

OL2A Solar Safety Light

The OL2A is a solar safety light ideal for marking railroad blue safety flags, barricades, obstacles and other hazards in mining, obstruction and construction zones. This compact, self-contained marking solution provides premium reliability and excellent value for use in hard-to-access locations.

Advances Optics

- 7 Up to 29 candela intensity
- 7 40 user-adjustable flash patterns with ability to directly enter intensity
- Available in red, white, green, yellow and blue

Easy Installation

- Installs in minutes—"out-of-box" operation
- Flange-mount and pole-mount options
- Automatic dusk-to-dawn operation
- Optional on/off switch
- Optional mini Infrared Programmer

Low Maintenance

- Replaceable and recyclable AA NiMH batteries
- Automatic Light Control (ALC) regulates intensities based on 5-day data trends for longer battery life and optimal performance

Reliable

- 7 Premium-grade, UV-resistant polycarbonate body and lens material
- 7 Waterproof; IP 68 immersion
- 7 Ventilated battery compartment
- 7 Life expectancy over 15 years; 3-year warranty

Trusted

With thousands of installations worldwide, Flash Technology solar LED lights operate year-round at permanent and temporary installations.





Flange Mount





Optional Infrared Programmer Pole Mount

OL2A

| SPECIFICATIONS | | | |
|-----------------------------------|--|--|--|
| Optical | 29 cd peak intensity; see table | | |
| | High-powered LED | | |
| | Red, green, white, yellow and blue color outputs | | |
| | Proprietary optical design | | |
| | 40 flash patterns | | |
| Solar Panel | Best-in-class high-efficiency solar cells 0.6 W | | |
| Battery | 3 high-temperature NiMH AA batteries rated for -40 to 185 $^{\rm o}\text{F}$ (-40 to 85 $^{\rm o}\text{C}$) | | |
| | 5-year battery life; Replaceable and recyclable | | |
| Energy Management System (EMS) | Intelligent, microprocessor EMS | | |
| Automatic Light Control (ALC) 2.0 | When enabled, automatically adjusts to low levels of sunlight to ensure continuous operation | | |
| Programming | Programmable with optional IR programmer | | |
| | Premium-grade, UV-resistant, polycarbonate body and lens | | |
| Construction | Waterproof battery compartment with Gore® vent | | |
| | Color indicator matches LED color | | |
| Temperature | -22 to 122 °F (-30 to 50 °C) optimal | | |
| Temperature | -40 to 176 °F (-40 to 80 °C) maximum | | |
| Weight | Flange mount: 0.8 lbs (0.4 kg) Pole mount: 0.9 lbs (0.4 kg) | | |
| Mounting | Flange or pole-mount options | | |
| Wind Loading | 161 mph (72 m/s) | | |
| Ice Loading | 0.03 psi (22 kg/m2) | | |
| Shock & Vibration | MIL-STD-202G | | |
| Ingress | EN 60529 IP 68 immersion, 24 hrs at 3' (1 m) MIL-STD-202G immersion & damp heat cycling MIL-STD-810G rain & salt fog | | |
| Compliance | RoHS, WEE FCC, CE | | |

PEAK INTENSITY*ColorIntensityRed18 cdGreen23 cdWhite29 cdYellow25 cdBlue8 cd

OL2A RED: TYPICAL PERFORMANCE

Flash Code 001: Steady-on Dusk-to-Dawn, 6 days autonomy min.



DIMENSIONS









With sleeve: 1.9" (48 mm) pole ID Without sleeve: 2.4" (61 mm) pole ID Over-top mount: 2.8" (71 mm) pole OD

| ORDER KEY | | | |
|-----------|--------|--------------------------|--|
| Model | Output | Mount | |
| OL2A | Red | | |
| | Green | Flange mount | |
| | White | Flange mount with switch | |
| | Yellow | Pole mount | |
| | Blue | | |



FLASH TECHNOLOGY 78

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 2

©2019 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. DOL2A-01 Rev A





OL4 Solar Warning Light

The OL4 is a high-performance warning light designed to perform reliably at tough industrial locations including rail yards, construction zones, mining operations and more. Suitable for permanent, temporary or emergency installations, the OL4 is unrivaled by any other hazard marking or barricade light currently available.

- Dusk to dawn operation
- 7 Lightweight, self-contained
- Sophisticated solar energy management
- Intuitive onboard user interface
- 7 Intelligent deployment settings for reliable performance in a wide-range of locations
- Proven technology platform

Easy installation and Relocation

Lights are immediately operational following a simple installation process. No specialized work crews required.

Self-Contained and Low-Maintenance

All components are safely encased in a durable, rugged enclosure. The OL4 includes a replaceable battery pack that extends the total cost of ownership beyond 5 years and offers significant cost savings.

Intelligent Deployment Settings

The OL4 has the unique ability to be tuned to its precise installation location, protecting it against improper configuration.

Unprecedented Reliability

Microprocessor Energy Management System (EMS) monitors and adapts to environmental conditions for consistent operation and long life under the toughest conditions.

User-Friendly Design

Onboard user interface, optional Infrared Programmer and USB device manager software offer easy configuration and programming.

Green Solution

Recyclable batteries and a RoHS compliant design combined with natural solar charging ensure the lightest environmental footprint.





