



OPTIONAL

## MEL250L

### High-resolution LED sector light

The MEL250L Port Entry Light (PEL) is a sector leading light of high resolution between its colour sectors, made up of a LED light source, providing a day range of up to 2 nm and a nominal night range of 17 nm.

### Minimum consumption

The main advantage of this beacon is its accuracy between its colour sector boundaries ( $<0.07^\circ$ ). Light emission generates an unidirectional beam in three colours, with a horizontal divergence of up to  $15^\circ$ . Colour sector configuration is expressly done for every case. The use of high intensity LED diodes ensures minimum consumption, maintenance free.

### Designed according to IALA Recommendations

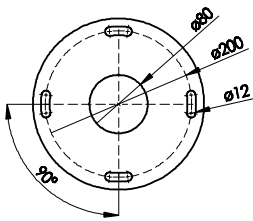
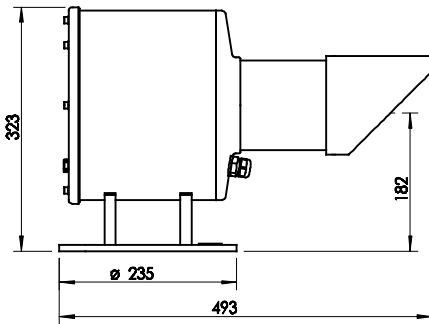
The MEL250L light is designed according to IALA Recommendations and Guidelines, providing complete information to the navigator on their positioning in the leading channel.



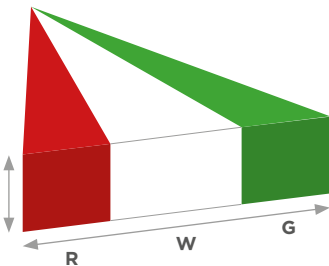
## FEATURES

- *State-of-the-art LED technology.*
- *High-efficiency luminous system and minimum consumption, stabilised against vibrations.*
- *Day range up to 2 nm.*
- *Nominal night range up to 17 nm ( $T=0.74$ ).*
- *Maximum beam width up to  $15^\circ$ .*
- *Average operation lifetime over 25 years.*
- *Stainless-steel and marine-aluminium housing, with polyurethane finish.*
- *Double RS-232 serial port for setting adjustments by PC and remote monitoring system.*
- *Programming, configuration and operating status via PC.*
- *Anti-humidity device to avoid condensation.*
- *High shock resistance.*

# MEL250L



Fixed sectors



## Optical system

|                      |                                   |
|----------------------|-----------------------------------|
| Light source:        | 3 nos. high-intensity LED diodes. |
| Lens:                | Glass aspheric condenser.         |
| Day range:           | Up to 2 nm.                       |
| Nominal night range: | Up to 17 nm (T=0.74).             |
| Power supply:        | From 9 to 30 W.                   |
| Sector accuracy:     | < 0.07°.                          |
| Beam width:          | Up to 15° (5° each color).        |
| Colour sectors:      | Custom-made.                      |
| LED average life:    | More than 100,000 hours.          |

## Electronic control

|                      |                                    |
|----------------------|------------------------------------|
| Circuit:             | Microprocessor controlled.         |
| Settings:            | By microswitches or PC.            |
| Input voltage:       | From 9 to 36 V c.c.                |
| Day/night threshold: | Adjustable between 10 and 400 lux. |
| Power supply:        | Individual for each LED.           |

Automatic & programmable luminous intensity reduction at night.  
Reverse-polarity, short-circuit, over-temperature and transient over-voltage protections.

## Options

- Spike bird deterrent.
- Gunsight for easy alignment.
- A.C. operation.
- Synchronization by cable or GPS module.
- Remote monitoring module via GSM, radio or satellite.
- RS-485 MODBUS serial port.
- MEL250L-HI (High-Intensity version).

## Materials and environment

- Stainless-steel and marine-aluminium housing.
- Outer painting with polyurethane finish.
- Inner painting resistant to high temperatures.
- Eyeshade to avoid reflections.
- Stainless-steel fixing and levelling kit.
- Watertightness degree: IP 67.
- Temperature range: from -30° to 70°C.

## Peak intensities (Cd)

| Colour | MEL250L                            | MEL250L-HI                         |         |         |
|--------|------------------------------------|------------------------------------|---------|---------|
|        | Total horizontal divergence 15°(*) | Total horizontal divergence 15°(*) |         |         |
|        | Power 9 W                          | P: 9 W                             | P: 18 W | P: 30 W |
| White  | 3,600                              | 9,900                              | 17,800  | 27,000  |
| Green  | 2,130                              | 8,900                              | 16,000  | 22,800  |
| Red    | 1,850                              | 4,600                              | 8,400   | 12,000  |

\*Other divergences available.

! Specifications subject to change without previous notice.