

FTS 370D Vanguard II®

Medium Intensity Dual LED Aviation Obstruction Lighting System



Compliance and Applications

The FTS 370D Vanguard II is a dual (red and white) FAA L-864/L-865 medium intensity LED aviation obstruction lighting system for structures between 200' and 700' AGL (FAA E-type towers). The system also meets CAR 621 2nd Edition standards for medium intensity CL-864/CL-865 flashing obstruction light as well as ICAO 6th Edition standards for medium intensity type A/ type B obstacle lights.

The Vanguard II uses a single cable for beacon power, marker power and communication. Firmware can be upgraded for future compatibility with no need for controller modification and includes programming that allows the lighting system to be avian friendly. The single enclosure houses a low voltage environment that removes the need for an interlock switch, allowing alarms to remain active when the door is opened.

Standard Features




- Interleaved LEDs and bypass circuitry provide longer life by allowing the loss of individual LEDs up to the 25% limit
- Industry-leading IEC 61000-4-5 surge immunity to 25kA
- Patented Fresnel optics to minimize ground scatter
- Aircraft Detection Lighting Systems (ADLS) interface
- Automatic failsafe - Switches to day mode after 19 hours of no mode change; can be disabled if necessary
- Configurable to meet AC 70/7460-1L
- Unique 4-line OLED backlit display for visibility in any lighting conditions
- Dry contact monitoring (day, night, marker, PED, GPS, comm alarms and mode status)
- 5 year warranty

Optional Features

- Infrared Lighting - NVG and NVIS compatibility using 850nm infrared (IR) LEDs
- SMART Card - Enables several options for monitoring and controlling the system remotely while providing full diagnostic information using either cellular or ethernet based connectivity. SNMP, Modbus or Eagle Protocols can be used.
- Wi-Fi - Provides wireless connectivity onsite for diagnostics and lighting inspections
- GPS Synchronization
- Remote Upgradeable Firmware



General Specifications

Input Voltage	100-240 VAC ±24 VDC (optional) ±48 VDC (optional)
Frequency	50-60 Hz
Marker Power Consumption	2.1 watts per marker (not included in system consumption) 3.4 watts with IR (not included in system consumption)
Marker Dimensions	9" x 2.75" x 2.13" (228.6 x 69.9 x 54.1 mm)
Marker Weight	1.6 lb. (0.7 kg)
FH Dimensions	15.75" dia. x 7.31"
FH Weight	26.3 lb. (11.92 kg)
FH Aerodynamic Wind Area	99.125 in ²
Controller Dimensions	23" x 17.13" x 6.44"
Controller Weight	44 lb. (20 kg)
Protection Rating	IP65, NEMA 4X
Certifications	  

		Power Consumption (with IR)	Flash Rate (per min)	Flash Intensity
L-864 L-865	Day (white)	80w (70w)	40 flashes	20,000 ±25% ECD
	Night (red)	40w (40w)	20/30/40 flashes	2,000 ±25% ECD
	Night (white)	40w (40w)	40 flashes	2,000 ±25% ECD
L-866 L-885	Day (white)	110w (100w)	60 flashes	20,000 ±25% ECD
	Night (red)	50w (50w)	60 flashes	2,000 ±25% ECD
	Night (white)	50w (50w)	60 flashes	2,000 ±25% ECD



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