OL4

| SPECIFICATION | IS | | |
|----------------------------------|---|--|--|
| | MIL-STD-202G: Humidity, immersion, vibration, shock | | |
| | MIL-STD-810G: Solar radiation, salt-fog | | |
| Compliance | EN 60945: ESD, EMI, EMC; IP68; L70 | | |
| Compliance | FAA Advisory Circular AC 150/5370-2E Commercial Part 139 Airports for barricade and construction applications | | |
| | ICAO Annex 14, Volume 1, 4th edition (blue light) | | |
| | High-efficiency cells with bypass and blocking diode function | | |
| Solar Panel | Maximum power point tracking (MPPT) for optimal energy collection | | |
| Battery | Tool-less replaceable and recyclable best-in-class battery pack with extreme temperature range | | |
| | Battery status feedback of Good, Charge or Bad (Replace) | | |
| Light Source | High-powered LEDs | | |
| | Color-specific temperature corrected LED drivers provide consistent intensity under all operating conditions | | |
| | Greater than 10 cd intensity, steady-on | | |
| Intensity | 18 cd peak intensity, flashing, 12.5% duty cycle (red LEDs) | | |
| Flash Patterns | 256+ | | |
| Construction | Premium-grade, UV-resistant, polycarbonate/polysiloxane co-polymer body and lens material | | |
| | Double O-ring sealing with waterproof vent | | |
| Calara | Red, blue, yellow, green, white | | |
| Colors | ICAO and SAE25050 (FAA) compliant chromaticity | | |
| Color Indicator | Yes, FAA Eng. Brief 67 compliant | | |
| Tomporatura | -45 to 124 °F (-43 to 51 °C) operating | | |
| Temperature | -45 to 176 °F (-43 to 80 °C) storage | | |
| Weight | 3.5 lbs (1.58 kg) | | |
| Wind Loading | 400 mph (180 m/s) | | |
| Automatic Light Control (ALC) | When enabled, automatically adjusts to low levels of sunlight to provide continuous operation | | |

ORDER OPTIONS

| Model | Output | Switch | Control |
|-------|---|--------------------------|-------------|
| OL800 | Red Blue Green White Yellow | Switched Non-Switched | None GPS |

| ACCESSORY ORDERING CODES | |
|--|---|
| Additional bird deterrent (1 ships with each light) | 57003 |
| Bottom cover replacement kit | 57392 (with switch) 57393 (without switch) |
| Battery replacement pack | 72835 |
| Battery charger (includes multiple ends for international use) | 59188 (100 - 240 VAC) |
| USB cable | 57394 |
| Device manager software | Contact Customer Support |
| Infrared programmer | 69899 |
| Magnetic mounting kit (3x magnets and hardware) | 76296 |
| | |

Additional accessories and mounting options available. For a complete list, consult our accessories specification sheet.



PHOTOMETRICS



TECHNICAL DRAWINGS AND DIMENSIONS



FLASH TECHNOLOGY **7**

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 4

©2019 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. DOL40-01 Rev C



OL800 Solar LED Obstruction Light

The OL800 is an integrated solar solution that includes a high-efficiency LED light source, solar panels and battery.

The OL800 is designed to meet lighting standards for FAA L-810, ICAO low intensity types A/B (red) and CAR 621 CL-810. Optional infrared (IR) LEDs comply with FAA AC 150/5345-43J and Engineering Brief 98. Easy to install, the OL800 requires minimal maintenance and is ideal for temporary installations like cranes, MET towers and during wind farm construction as well as permanent structures like communications towers.

Intuitive Setup & Programming

- 7 Top-mounted LED display with simple tap-to-activate functionality
- Easily check light settings without external controller
- Programmable with optional Infrared Programmer

Scalable, Cost-effective Design

- Customizable for best value-for-performance
- Multiple battery pack options

Intelligent Energy Management

- Best-in-class, high-efficiency solar panels
- Maximum Power Point Tracking (MPPT)
- Patented Energy Management System (EMS)
- 7 Ensures maximum battery life and light performance even in the harshest of environments

Durable, Low Maintenance

- Compact, stand-alone, maintenance-free unit
- Integrated solar panels, battery, electronics and LED light source
- Replaceable battery extends life beyond 5 years

OL800 Compact

- 7 9.9 lbs (4.5 kg)
- 63 Wh X-cells battery pack
- Suitable for at least 7 days autonomy in mid to high sun locations

OL800 Standard

- 7 14 lbs (6.4 kg)
- 7 100.8 Wh E-cells battery pack
- 7-10 days battery autonomy
- Provides reliable solar lighting over a wider geographical range

OL800 Large

- 7 22.4 lbs (10.2 kg)
- 210 Wh BC-cells battery pack
- 7-10 days battery autonomy
- Provides reliable obstruction lighting in difficult solar geographies





