cel
AVIATION LIGHTING

Medium Intensity 2,000cd red 24VDC - LED Aircraft Warning Light ICAO Type B & C. FAA L-864 & L-885.

CEL-MI-2KR-24-x

Key features
- Based on LED technology
- 2,000cd steady burning red light
- 2,000cd flashing red with CSW flash controller unit or PCFL device
- Extremely reliable - long lifetime
- Very low power consumption
- 24V$_{DC}$ nominal operating voltage
- Stabilised light output
- Lightweight and small - low wind load factor
- Easy to install
- No RF-radiations
- Long maintenance intervals
- 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, Type C Fixed Obstacle Light
- FM Advisory Circular 150/5345-43F 09/12/06: L-864 and L-885 light unit
- Certified by STAC France and FVT Germany

Optical characteristics
- Intensity 2,000cd
- Colour aviation red
- Horizontal radiation pattern 360°
- Vertical radiation pattern 3°
- More than 10 year continuous maintenance free operating time

Electrical characteristics
- Operating voltage range 22 ... 30V$_{DC}$
- Power consumption 28W @ steady burning
- Power consumption 2.3W @ 20 fpm and 250ms
- Constant current 1.2A @ 24V$_{DC}$
- Operating temperature range -55 ... +55°C
- Three-stage overvoltage protection
- LEDs in several separate groups
- LED supply current stabilised by constant current generator

Mechanical characteristics
- Anodised aluminium body
- Glass cover
- Terminal box for 1.5 ... 6mm^2 wires
- Degree of protection IP65
- Height 284mm, diameter 154mm,
- Mounting set -V or -H and terminal box include
- Light unit weight 3kg without mounting set
- Wind load 500N with mounting set @ 200km/h

CEL-MI-2KR-24-x   without mounting set

Options
- CSW-24-x-F flash controller
- CSW-24-x-F-GPS flash controller with global flash sequency synchronisation by GPS-UTC time
- CSW-24-x-F-GSM controller with GSM communication
- PS-24-3A5 power supply, 230V$_{AC}$ / 24V$_{DC}$ 3.5A
- PS-24-3A5-PCFL power supply with flash controller and photocell
- Battery back-up system
- Solar operated power supply system (SPOL)
- Mounting kits

Order code:
CEL MI-2KR-024-V
    [1] [2]   [3] [4]

[1] **Series**
MI: Medium Intensity

[2] **Luminous intensity and light colour**
2KR: 2,000 cd, Red

[3] **Operating Voltage**
12: 12V$_{DC}$
24: 24V$_{DC}$
48: 48V$_{DC}$
115: 115V$_{AC}$
230: 230V$_{AC}$

[4] **Mounting set**
V: Mounting to vertical pipe
H: Mounting to horizontal plate

⚠ **OPERATING VOLTAGE**
24 V $_{DC}$

CAUTION ! LED RADIATION
DO NOT STARE INTO LED BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. CLASS 2A LED PRODUCT

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Medium Intensity 2,000cd red
24VDC - LED Aircraft Warning Light
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CEL-MI-2KR-24-x

CEL-MI-2KR-24-x is an obstacle light utilizing LED technology. The cabling and installation principles are similar to those of conventional obstacle lights, the only exception being the correct polarity required by DC feed.
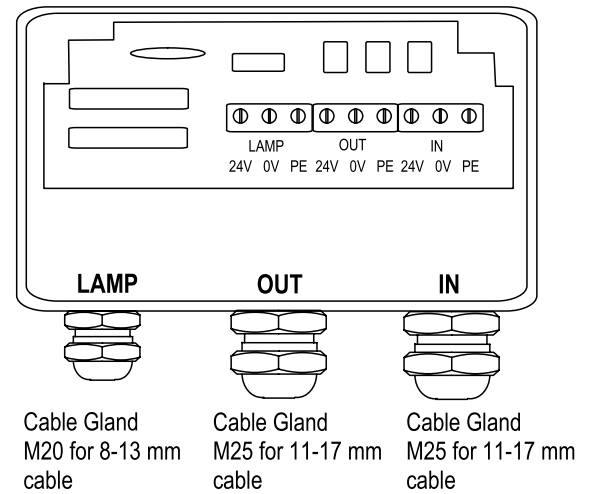
Terminal box include screw terminals and overvoltage protectors. The polarity is:

