

FA-250 LED LR 5-Mile or 10-Mile Class 1 Div 2 Lantern



The FA-250 LED LR is highly efficient optic, designed to meet the requirements of offshore oil platforms for 5 or 10 mile applications. The light consists of a linear array of very high flux LED's individually mounted in a parabolic reflector. The highly efficient reflector uses a state of the art dichroic hybrid spectral metal coating. Groups of reflectors are assembled in an array system driven by specially designed electronics.

The LED's are mounted on specially designed patented heat sinks to keep the temperature of the LED below 50 °C to assure the design life of 50,000 hours. The exterior is the standard FA-250 precision molded cover with stainless steel lid and bird spikes. The FA-250 LED LR controller provides flash control, current limiting to the LED, photocell input and synchronization terminal.

TECHNICAL DATA

- **Lens:** 250 mm precision-molded, high-temperature, acrylic cover.
- **Lamp:** Single level array of patented water cooled high flux, high efficiency LED's.

MECHANICAL DATA

(Without the bird spikes)

- **Height:** 12 "(304.8 mm). **Weight:** 22.5 lbs. (10.2 kg)
- **Materials:** Precision heat tolerant acrylic cover. Cast aluminum base and frame. Stainless steel fittings and neoprene gasket.
- **Mounting:** 4 each 20mm diameter holes on 200 mm bolt circle.

ELECTRIC CONTROL MODULE

- **Input:** 10-30 Volts DC.
- **Power:** 0.1 watts quiescent current. Selectable power level settings.
- 15 Pre-programmed flash rhythms plus 1 for user programming.
- Approved with 4 Watts Input by U. S. Coast Guard as a 5-mile Signal Lantern in the Gulf of Mexico.

CERTIFICATIONS

- Approved by the U. S. Coast Guard for GOM use on Class A structures in the 8th Coast Guard District at 4 watts at Quick Flash. Lantern has 10 NM range at Morse code "U" at minimum of 16 watts.
- Factory Mutual approved as Nonincendive for use in Class I, Division 2 Groups A, B, C & D, and Class I, Zone 2, Group IIC, Hazardous (Classified) Locations, for average power not to exceed 19.2 watts.

NI/I/2/ABCD/T6 Ta ≤+49°C/T5 Ta ≤+64°C.
NI/I/2/IIC/T6 Ta ≤ +49°C/ T5 Ta ≤+64°C.

Patent No.: US 7,461,952 B2

FORM No.: 041211

Specifications subject to change without notice