OPTIONAL INFRARED PROGRAMMER

OL800

| SPECIFICATIONS | | | |
|--------------------------------|---|--|--|
| | High-powered LEDs meet IES LM-80 lumen maintenance ensuring consistent photometrics for life of product | | |
| | FAA L-810 per FAA AC 150/5345-43G (red) | | |
| Optical | ICAO Annex 14 5th and 6th editions low intensity types A & B (red) | | |
| | CASA 10 cd (Part 139, Vol. 2) | | |
| | ICAO, FAA SAE25050 and FAA EB 67 compliant | | |
| | chromaticity: red, green, white and yellow | | |
| | Steady-on and 250+ flash patterns | | |
| | Best-in-class high-efficiency solar cells with blocking diodes | | |
| Solar Panel | Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection | | |
| | EnerSys CYCLON pure-lead VRLAAGM battery -85 to 176°F (-65 to 80°C) manufacturers operating range | | |
| Battery | Onboard battery status | | |
| | Optional port for battery charging | | |
| | Designed for 5-year battery life; Replaceable and recyclable | | |
| Energy Management System (EMS) | Intelligent, microprocessor | | |
| Automatic Light Control (ALC) | When enabled, automatically adjusts to lower levels of sunlight to ensure continuous operation | | |
| Programming | Programmable with optional IR programmer | | |
| Togramming | Integrated 4-character LED display | | |
| GPS Synchronization | Optional GPS enables 2 or more lights to flash in unison | | |
| | Premium-grade, UV-resistant polycarbonate lens/head | | |
| | Polycarbonate/polysiloxane co-polymer base | | |
| | Environmentally friendly, durable powder-coated aluminum chassis (applied by trivalent chromate | | |
| Construction | process) | | |
| | Weterproof vented better/ compartment | | |
| | Top color indicator matches LED color | | |
| | Integrated handle | | |
| | Bird deterrent included | | |
| | -22 to 122 °F (-30 to 50 °C) optimal | | |
| Temperature | -40 to 176 °F (-40 to 80 °C) maximum | | |
| Maunting | 3 or 4, 7.87" (200 mm) bolt circle mounting | | |
| Mounting | pattern | | |
| Wind Loading | 161.1 mph (72 m/s) | | |
| Ice Loading | 0.03 psi (22 kg/m2) | | |
| Shock & Vibration | MIL-STD-202G (for shock and vibration) | | |
| Ingress | EN 60529 IP 68 immersion MIL-STD-202G immersion & damp heat cycling | | |
| | MIL-STD-810G rain & salt fog | | |
| Electrostatic Discharge (ESD) | FAA-STD-0193, EN61000-4-2 | | |

DIMENSIONS



| Model | Output | Solar Engine | Infrared | Control | Charge Port | Chassis |
|----------------------|--|------------------------------|---------------------------|---------------------------------------|--|---------------------------------------|
| OL800 | Red 209 cd* Green 287 cd White 374 cd Yellow 319 cd | Compact Standard Large | None Infrared | None GPS Sync | None Charge Port | Yellow |
| 25 - 20 - 15 - | | | | | | |
| 5 - 0 - | | | | | | |
| U | 1 2 3 | 4 5 6 Vi | 7 8 ertical Divergence | 9 10 e (deg) | 11 12 13 | 14 1: |
| | | | | ity 72 cd • FAA L ity 41 cd • ICAO | -810 (AC 150/5345-43, EB Type B (Annex 14, Vol. 1, Type B (Annex 14, Vol. 1, | 67) 5th Ed./2009) 5th Ed./2013) |

C E 🐼 FC 🐼 🗵

*Infrared only available in red. Intensity capped at 70 cd.

FLASH TECHNOLOGY 38

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

©2019 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. DOL80-01 Rev F



LED Marker Lights

A direct replacement or retrofit for FAA type L-810 incandescent obstruction lighting markers, Flash Technology's L-810 LED marker fixtures are available as AC and DC applications.

- Marker 370 accommodates AC voltages
- Marker 371 accommodates DC voltages

These compact and efficient marker lights reduce operating costs through nominal power consumption and extended longevity. They also easily install onto existing marker bases without disturbing the existing conduit.

The DC electronics design features an integrated monitoring circuit that interfaces with the Vanguard[®] Red FTC 371 SMART red light controller. This allows for accurate monitoring of up to 8 low-power LED markers.

Standard Features

- Easy installation with minimal mounting hardware
- 7 Lightweight and compact design allows for versatile mounting options
- Clear lens allows for daytime visibility at the tower site to assist with troubleshooting efforts
- Available as a single or double unit
- Weather, corrosion and vibration resistant
- Patented optics eliminate ground scatter
- 5-year warranty

System Options

Infrared marker LEDs for NVG and NVIS compatibility

Regulatory Compliance

- **7** FAA AC 150/5345-43H type L-810
- Accommodates FAAAC 70/7460-1K (steady) and FAAAC 70/7460-1L (flashing) marker requirements
- Transport Canada CAR 621.19 type CL-810
- ICAO Annex 14 (6th edition) medium intensity type B
- DGAC Mexico type L-810



Single L-810



OL2 (Double L-810)

LED Marker Lights

| SPECIFICAT | IONS | | POWER | CONSU | MPTION | | |
|---------------|--|---|---------------|-------------|--------------------|--------|-----------------------------|
| Input Voltage | MKR 370 | 120-240 VAC | - | | | Steady | 30 fpm* (10% Duty Cycle) |
| input voltago | MKR 371 | 24-48 VDC infrared | _ | | L-810 | 2.7 | - |
| Dimensions | L-810 | 9 x 2.75 x 2.13" (228.6 x 69.9 x 54.1 mm) | | | I -810 with IR | 4.6 | - |
| Dimensions | OL2 11 x 5 x 8.75" (279.4 x 127 x 222.25 mm) MKR 370 | | AC | | | | |
| Maight | L-810 | 1.6 lbs. (0.7 kg) | | | OL2 | 5.4 | - |
| weight | OL2 | 5.4 lbs. (2.45 kg) | | | OL2 with IR | 9.2 | - |
| | | | | L-810 | 2.5 | 0.5 | |
| | | | L-810 with IR | 3.9 | 0.8 | | |
| | | | CL-810 | 3.7 | 0.7 | | |
| | | | | | CL-810 with IR | 5.0 | 1.0 |
| | | | MKR 3/1 | | OL2 | 5.0 | 1.0 |
| | | | | OL2 with IR | 7.8 | 1.6 | |
| | | | | OL2 CL-810 | 7.4 | 1.4 | |
| | | | | | OL2 CL-810 with IR | 10.0 | 2.0 |

