

FA-250EX XFB FLAMEPROOF MARINE LANTERN



The FA-250EX Zone 1 Lantern, certified under Certificate No. DEMKO 02 ATEX 131875, utilizes all the features of a standard FA-250 marine lantern with the addition of a flame-proof glass dome internal fixture to house either lamps, xenon flash tube, lampchangers, transformers or DC-DC converters in various combinations to meet the signaling performance requirements.

The lantern enclosure comprises a cast base of LM-6 marine grade aluminum, an upper section of a glass globe cemented into a support ring and a tapered spigot joint forming the flame path. Due to the nature of the flameproof, IP-66 enclosure approval, a variety of non-hazardous certified internals can be used. M20 or M25 quad cable entries remove the need for additional junction boxes.

An important safety feature of the FA-250EX lantern is the low maximum surface temperature of the fixture during operation. The 10-mile lantern has a maximum of 85EC (T6) where competing units are 200EC (T3). The 15-mile lantern has a maximum of 135EC (T4) where competing units are 300EC (T2).

The FA-250EX lantern system offers several advantages for offshore platform applications. Its lens cover and the cast-aluminum base are the most durable and longest life system in use. The FA-250EX lantern, with its smooth, acrylic lens cover, eliminates the buildup of fillets of moisture, dust, salt spray, raindrops and other contaminants on the internal fresnel lens prisms and tend to wash clean during rainfall. Field testing of **exposed fresnel lens prisms recorded 14.3% loss of candlepower in six weeks of exposure.** The same fresnel lens **with cover recorded only 1.6% loss** during the same test period.

For applications requiring a visual signal with an intense momentary flash, the FA-250EX lantern is fitted with an xenon flashtube. This intense flash is highly identifiable in either daytime or nighttime.

The XFB series of flashtube beacons includes the XFB-001, XFB-005, and the XFB-010 units. Each unit operates from an internal 10-15 volt DC voltage source. The numeric designation indicates output energy (in joules) per flash.

Xenon flashtube beacons are available to flash with a minimum period of one second with a flash duration of approximately 200 micro seconds.

The flashtube in the XFB series is a helical flashtube of capillary design, rated for operation at 300-450 volts.

An XFB beacon can be GPS synchronized with other XFB beacons, LED beacons, or incandescent beacons to provide a signal of great conspicuity which is useable at a range well beyond that of either component light.



APPROVED VARIATIONS OF LANTERN.

FA-250EX320 XFB001: One joule flashtube.

FA-250EX320 XFB005: Five joule flashtube.

FA250EX320 XFB010: Ten joule flashtube.

APPLICATIONS/TEMPERATURE RATING

LAMP	CANDELA	APPLICATION	TEMP
XFB 001	90	ESD Beacon	T-6
XFB 005	480	ESD Beacon	T-6
XFB 010	960	ESD Beacon	T-6

Colored lens filter factors--red (0.30), green (0.32) and yellow (0.58).