR-A	Infra-red (IR) light - IR wavelength at 855 nm Compatible with Night Vision Goggles IR light power consumption: 6W @ steady burning 0.5W @ 20fpm

Alarm relay characteristics

- Two pole contacts: Normally Open (NO) and Normally Closed (NC)
- Active when unit is powered
- Switch voltage (max): 110V_{DC} or 125V_{AC}
- Switch current (max): 1A
- Switch power (max): 30W
- Contact resistance 0.1 ohm

Recommended cables

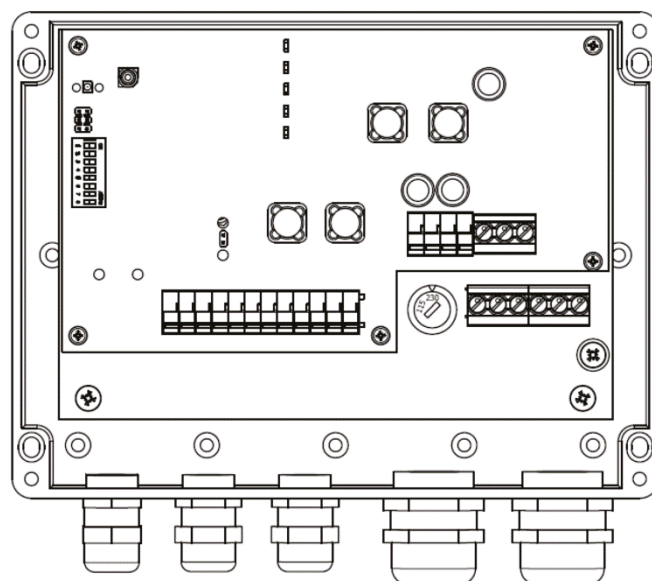
Recommended cables	
Alarm	CAT 7 (Outdoor)
Data	CAT 7 (Outdoor)
Power supply	3 x 2.5mm ² (Outdoor) L-N-PE

Available cable glands

Alarm/Data In	M16 (cable diameter 6-10mm)
Alarm/Data out	M16 (cable diameter 6-10mm)
Power supply line	M25 (cable diameter 11-17mm)
Power supply line	M25 (cable diameter 11-17mm)

One cable gland (M16) is reserved - it is used to connect terminal box with the light head.

Illustration of cable glands in terminal box:



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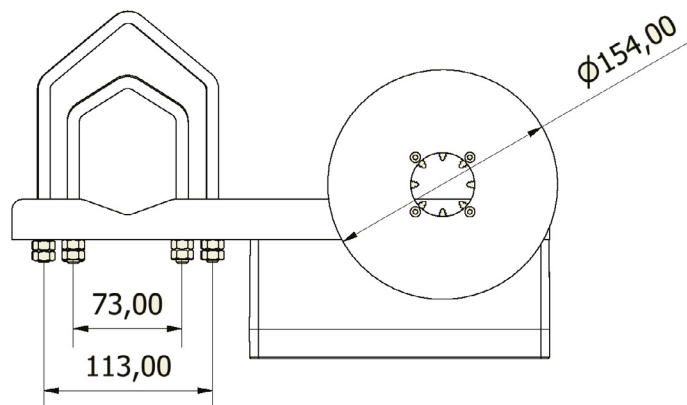
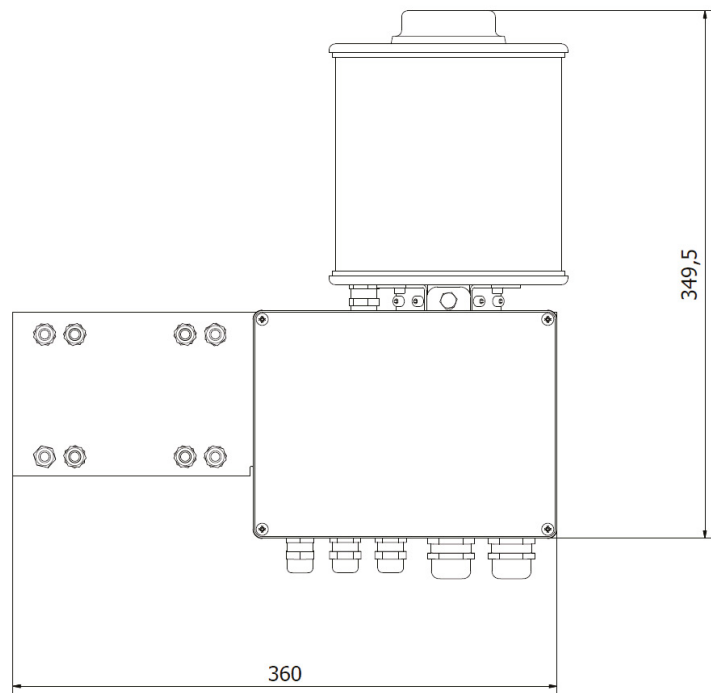
Page 3 of 6