LED MARKER CONVERSION KIT

The LED marker conversion kit converts incandescent markers on specific xenon lighting systems to Vanguard LED. The new red light module provides adjustment for proper marker alarming.

- For FTB 324, FTB 311 and FTB 314 systems only
- Reduce tower climbs with long-lasting LED
- **7** Power consumption reduced from 116 watts to 2.7 watts per marker
- **7** Part number: 11000016245



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

FLASH TECHNOLOGY **7**

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 8

©2019 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. DMARK-01 Rev A



FTS 350i Wind Turbine Lighting System

The FTS 350i is an economical FAA L-864 / ICAO Type B red LED lighting system specifically designed for wind turbine applications that do not require the advanced features of the FTS 370i.

Small and light, this stand-alone obstruction light does not have a controller taking up scarce space inside the nacelle. The weather-proof, UV-resistant, polycarbonate construction provides a 90% weight reduction over the FTS 370i.

The FTS 350i is fully compliant with FAA AC 70/7460-1L requirements for turbines with rotor tip heights less than 699 feet and is certified to AC 150/5345-43J with infrared LEDs.

Standard Features

- Fully integrated system no external controller
- Easy to carry and install on turbines due to extremely low weight
- Infrared (IR) LEDs for compatibility with NVG and NVIS per FAA AC 150/5345-43J
- 7 Fresnel optics minimize ground scatter, making the light more community friendly
- 7 10kA surge protection, two times the FAA-specified minimum
- GPS for synchronized flashing
- Handheld remote controller simplifies light setup
- Field-configurable flash rate of 20 or 30 fpm
- **7** Dry contact alarm for beacon, GPS sync and mode change
- 2-year replacement warranty

Optional Features

- Adaptor plates for existing mounting brackets
- Mounting brackets available for multiple turbine manufacturers
- Overvoltage protection device (OVP)

| PRODUCT COMPARISON | FTS 350i | FTS 370i |
|-----------------------------|--|--|
| Surge Protection | 10kA | 25kA |
| Warranty | 2-year replacement | 5-year parts |
| Weight | 2.9 lbs. (1.3 kg) | 26.3 lbs. (11.9 kg) |
| Wind Area | 26.8 in ² (17,290 mm ²) | 99 in ² (63,870.8 mm ²) |
| Power Consumption at 30 fpm | 9 W | 10 W |
| GPS Sync | \checkmark | \checkmark |
| Alarm Relay | \checkmark | \checkmark |
| Infrared LEDs | \checkmark | \checkmark |
| Radar Interface | _ | \checkmark |



FTS 350i

| SPECIFICATIONS | |
|--------------------------|--|
| Input Voltage | 120-240 VAC |
| Frequency | 50-60 Hz |
| FH Weight | 2.9 lbs. (1.3 kg) |
| FH Aerodynamic Wind Area | 26.8 in ² (17,290 mm ²) |
| Protection Rating | IP66 |

POWER CONSUMPTION

| | 20 fpm | 30 fpm |
|--|--------|--------|
| L-864 red night at 2,000 ± 25% ECD flash intensity | 6W | 9W |
| Power consumption is 1 watt in stand-by. | | |

FAA WIND TURBINE LIGHTING





FLASH TECHNOLOGY **#**

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 10

©2020 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D350I-01 Rev B



Vanguard[®] FTS 370i Wind Turbine Lighting

The Vanguard Medium FTS 370i-2 IR is available as an FAA L-864 or ICAO Type B medium intensity aircraft warning light specifically designed for wind turbines. The FTS 370i utilizes LED technology, advanced optics and industry-leading surge protection to ensure long-term reliability and compliance. For wind turbines with a rotor tip height between 500' and 700', two Vanguard 370i-2 IR units can be used together on one nacelle to meet FAA AC 70/7460-1L specifications.