Blue   -
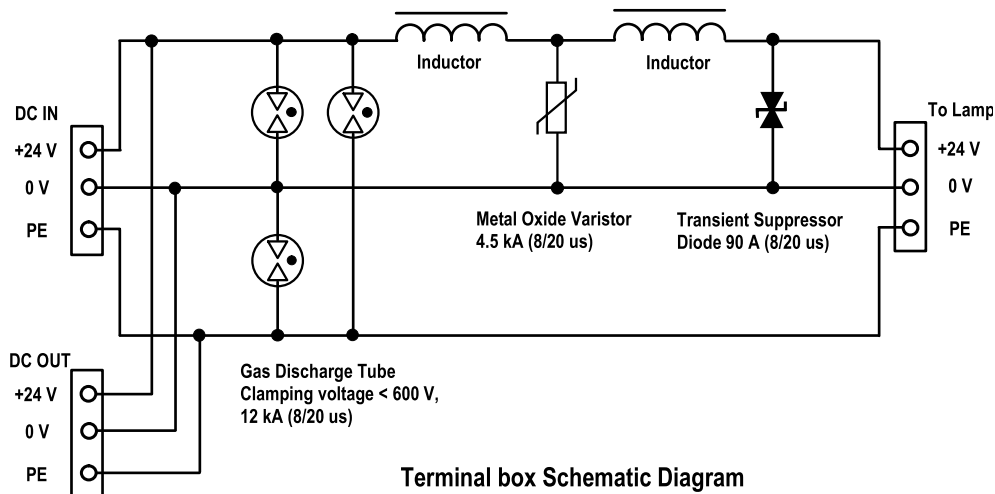Black   +
Yellow-Green PE

All connection alternatives can be protected with a 6A or 10A fuse or with a circuit breaker (C curve).
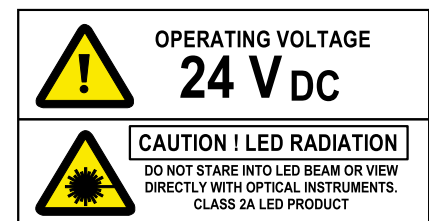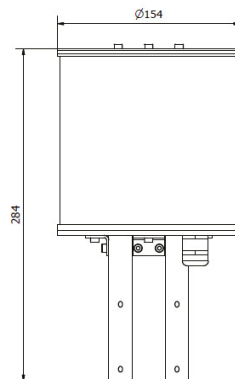
Installation specifications
- Cable gland: M25
- Cable diameter: 11 ... 17mm
- Wire diameter: max. 6mm^2
- Recommended cable: 2x1.5+1.5 or 2x2.5+2.5mm^2

Cable Gland M20 for 8-13 mm cable

Cable Gland M25 for 11-17 mm cable

Cable Gland M25 for 11-17 mm cable

Terminal box

Terminal box Schematic Diagram

OPERATING VOLTAGE
24 V DC

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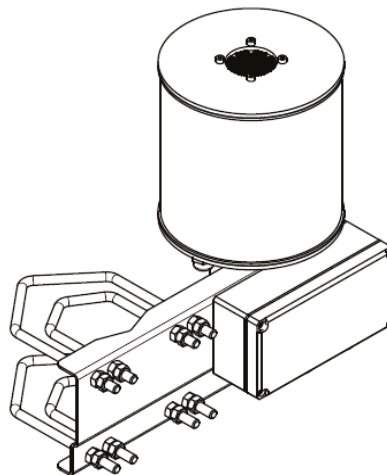CEL AVIATION LIGHTING

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CEL-MI-2KR-24-x

CEL-MI-2KR-24-V
Light unit with -V mounting set. Mounting to Vertical pipe

Mounting plate, U-bolts, hex nuts: Acid Proof steel
Terminal box: Polycarbonate
Mounting set weight: 0.7kg

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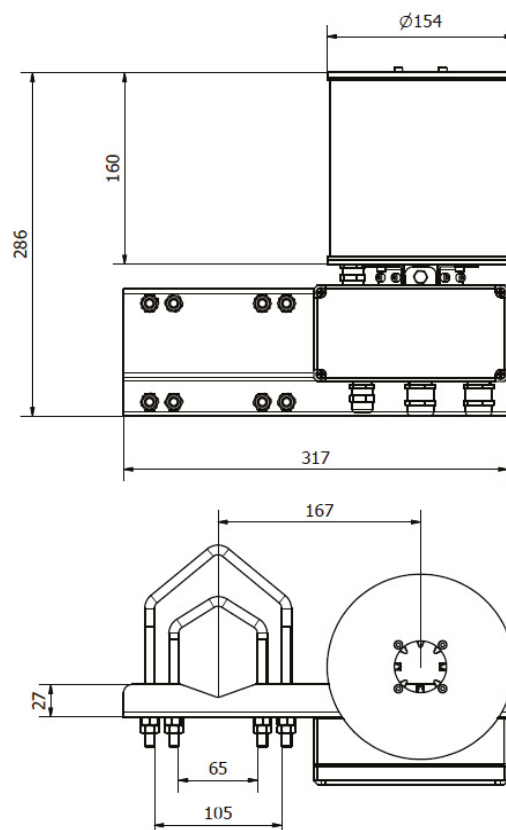
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CEL-MI-2KR-24-x

CEL-MI-2KR-24-H
Light unit with -H mounting set. Mounting to Horizontal plate by L-shape brackets

Mounting plate: Aluminium
U-bolts, hex nuts: Acid Proof steel
Terminal box: Polycarbonate
Mounting set weight: 0.3kg

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