FTS 371 Smart Vanguard®

Medium Intensity Red LED Aviation Obstruction Lighting Systems

A1 configuration

A0 configuration

Compliance
- FAA AC 150/5345-43J: L-864, L-885 and L-810
- Accommodates FAA AC 70/7460-1K, 1L and 1M marker requirements (steady, flashing and IR)
- Transport Canada CAR 621.19: CL-864, CL-885 and CL-810
- ICAO Annex 14 (7th edition): Medium Intensity Types B and C and Low Intensity Type B
- DGAC Mexico: L-864 and L-810

Applications
The FTS 371 SMART is a low-power FAA L-810/L-864 red lighting system for FAA type A0/A1 structures. It meets changing FAA regulations for flashing markers and also complies with FAA L-885 for catenary applications.

With LED replacing incandescent lighting and marker power consumption decreasing by as much as 98%, a new approach for accurate monitoring is required. The FTS 371 uses a patent-pending current feedback monitoring technology that will not fluctuate with changes in incoming power and temperature, providing consistent and predictable results.

Standard Features
- Flash rate of 20, 30, 40 or 60 flashes per minute (200 ms flash duration)*
- Red and infrared (IR) LEDs for compliance with FAA AC150/5345-43J and low power consumption
- Mode override switch
- Photodiode control with alarm inhibit option
- Modbus RTU Serial RS-485
- 4 dry contact relays (PHD, BCN and MKR alarms, MODE status relay)
- Support for up to 8 markers and 1 beacon
- Sync input/output interconnects multiple boards for sync without GPS
- 5-year warranty

System Options
- Negative 24-48VDC ±10% (isolated DC power supply)
- GPS synchronization
- Powder-coated aluminum enclosure
- SNMP monitoring through FTM 190

* Only 30 fpm flash rate is applicable for FAA certified applications filed under AC 70/7460-1M.

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FLIGHT LIGHT
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®

Vanguard® Red FTS 371 SMART

SPECIFICATIONS

Regulatory	FAA AC 150/5345-43J: L-864, L-885 and L-810
	ICAO Annex 14: Medium Intensity Types B and C and Low Intensity Type B (7th edition)
	Transport Canada CAR 621.19: CL-864, CL-885 and CL-810
	DGAC Mexico: L-864 and L-810
	CE
Input Voltage	12-48 VDC ± 10% (12 VDC for markers only)
FH Aerodynamic Wind Area	99.1 in² (0.06 m²)
Protection Rating	IP66, NEMA 4X

POWER CONSUMPTION (WATTS)

		20 fpm	30 fpm*	Steady
FTC 371	DC	1.3	1.3	1.3
FH 371	DC	4.0	5.3	30
Marker 371 (Single L-810)	DC	-	0.5 0.8 IR	2.5 3.9 IR
OL2 (Double L-810)	DC	-	1.0 1.6 IR	5.0 7.8 IR

* Only 30 fpm is applicable for FAA-certified applications filed under AC 70/7460-1M.

DIMENSIONS			WEIGHT
Polycarbonate Controller	10" x 8" x 6" (254 x 203.2 x 152.4 mm)	DC	4.9 lb. (2.22 kg)
Aluminum Controller	16.1" x 10.5" x 4.9" (408.9 x 266.7 x 124.5 mm)	DC	8.8 lb. (4 kg)
		(-) 24 VDC	10.7 lb. (4.8 kg)
		(-) 48 VDC	10.7 lb. (4.8 kg)
Flash Head	15.75" dia. x 7.5" (400 dia. x 190.5 mm)	DC	25.85 lb. (11.7 kg)
Marker (Single L-810)	9" x 2.75" x 2.13" (228.6 x 69.9 x 54.1 mm)	DC	1.6 lb. (0.7 kg)
OL2 (Double L-810)	11.0" x 5.0" x 8.75" (279.4 x 127 x 222.25 mm)	DC	5.40 lb. (2.45 kg)

RED TOWER LIGHTING

FAA AC 70/7460-1M

- **Tower Type A0:** Less than 150' including appurtenances, marked with 1 steady-burn double red/infrared L-810 (OL2) for night

- **Tower Type A1:** 150-300' including appurtenances, marked with 1 red/infrared L-864 medium intensity beacon and 2 or more single red/infrared L-810 marker lights configured to flash in sync with the L-864 at 30 fpm for night
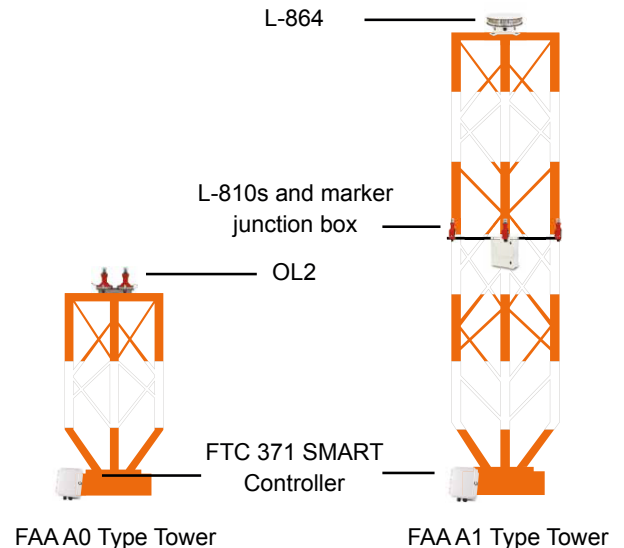
FAA AC 70/7460-1L

- **Tower Type A0:** Less than 150' including appurtenances, marked with 1 steady-burn double L-810 (OL2) for night

- **Tower Type A1:** 150-300' including appurtenances, marked with 1 L-864 medium intensity beacon and 2 or more single L-810 marker lights configured to flash in sync with the L-864 at 30 fpm for night

FAA AC 70/7460-1K

- **Tower Type A0:** Less than 150' including appurtenances, marked with 1 steady-burn double L-810 (OL2) for night

- **Tower Type A1:** 150-300' including appurtenances, marked with 1 L-864 medium intensity beacon and 2 or more low intensity type B steady red lights for night

ICAO Annex 14

- **Type B Lighting:** 45-105 m including appurtenances, marked with 1 medium intensity type B flashing beacon and 2 or more steady-burn single L-810 marker lights for night

- **Type C Lighting:** 45-105 m including appurtenances, marked with 3 medium intensity type C steady-burn red beacons for night

L-864

L-810s and marker junction box

OL2

FTC 371 SMART Controller

FAA A0 Type Tower

FAA A1 Type Tower