Standard Features

- Powder-coated aluminum top plate and base
- **Fully integrated system no external controller**
- **7** Dry contact for integration with Aircraft Detection Lighting System (ADLS)
- Surge immunity of 25kA withstands 99% of all lightning strikes
- GPS for synchronized flashing
- Patented 360-degree light collector to control mode change
- Infrared (IR) LEDs for compatibility with NVG and NVIS
- Patented Fresnel optics to minimize ground scatter
- Field configurable flash rate to 20 or 30 fpm
- 1 dry contact relay: beacon, sync and mode status

System Options

- 7 Mounting brackets available for multiple turbine manufacturers
- Additional overvoltage protection (OVP) device protects against lightning strikes (approved for Siemens turbines)

Regulatory Compliance

- 7 FAA L-864 per AC 150/5345-43J
- ICAO Medium Intensity type B
- 7 DGAC L-864
- 7 CSA
- 7 CE

Warranty

5-year parts warranty



FTS 370i-2

| SPECIFICATIONS | |
|--------------------------|---|
| Input Voltage | 120-240 VAC |
| Frequency | 50-60 Hz |
| FH Dimensions | 15.75 dia. x 7.31" (8.7" top of GPS) 400 dia. x 180.6 mm (220.7 mm top of GPS) |
| FH Weight | 26.3 lbs. (11.9 kg) |
| FH Aerodynamic Wind Area | 99.125 in² (63,900.51 mm²) |
| Protection Rating | IP66 |
| | |

POWER CONSUMPTION 20 fpm 30 fpm 40 fpm L-864 red night at 2,000 ± 7W 10W 13W 25% ECD flash intensity 7W 10W 13W

FTS 370I-2 COMPONENTS



Power consumption is 2 watts in stand-by

FAA WIND TURBINE LIGHTING



FLASH TECHNOLOGY 77

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 12

©2020 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D370I-01 Rev I



Vanguard[®] Medium FTS 370w LED

The Vanguard Medium FTS 370w is a white L-865 medium intensity LED obstruction lighting system for structures 200' and 700' AGL (FAA D-type towers). The system also meets FAA L-865 low intensity catenary requirements. It complies with CAR 621 2nd edition for medium intensity CL-865 flashing lights and ICAO 6th edition standards for medium intensity type A obstacle lights.

The FTS 370w uses a single cable for communications as well as beacon and marker power. Firmware can be upgraded for future compatibility with no need for controller modification. The single enclosure houses a low-voltage environment, removing the need for an interlock switch and allowing alarms to remain active when the door is open.

Standard Features

- Infrared (IR) lighting NVG and NVIS compatibility using 850nm IR LEDs on the flashhead per FAA AC 150/5345-43J
- Interleaved LEDs and by-pass circuitry provide longer life by allowing the loss of individual LEDs up to the 25% limit
- Surge immunity of 25kA to withstand 99% of all lighting strikes
- ITE modem for improved communication stability
- **7** Ruggedized photodiode in metal housing with shielded cable
- Input power breaker switch eliminates replaceable fuses
- **7** Outdoor Wi-Fi antenna for onsite diagnostics and lighting inspections
- 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
- 4-line OLED backlit display for visibility in any lighting conditions
- **7** Dry contact monitoring (day, night, marker, PED, GPS, comm alarms and mode status)
- Compliant with FAA AC 70/7460-1L
- 5-year warranty

System Options

- Infrared LEDs on L-810 marker lights
- SMART card monitor and control the system remotely, and receive full diagnostic information through LTE modem or ethernet-based connectivity. SNMP, Modbus or Eagle protocols may be used.
- GPS synchronization
- → Upgrade firmware remotely

7 TECK90 support – provides protection from RF interference and damage on high-power broadcast towers up to 700' AGL

FTS 370w

| SPECIFICATIONS | |
|--------------------------|---|
| | FAA AC 150/5345-43J L-865, L-866 |
| | ICAO Annex 14 6th edition Medium Intensity |
| | type A |
| Regulatory Compliance | Transport Canada CAR 621 2nd edition CL-865 |
| | DGAC L-865 |
| | CSA |
| | CE |
| | 100-240 VAC |
| Input Voltage | ±24 VDC (optional) |
| | ±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) |
| 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 * | |
| 1 005 | Day (white) | 80 W (70 W) | 40 fpm | 20,000 ±25%ECD | |
| L-805 | Night (white) | 40 W (40 W) | 40 fpm | 2,000 ±25%ECD | |
| 1.000 | Day (white) | 110 W (100 W) | 60 fpm | 20,000 ±25%ECD | |
| L-800 | Night (white) | 50 W (50 W) | 60 fpm | 2,000 ±25%ECD | |
| * Optional 4,000 cd night mode for international standards. | | | | | |

FAA WHITE TOWER LIGHTING

FAA AC 70/7460-1L and 1K

- Tower Type D1: 200-350' including any appurtenances with 1 L-865 medium intensity beacon
- Tower Type D2: 350-700' including any appurtenances with 3 L-865 medium intensity beacons



FLASH TECHNOLOGY

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 14

©2020 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D370W-01 Rev E



Vanguard[®] Red FTS 371

The Vanguard Red FTS 371 is a low-power FAA L-810/L-864 red obstruction lighting system for FAA type A0/A1 structures. It meets changing FAA regulations (AC 150/5345-43J) for flashing markers.

