

OPTIONAL

MEL500L

High-resolution LED sector light

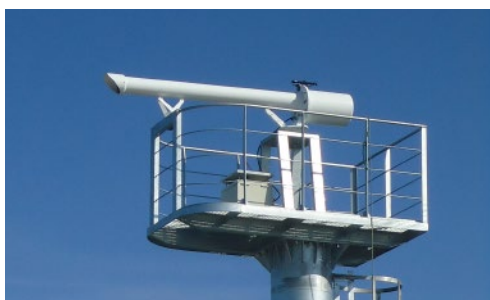
The MEL500L Port Entry Light (PEL) is a sector leading light of maximum resolution between its colour sectors, made up of a LED light source, able to provide a day range of up to 7 nm and a nominal night range of 26 nm.

Minimum consumption

The main advantage of this beacon is its accuracy between its colour sector boundaries ($<0.05^\circ$). Light emission generates an unidirectional beam in three colours, with a horizontal divergence up to 15° . Colour sector configuration is expressly done for every case. The use of high-intensity LED diodes ensures minimum consumption, maintenance free.

Optional oscillating boundaries

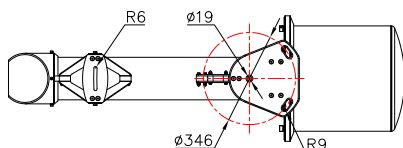
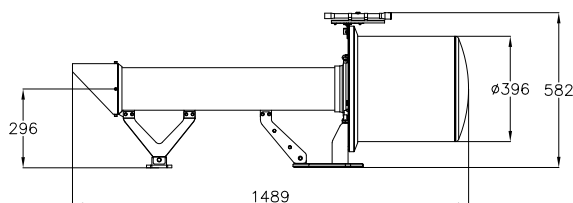
The MEL500L light is designed according to IALA Recommendations and Guidelines, providing a great aid to the navigator to know its position in the channel. As an option, it can be delivered with oscillating boundaries, thus offering accurate information on their lateral distance from the leading axis.



FEATURES

- State-of-the-art LED technology.
- Custom-made configurable colour sectors, maximum definition between their boundaries ($<0.05^\circ$).
- High-efficiency luminous system of minimum consumption (70 W), stabilised against vibrations.
- Day range up to 7 nm.
- Nominal night range up to 26 nm ($T=0.74$).
- Beam width: up to 15° .
- 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.
- Anti-humidity device to avoid condensation.
- Oscillating boundaries as an option.
- Easy alignment by gunsight.

MEL500L

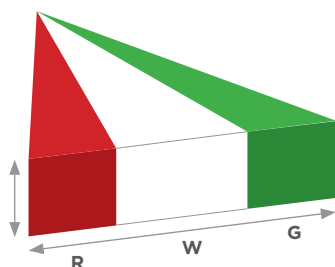


MEL500L 7°

Physical data

	3°	7°	10°	15°
Length (mm)	2,500	1,489	974	809
Width (mm)	472	472	472	472
Height (mm)	585	585	585	585

Fixed Sectors



Optical system

Light source:	3 nos. high-intensity LED diodes.
Lens:	Glass aspheric condenser.
Day range:	Up to 7 nm.
Nominal night range:	Up to 26 nm (T=0,74).
Power supply:	Up to 70 W.
Sector accuracy:	< 0.05°.
Beam width:	Up to 15°. Other divergences available.
Vertical divergence:	Up to 5°.
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

- A.C. operation.
- Synchronization by cable or GPS receiver.
- Remote monitoring module via GSM, radio or satellite.
- RS-485 MODBUS serial port.
- MEL500L-Osc (with Oscillating Boundaries).

Materials and environment

- Stainless-steel and marine-aluminium housing.
- Outer painting with polyurethane finishing.
- Inner painting resistant to high temperatures.
- Easy alignment gunsight.
- 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	Horizontal divergence Vertical divergence			
	3° 1°	7° 2.3°	10° 3.3°	15° 5°
White	1,120,000	514,250	359,975	239,983
Green	630,000	289,265	203,201	134,995
Red	537,000	246,840	184,600	115,192

*Other divergences available.



Specifications subject to change without previous notice.

Oscillating boundaries

FI R	R	Alt R/W	W	Alt G/W	G	FI G
Isolated flashes RED	Fixed light RED	Alternate flashes RED/WHITE	Fixed light WHITE	Alternate flashes GREEN/WHITE	Fixed light GREEN	Isolated flashes GREEN



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