

Vanguard® Red FTS 371 SMART

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.

The FTS 371 SMART meets FAA AC 150/5345-43J and can accommodate both AC 70/7460-1K, 1L and 1M marker requirements (steady, flashing or infrared). The system also complies with Transport Canada, ICAO and DGAC Mexico standards.

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 2 beacons for AC; 1 beacon for DC
- Sync input/output interconnects multiple boards for sync without GPS
- 5-year warranty

System Options

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



A1 configuration



A0 configuration

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

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	85-265 VAC at 50/60 Hz 12-48 VDC ± 10% (12 VDC for markers only)
FH Aerodynamic Wind Area	99.1 in ² (0.06 m ²)
Protection Rating	IP66, NEMA 4X

POWER CONSUMPTION (WATTS)				
		20 fpm	30 fpm	Steady
FTC 371	AC	3.8	3.8	3.8
	DC	1.3	1.3	1.3
FH 371	AC	4.0	5.3	30
	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

DIMENSIONS		WEIGHT	
Polycarbonate Controller	10" x 8" x 6" (254 x 203.2 x 155.4 mm)	AC	5.6 lbs. (2.54 kg)
		DC	4.9 lbs. (2.22 kg)
Aluminum Controller	16.1" x 10.5" x 4.9" (408.9 x 266.7 x 124.5 mm)	AC	9.5 lbs. (4.3 kg)
		DC	8.8 lbs. (4 kg)
		(-) 24 VDC	10.7 lbs. (4.8 kg)
		(-) 48 VDC	10.7 lbs. (4.8 kg)
Flashhead	15.75" dia. x 7.5" (400 dia. x 190.5 mm)	AC/DC	25.85 lbs. (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 lbs. (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 lbs. (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

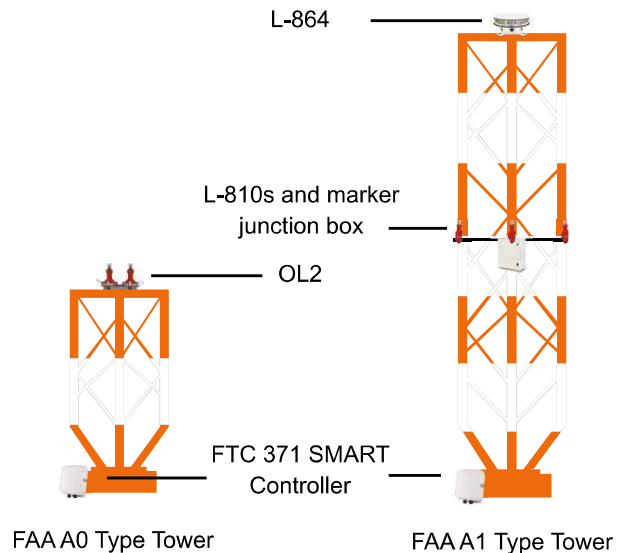
- **Tower Type A0:** Less than 150' including appurtenances, marked with 1 steady-burn double L-810 (OL2) for night
- **Tower Type A1:** 150-300' including appurtenances, marked with 1 L-864 medium intensity beacon and 2 or more single L-810 marker lights configured to flash in sync with the L-864 at 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



FLASH TECHNOLOGY

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