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)*
- Infrared beacon LEDs for night vision compatibility
- Mode override switch
- Photodiode control with alarm inhibit option
- 1 dry contact relay (primary alarm)
- Support for up to 4 markers and 1 beacon
- 5-year warranty

System Options

Available with infrared (IR) and non-IR markers

Regulatory Compliance

- 7 FAA types L-864 and L-810 under AC 150/5345-43J
- Accommodates FAA AC 70/7460-1K and 1L marker requirements (steady or flashing)
- → Transport Canada CAR 621.19 type CL-864
- 对 DGAC Mexico type L-864



A1 configuration



A0 configuration

Vanguard[®] Red FTS 371

| SPECIFICATIONS | |
|--------------------------|---|
| Input Voltage | 85-265 VAC at 50/60 Hz 12-48 VDC ± 10% (12 VDC for markers only) |
| FH Aerodynamic Wind Area | 99.125 in ² |
| Protection Rating | IP66, NEMA 4X |

| DIMENSIONS AND WEIGHT | | | | |
|-----------------------------|---|--------|---------------------|--|
| Component | Dimensions | Weight | | |
| Polycarbonate Controller | 7.8 x 8.25 x 4" (198.1 x 209.6 x 101.9 mm) | AC/DC | 2.1 lbs. (0.95 kg) | |
| Flashhead | 15.75" dia. x 7.5" (400 dia. x 190.5 mm) | AC/DC | 25.6 lbs. (11.7 kg) | |
| 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) | |
| Double L-810 | 11.0" x 5.0" x 8.75" (279.4 x 127 x 222.25 mm) | DC | 5.4 lbs. (2.45 kg) | |

| POWER CONSUMPTION | | | | |
|-------------------|----|--------|---------|--------|
| | | 20 fpm | 30 fpm* | Steady |
| 570.074 | AC | 0.9 | 0.9 | 0.9 |
| FIC 371 | DC | 0.8 | 0.8 | 0.8 |
| FH 371 | AC | 4.0 | 5.3 | 30 |
| | DC | 4.0 | 5.3 | 30 |
| Single L 910 | DC | | 0.5 | 2.5 |
| Single L-010 | DC | - | 0.8 IR | 3.9 IR |
| Double L 910 | DC | | 1.0 | 5.0 |
| | | - | 1.6 IR | 7.8 IR |

RED TOWER LIGHTING

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



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

FLASH TECHNOLOGY 38

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 16

©2020 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D371B-01 Rev G



Vanguard[®] Medium FTS 370d LED

The Vanguard Medium FTS 370d is a dual FAA L-864/L-865 medium intensity LED lighting system for structures between 200' and 700' AGL (FAA E-type towers). The system also meets FAA L-885 low intensity catenary requirements. It complies with CAR 621 2nd edition for medium intensity CL-864/CL-865 flashing lights and ICAO 6th edition standards for medium intensity type A/type B obstacle lights.

The FTS 370d uses a single cable for communications as well as beacon and marker power. Firmware can be upgraded for future compatibility with no need for controller modification. The single enclosure houses a low-voltage environment, removing the need for an interlock switch and allowing alarms to remain active when the door is open.

Standard Features

- Infrared (IR) lighting NVG and NVIS compatibility using 850nm IR LEDs on the flashhead per FAA AC 150/5345-43J
- Interleaved LEDs and by-pass circuitry provide longer life by allowing the loss of individual LEDs up to the 25% limit
- Surge immunity of 25kA to withstand 99% of all lighting strikes
- ITE modem for improved communication stability
- **7** Ruggedized photodiode in metal housing with shielded cable
- Input power breaker switch eliminates replaceable fuses
- Outdoor Wi-Fi antenna for onsite diagnostics and lighting inspections
- Patented Fresnel optics to minimize ground scatter
- Aircraft Detection Lighting Systems (ADLS) interface
- Automatic failsafe switches to day mode if no mode change detected
- 4-line OLED backlit display for visibility in any lighting conditions
- **7** Dry contact monitoring (day, night, marker, PED, GPS, comm alarms and mode status)
- Compliant with FAA AC 70/7460-1L
- ₱ 5-year warranty

System Options

- Infrared LEDs on L-810 marker lights
- SMART card monitor and control the system remotely, and receive full diagnostic information through LTE modem or ethernet-based connectivity. SNMP, Modbus or Eagle protocols may be used.
- GPS synchronization
- **7** Upgrade firmware remotely



FTS 370d

| FAA AC 150/5345-43J L-864, L-865, L-866, L-885 |
|--|
| 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 |
| CSA |
| CE |
| 100-240 VAC |
| ±24 VDC (optional) |
| ±48 VDC (optional) |
| 50-60 Hz |
| 15.8 dia. x 7.3" (400 dia. x 190.5 mm) |
| 26.3 lbs (11.92 kg) |
| 99.1 in ² (0.06 m ²) |
| 2.1w (3.4w with IR) |
| 9 x 2.8 x 2.1" (228.6 x 69.9 x 54.1 mm) |
| 1.6 lbs. (0.7 kg) |
| 23 x 17.1 x 6.4" (584.2 x 434.3 x 162.6 mm) |
| 44 lbs (20 kg) |
| IP66, NEMA 4X |
| |

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

FAA DUAL TOWER LIGHTING

FAA AC 70/7460-1L

- **7** Tower Type E1: 200-350' including any appurtenances with 1 dual medium intensity L-864/L-865 beacon and 2 or more L-810 marker lights flashing in sync with the L-864 at 30 fpm
- 7 Tower Type E2: 350-500' including any appurtenances with 3 dual medium intensity L-864/L-865 beacons

FAA AC 70/7460-1K

- **7** 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
- **7** 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.

FAA E1 Tower Type (1K)

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

FLASH TECHNOLOGY

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 18

©2020 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D370D-01 Rev F



Broadcast and Telecom Lighting

The FAA has liberalized regulations in AC 70/7460-1L to permit the use of medium intensity lighting on broadcast and telecom towers up to 700' AGL. Deploying a Vanguard Medium FTS 370d system with TECK90 cable is more cost effective and faster to install than conduit.

