#### **LED SECTOR LIGHT**



# **MEL 200L**



The MEL 200L is a sector leading light, whose light source is made of high-intensity LED technology. Designed for port accessing channels during day and night as a single and complete leading station.

Configured individually by units, each element produce one sector of different colour. The union of the elements in a special support allows to obtain the desired sectors configuration.

Light emission generates a highly defined sectorised unidirectional beam with a horizontal divergence maximum of 5° for each element.

Light beam colour sector configuration is expressly done for every case, and always according to IALA Recommendations and Guidelines.

#### **FEATURES**

- $\sqrt{}$  State-of-the-art LED technology.
- √ High-efficiency luminous system and minimum consumption, stabilised against vibrations.
- $\sqrt{}$  Day range up to 3 nm (white colour).
- $\sqrt{\phantom{a}}$  Nominal night range up to 25 nm (white colour).
- $\sqrt{}$  Maximum beam width up to 5°.
- $\sqrt{}$  Average operation lifetime over 25 years.
- $\sqrt{}$  Marine-aluminium housing with hard anodized.
- $\sqrt{\phantom{a}}$  Double RS-232 serial port for setting adjustments by PC and remote monitoring system.
- √ Programming, configuration and operating status via PC or IR programmer.
- $\sqrt{\ }$  Anti-humidity device to avoid condensation.
- $\sqrt{}$  High shock resistance.
- $\sqrt{}$  Minimum or free maintenance.





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| Optical system       |                              |
|----------------------|------------------------------|
| Light source:        | High-intensity LED diodes.   |
| Lens:                | Glass aspheric condenser.    |
| Day range:           | Up to 3 nm (white colour).   |
| Nominal night range: | Up to 25 nm (white colour)). |
| Power supply:        | From 9 to 30W.               |
| Beam width:          | Up to 5° for each element.   |
| Colour sectors:      | Custom-made.                 |
| LED average life:    | More than 100,000 hours.     |

| Materials and environment                                 |
|---|
| Marine aluminium with hard anodized, specially resistant. |
| Stainless-steel fixing and levelling kit.                 |
| Stainless-steel hardware.                                 |
| Eyeshade to avoid reflections.                            |
| Electromagnetic compatibility                             |
| Watertightness degree: IP 68.                             |
| Temperature range: from -30° to 70°C.                     |

| Electronic control  |                                    |  |
|---|------------------------------------|--|
| Circuit:  | Microprocessor controlled.         |  |
| Settings:   | By microswitches or PC.            |  |
| Input voltage:  | From 12 to 35V d.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 and transient over-voltage protections. |                                    |  |

| MEL 200L |       | HORIZONTAL DIVERGENCE 5° (*)<br>PEAK INTENSITIES (Cd) |
|----------|-------|---|
| COLOUR   | White | 20,000  |
|          | Red   | 28,000  |
|          | Green | 65,000  |

(\*) Other custom-made divergences under request.

| Options   |
|---|
| Gunsight for easy alignment.                          |
| A.c. operation.                                       |
| Programmable by IR programmer.                        |
| Synchronization by cable or GPS receiver.             |
| Remote monitoring module via GSM, radio or satellite. |
| RS-485 MODBUS serial port.                            |
| MEL 200L-HI (High-Intensity version).                 |





