

FA-165EX ZONE 1 RED LED AVIATION OBSTRUCTION LIGHT



The FA-165EX is an LED based Low Intensity Red Aviation Obstruction Light designed for extreme environments such as high UV and marine conditions encountered on offshore oil and gas production facilities, drilling rigs and refineries.

Designed to be placed in remote locations, the lantern incorporates very long lived LED's to minimize scheduled maintenance. The FA-165EX LED's are mounted on metal core PCBs with **patented** integrated heat pipes to cool the LED arrays **without a cooling fan**. This highly efficient, passive, cooling system gives the LED array the highest design life in the marketplace (greater than 60,000 hours).

The materials of the FA-165EX housing are selected to match the life of the LEDs contained inside. **No plastic is used in the housing of the unit.** The cover is tempered toughed glass able to withstand high temperature and impact and the base is impregnated, anodized and painted cast marine grade aluminum.

The FA-165EX has several options for electronic controllers: a 90-264 VAC 50-60 Hz internal controller, a 20-30 VDC internal controller or an external AC or DC controller, which can be remotely located up to 800 meters away.

Mechanical Data:

No moving parts.

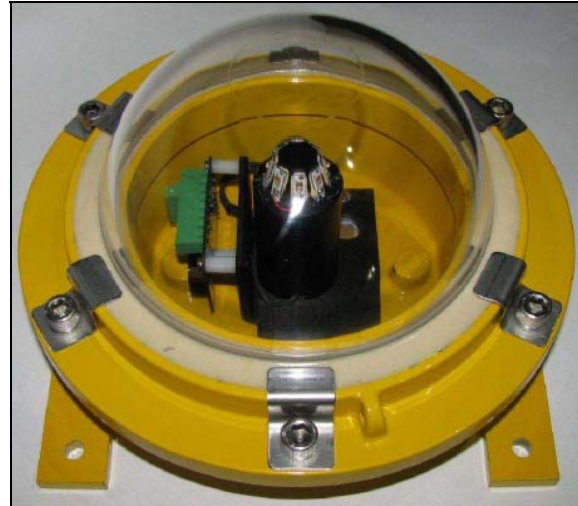
Height: 150 mm **Weight:** 5 kg

Materials: Epoxy coated cast marine grade aluminum base. Toughened glass.

Mounting: Four 7 mm diameter holes, 90 degrees apart. 229 mm (9") x 191 mm (7 17/32").

Ingress Protection: IP-66

Patent No.: US 7,461,952



MODEL FA-165EX

VARIATIONS OF AVIATION LANTERNS

FA-165EX 02-168B: 13 Watt, 200 candela, **Red** LED Array aviation obstruction light conforming to CAP 168, Group "B" standards.

FA-165EX 02-168A: 3 Watt, 10 candela, **Red** LED Array aviation obstruction light conforming to CAP 168, Group "A" standards.

FA-165EX 02R-AUS: 6 Watt, 100 candela, **Red** LED array conforming to Australian standards for low intensity obstacle lights.

Maximum internal power dissipation 40W.

EC-Type Examination Certificate

Certificate No.: ITS10ATEX17055X

Coding: II 2 G Ex d IIB T5 Tamb -20°C to +55°C Gb.
Optional: Tamb -40°C to +55°C Gb.

Certificate No.: IECEx ITS 10.0041X

Coding: Ex d IIB T5 Tamb -40°C/-20°C to +55°C Gb (Dependant on model)

FA-165 HIGH TEMPERATURE UNIT: All components in the lantern housing will withstand an ambient temperature of 100°C. The exterior of the lantern will withstand a 130°C flare for one minute. The FA-165 High Temperature unit must be operated with the external electric controller.

Specifications subject to change without notice

Form No.: 082911D