Designed for tall broadcast towers, the rugged TECK90 cable protects equipment from RF interference and damage. Impervious to all challenging environments including extremes of wet, damp and dry conditions, TECK90 cable resists chemical and mechanical abuse and is even suitable for hazardous locations.

Standard Features

- Lower installation time and cost
- Protection from RF interference and damage
- Infrared (IR) lighting NVG and NVIS compatibility using 850nm IR LEDs on the flashhead per FAA AC 150/5345-43J
- Surge immunity of 25kA to withstand 99% of all lighting strikes
- Interleaved LEDs and by-pass circuitry provide longer life by allowing the loss of individual LEDs up to the 25% limit
- Patented Fresnel optics to minimize ground scatter
- ITE modem for improved communication stability
- Input power breaker switch eliminates replaceable fuses
- **7** Outdoor Wi-Fi antenna for onsite diagnostics and lighting inspections
- Automatic failsafe switches to day mode if no mode change detected
- 4-line OLED backlit display for visibility in any lighting conditions
- 7 Dry contact monitoring (day, night, marker, PED, GPS, comm alarms and mode status)
- Compliant with FAA AC 70/7460-1L
- 5-year warranty

System Options

- Infrared LEDs on L-810 marker lights
- SMART card monitor and control the system remotely, and receive full diagnostic information through LTE modem or Ethernet-based connectivity. SNMP, Modbus or Eagle protocols may be used.
- GPS synchronization
- Upgrade firmware remotely



Broadcast and Telecom Lighting

| SPECIFICATIONS | |
|---------------------------|--|
| | FAA AC 150/5345-43J L-864, L-865, L-866, L-885 |
| | ICAO Annex 14 6th edition Medium Intensity types A and B |
| Regulatory Compliance | Transport Canada CAR 621 2nd edition CL-864/ CL-865 |
| | DGAC L-864/L/865 |
| | CSA |
| | 100-240 VAC |
| Input Voltage | ±24 VDC (optional) |
| | ±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 | |
| | Day (white) | 80w (70w) | 40 fpm | 20,000 ±25%ECD | |
| L-864/ L-865 | Night (red) | 40w (40w) | 20/30/40 fpm | 2,000 ±25%ECD | |
| 2 000 | Night (white) | 40w (40w) | 40 fpm | 2,000 ±25%ECD | |
| | Day (white) | 110w (100w) | 60 fpm | 20,000 ±25%ECD | |
| L-866/ L-885 | Night (red) | 50w (50w) | 60 fpm | 2,000 ±25%ECD | |
| | Night (white) | 50w (50w) | 60 fpm | 2,000 ±25%ECD | |

FAA DUAL TOWER LIGHTING

*Not included in system power consumption.

FAA AC 70/7460-1L

- Tower Type E1: 200-350' including any appurtenances with 1 dual medium intensity L-864/L-865 beacon and 2 or more L-810 marker lights flashing in sync with the L-864 at 30 fpm
- Tower Type E2: 350-500' including any appurtenances with 3 dual medium intensity L-864/L-865 beacons

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
- 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)



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

FLASH TECHNOLOGY 77

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 20

©2020 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D370B-01 Rev B



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 lighting 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
- 7 Outdoor Wi-Fi antenna for onsite diagnostics, programming and lighting inspections
- Automatic failsafe switches to day mode if no mode change detected
- 6 dry contacts for monitoring

System Options

- Infrared LEDs on L-810 marker lights
- SMART Card
 - Monitor and control the system remotely
 - **7** Receive full diagnostic information through LTE modem or ethernet-based connectivity via SNMP or Modbus protocols
 - **7** Upgrade firmware remotely
- GPS synchronization

Warranty

■ 5-year parts warranty



FTS 370d for MET Towers

| SPECIFICATIONS | |
|---------------------------|---|
| | FAA AC 150/5345-43J L-864, L-865, L-866, L-885 |
| | ICAO Annex 14 6th edition Medium Intensity |
| | types A and B |
| Regulatory Compliance | Transport Canada CAR 621 2nd edition CL-864/ |
| | CL-865 |
| | DGAC L-864/L/865 |
| | CSA |
| | CE |
| | 100-240 VAC |
| Input Voltage | ±24 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 80w (70w) 20.000 ±25%ECD Day (white) 40 fpm L-864/ Night (red) 40w (40w) 20/30/40 fpm 2,000 ±25%ECD L-865 2,000 ±25%ECD Night (white) 40w (40w) 40 fpm 20.000 ±25%ECD Day (white) 110w (100w) 60 fpm

50w (50w)

50w (50w)

60 fpm

60 fpm

2.000 ±25%ECD

2,000 ±25%ECD

L-866/

L-885

Night (red)

Night (white)

L-864/ SHIE! L-865 L-810s and marker junction box L-864/ met. L-865 L-810s and marker junction box FTC 370 -Controller FAA E2 Tower Type (1K)

FAA METEOROLOGICAL EVALUATION TOWER LIGHTING

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

- **7** 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 7 on each guy wire as close to the anchor point as possible, but well above the crop or vegetation canopy.
- **7** A second high-visiblity 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 70/7460-1L Tower Type E1: 200-350' including any appurtenances 7 with 1 dual medium intensity L-864/L-865 beacon and 2 or more L-810 marker lights flashing in sync with the L-864 at 30 fpm
- **FAA AC 70/7460-1L Tower Type E2:** 350-500' including any appurtenances with 3 dual medium intensity L-864/L-865 beacons
- FAA AC 70/7460-1K Tower Type E1: 200-350' including any appurtenances 7 with 1 dual medium intensity L-864/L-865 beacon and 2 or more steady-burn L-810 marker lights
- 7 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.