CEL-MI-2KR-DCW-A with vertical mounting set CEL-OPT-MSV-2KR-A

Mounting plate, U-bolts, hex nuts (A4):
AISI 316 acid-proof stainless steel

Mounting set weight: 1.0kg

Dimensions are in mm.



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CEL-MI-2KR-DCW-A

Page 4 of 6

CEL-MI-2KR-DCW-A with horizontal mounting set CEL-OPT-MSH-2KR-A

Mounting plate:

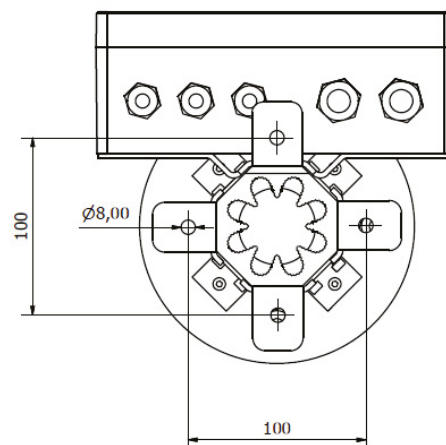
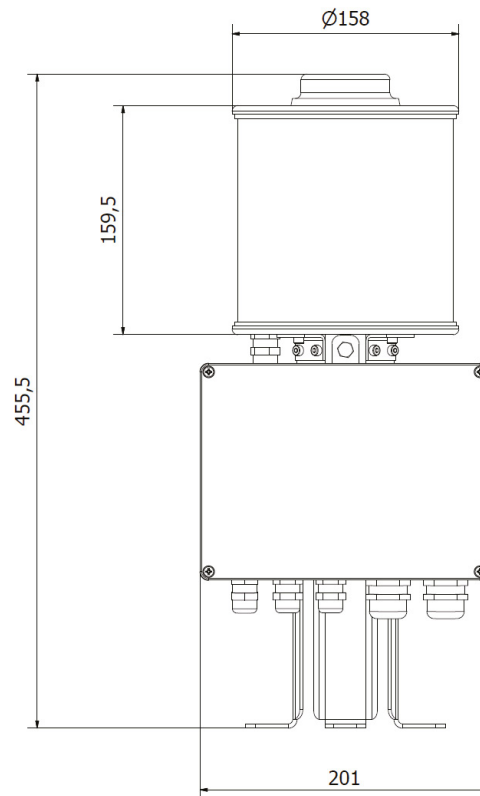
Anodised aluminium

U-bolts, hex nuts (A4):

AISI 316 acid-proof stainless steel

Mounting set weight: 0.5kg

Dimensions are in mm.



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CEL-MI-2KR-DCW-A

Page 5 of 6

CEL-MI-2KR-DCW-A with horizontal mounting set CEL-OPT-MSP-2KR-A

Mounting plate:
Anodised aluminium
Colour: black

U-bolts, hex nuts (A4):
AISI 316 acid-proof stainless steel

Mounting set weight: 2.2kg

Dimensions are in mm.

