

# ZONE 2

## Other ATEX Lanterns



MSM offers a great range of beacons with ATEX Certification to be installed in potentially hazardous areas with presence of flammable liquids, gases or vapours.

Among ATEX lights, we can find flashing beacons, marine compact lanterns, range lights and high-resolution leading lights. Manufactured with LED technology, they provide a great luminous efficiency with a low consumption. Ranges from 3 up to 20 nautical miles.

This range of beacons and leading lights belongs to the ATEX Classification Group II, Category 3, assuring a high protection level. This allows the use of these lanterns in potentially explosive atmospheres, classified for Zone 2.

## Features:

- ATEX Classification:  
GROUP II: Equipment on surface (no mining).  
ZONE 2: Category 3.  
ATMOSPHERE: GAS.
- High-efficiency luminous system.
- Average operation lifetime over 10 years.
- Photocell adjustable in lux.
- IP 67/IP68 watertightness degrees (immersion resistant).
- Linear adjustment of luminous intensity.
- RS-232 serial port for setting adjustments by PC.
- Programming, configuration and operating status via PC.
- Short-circuit, reverse-polarity, over-temperature and transient overvoltage protections.



Specifications subject to change without previous notice.

## ZONE 2



MBL 160-Ex2 LED Marine Lantern



MCL 250-Ex Marine Compact LED Lantern



MEL 250L-Ex High-Resolution LED Sector Light



MDL-Ex LED Range Light



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### MBL 160-Ex2 LED Marine Lantern

<b>Light source:</b>	3 to 9 nos. ultra-bright LED diodes, with high-precision acrylic lens.
<b>Luminous range:</b>	Up to 10 nm (T=0.74) 14 nm (T=0.85).
<b>Colours available:</b>	White, green, red and amber.
<b>Vertical divergence:</b>	From 5° to 30° (50% Io).
<b>Power supply:</b>	From 9 to 36V.

### MCL 250-Ex Marine Compact LED Lantern

<b>Light source:</b>	3 to 6 nos. ultra-bright LED diodes, with high-precision acrylic lens.
<b>Luminous range:</b>	Up to 8 nm (T=0.74) 11 nm (T=0.85).
<b>Colours available:</b>	White, green, red and amber.
<b>Vertical divergence:</b>	From 5° to 30° (50% Io).
<b>Autonomy without solar charging:</b>	Up to 700 hours.

### MEL 250L-Ex High-Resolution LED Sector Light

<b>Day range:</b>	Up to 1.5 nm.
<b>Nominal night range:</b>	Up to 14 nm (T=0.74).
<b>Power supply:</b>	7W.
<b>Sector boundary accuracy:</b>	< 0.07°.
<b>Beam width:</b>	Up to 15° (5° each colour).

### MDL-Ex LED Range Light

<b>Day range:</b>	Up to 4 nm.
<b>Nominal night range:</b>	Up to 19 nm (T=0.74).
<b>Horizontal divergence:</b>	Up to 10° (50% Io).
<b>Vertical divergence:</b>	Up to 2° (50% Io).
<b>Power supply:</b>	Up to 22W.

### MRL-Ex LED Range Light

<b>Day range:</b>	Up to 4 nm.
<b>Nominal night range:</b>	Up to 21 nm (T=0.74).
<b>Horizontal divergence:</b>	Up to 4.3° (50% Io).
<b>Vertical divergence:</b>	Up to 4.3° (50% Io).
<b>Power supply:</b>	Up to 15W.



MRL-Ex LED Range Light

For remaining specifications, refer to the technical sheet of each beacon on its specific chapter.