



Vanguard® Medium FTS 370d for MET Towers

The Vanguard Medium FTS 370d is a dual (white, red and infrared) FAA L-864/L-865 LED aviation obstruction lighting system. It is suitable for towers between 200' and 700' AGL (FAA E-type towers) including meteorological (or MET mast) towers. The FTS 370d uses a single cable for both power and communication.

Standard Features

- Aircraft Detection Lighting Systems (ADLS) interface
- Infrared (IR) LEDs on the flashhead for compatibility with NVG and NVIS per FAA AC 150/5345-43J
- Patented Fresnel optics to minimize ground scatter
- Interleaved LEDs and by-pass circuitry for longer life
- Surge immunity of 25kA to withstand 99% of all lightning strikes
- Powder-coated aluminum top plate, base and controller box to prevent corrosion or damage from flying debris like ice
- 4-line OLED backlit on-board user interface for diagnostics and programming
- Photodiode uses ruggedized metal housing and is equipped with shielded cable to prevent EMI interference and crosstalk
- Input power breaker switch eliminates replaceable fuses
- Automatic failsafe switches to day mode if no mode change detected
- 6 dry contacts for monitoring



System Options

- SMART Card
 - Monitor and control the system remotely
 - Receive full diagnostic information through LTE modem or ethernet-based connectivity via SNMP or Modbus protocols
 - Upgrade firmware remotely
- Outdoor Wi-Fi antenna for onsite diagnostics, programming and lighting inspections
- GPS synchronization

Warranty

- 5-year parts warranty

FTS 370d for MET Towers

SPECIFICATIONS

Regulatory Compliance	FAA AC 150/5345-43J L-864, L-865, L-866, L-885
	FAA AC 70/7460-1M
	ICAO Annex 14 6th edition Medium Intensity types A and B
	Transport Canada CAR 621 2nd edition CL-864/CL-865
	DGAC L-864/L/865
	CE
Input Voltage	100-240 VAC ±48 VDC (optional)
Frequency	50-60 Hz
FH Dimensions	15.8 dia. x 7.3" (400 dia. x 190.5 mm)
FH Weight	26.3 lbs (11.92 kg)
FH Aerodynamic Wind Area	99.1 in ² (0.06 m ²)
Marker Power Consumption*	2.1w (3.4w with IR)
Marker Dimensions	9 x 2.8 x 2.1" (228.6 x 69.9 x 54.1 mm)
Marker Weight	1.6 lbs. (0.7 kg)
Controller Dimensions	23 x 17.1 x 6.4" (584.2 x 434.3 x 162.6 mm)
Controller Weight	44 lbs (20 kg)
Protection Rating	IP66, NEMA 4X

POWER CONSUMPTION

		Wattage (IR)	Flash Rate**	Flash Intensity
L-864/ L-865	Day (white)	80w (70w)	40 fpm	20,000 ±25%ECD
	Night (red)	40w (40w)	20/30/40 fpm	2,000 ±25%ECD
	Night (white)	40w (40w)	40 fpm	2,000 ±25%ECD
L-866/ L-885	Day (white)	110w (100w)	60 fpm	20,000 ±25%ECD
	Night (red)	50w (50w)	60 fpm	2,000 ±25%ECD
	Night (white)	50w (50w)	60 fpm	2,000 ±25%ECD

FAA METEOROLOGICAL EVALUATION TOWER LIGHTING

Voluntary marking of METs less than 200' feet (61 m) AGL:

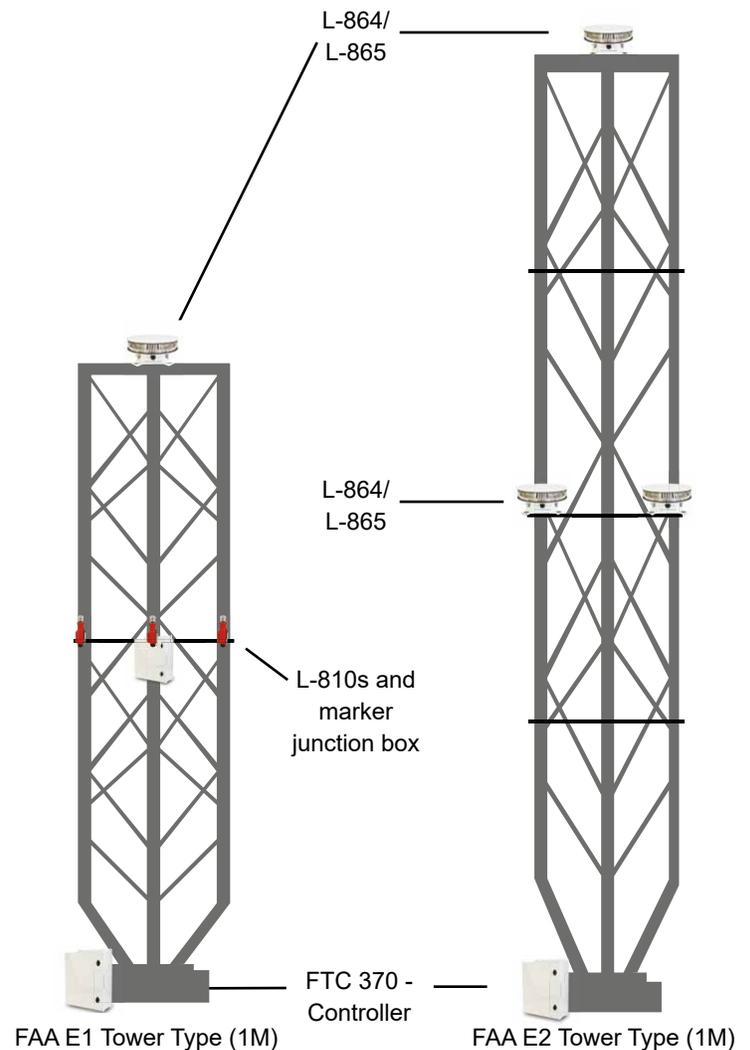
- METs should be painted with alternate bands of aviation orange and white paint.
- High-visibility sleeves be installed on the MET's outer guy wires. One sleeve on each guy wire as close to the anchor point as possible, but well above the crop or vegetation canopy.
- A second high-visibility sleeve should be installed on the same outer guy wires midway between the location of the lower sleeve and the upper attachment point of the guy wire to the MET.

Light dual METs taller than 200' (61 m) AGL as E-type towers:

- **FAA AC 70/7460-1M Tower Type E1:** 200-350' including any appurtenances with 1 dual (red/infrared/white) medium intensity L-864/L-865 beacon and 2 or more L-810 red/infrared marker lights flashing in sync with the L-864 at 30 fpm
- **FAA AC 70/7460-1M Tower Type E2:** 350-500' including any appurtenances with 3 dual (red/infrared/white) medium intensity L-864/L-865 beacons
- **FAA AC 70/7460-1L Tower Type E1:** same as 1M but no infrared requirement
- **FAA AC 70/7460-1L Tower Type E2:** same as 1M but no infrared requirement
- **FAA AC 70/7460-1K Tower Type E1:** 200-350' including any appurtenances with 1 dual medium intensity L-864/L-865 beacon and 2 or more steady-burn L-810 marker lights
- **FAA AC 70/7460-1K Tower Type E2:** 350-500' including any appurtenances with 3 dual medium intensity L-864/L-865 beacons and 6 steady-burn L-810 marker lights (8 markers if square)

*Not included in system power consumption.

**Only 30 fpm is applicable for FAA-certified applications files under AC 70/7460-1M, and requires the use of L-810(f) depending on the height of the structure.



FLASH TECHNOLOGY

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