FAA E1 Tower Type (1K)

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

FLASH TECHNOLOGY

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 22

©2020 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D370E-01 Rev D



Vanguard[®] High FTS 270 LED Obstruction System

The Vanguard High FTS 270 is an L-856/L-864 high intensity LED lighting system that flashes white lights for day and twilight and either red or white lights at night. It is designed for structures FAA towers B3-B6, C3-C6, F3-F6 and G3-G6, such as broadcast communications towers, smokestacks, chimneys and bridges.

Engineered for maximum LED life, the feature-rich Vanguard High provides ultimate serviceability, easing troubleshooting and minimizing downtime if maintenance is required.

Key Features

- Single panel integrating white, red and infrared LEDs that complies with FAA Engineering Brief 98 and eliminates the need for additional red beacons
- Standard integrated GPS provides mode change backup using sunrise/sunset data to change mode in case of photodiode failure
- Barometric pressure sensors detect errors in a beacon's tier location, eliminating installation errors and pinpointing the location of the beacon on the tower in case maintenance is required
- Industry-leading 25 kA surge suppression rating, protecting against 99% of lightning strikes when properly installed and grounded

Monitoring

- SMART Card Monitor and control the system remotely and receive full diagnostic information through LTE modem or Ethernet-based connectivity; SNMP, Modbus or Eagle protocols may be used; included on all system
- Graphic annotated tower on webpage interface provides clear status of modes and alarms and facilitates deeper monitoring and analysis of individual lighting elements
- 7 standard alarm dry contacts
- **7** Optional Wi-Fi Interface offers command and control capabilities on mobile devices local to the site
- Optional Relay Expansion allows up to 28 additional dry contact alarm points for greater insight into cause of alarm

Installation & Maintenance

- **7** Pre-terminated quick connect cables with twist-lock plugs reduce installation error and enable troubleshooting flexibility
- **7** Remote firmware upgrades can update boards on the tower as well as the ground, reducing the need for truck rolls and tower climbs
- Local mode override at each light unit speeds up troubleshooting

Regulatory Compliance

- **7** FAA L-856, L-864, L-865 and L-810 per AC 150/5345-43J and Engineering Brief 98 (infrared)
- **7** FAA AC 70/7460-1L tower types B3-B6, C3-C6, F3-F6 and G3-G6
- **7** FAA AC 70/7460-1K tower types B2-B6, C2-C6, F2-F6 and G2-G6
- ICAO Annex 14 7th edition, high intensity types A and B, medium intensity types A and B and low intensity type B



Request a Quote flashtechnology.com/270RFQ

Vanguard[®] High FTS 270

| FH 372 | AOL BE/ | ACON | | | | |
|---|--|---|--|--|---|--|
| Input Volt | age | 100-24 | 0 VAC, 277 | VAC | | |
| Dimensio | ns | 15.75 dia. x 7.3" (400 dia. x 185.7 mm) | | | | |
| Weight | | 26.3 lb | 26.3 lbs. (11.9 kg) | | | |
| Aerodyna Wind Area | imic a | 0.7 ft² (0.065 m²) | | | | |
| FH 270 | FLASHH | IEAD A | EAD ASSEMBLY | | | |
| Input Volt | age | 100-27 | 100-277 VAC at 50/60Hz | | | |
| Dimensio | ns | 20.7 x 37.1 x 12.4" (525.8 x 942.3 x 315 mm) | | | mm) | |
| Weight | | 105.2 lbs. (47.7 kg) | | | | |
| Aerodyna Wind Area | imic a | 5 ft² (1.5 m²) | | | | |
| FH POWER CONSUMPTION* | | | | | | |
| | Mode | | Wattage | Flash Rate | Flash Intensity | |
| | Day (whit | e) | 299 | 40 fpm | 270,000 +/- 25% | |
| FH 270 L-856 | Twilight (| white) | 52 | 40 fpm | 20,000 +/- 25% | |
| 2 000 | Night (wh | ite) | 38 | 40 fpm | 2,000 +/- 25% | |
| FH 270 | Night (rec | 4) | 37 | 20/ 30 /40/60 fpm | 2,000 +/- 25% | |
| L-864 | Night (infi | rared) | 40 | 20/ 30 /40/60 fpm | 2,000 +/- 25% | |
| | Day (whit | e) | 66 | 40 fpm | 20,000 +/- 25% | |
| FH 372 | Twilight (| white) | 66 | 40 fpm | 20,000 +/- 25% | |
| E-000 | Night (wh | ite) | 21.5 | 40 fpm | 2,000 +/- 25% | |
| FH 372 | Night (rec | 4) | 24.2 | 20/ 30 /40/60 fpm | 2,000 +/- 25% | |
| L-864 | Night (infi | rared) | 21.5 | 20/ 30 /40/60 fpm | 2,000 +/- 25% | |
| MKR 3 | 72 INTER | RFACE | & MKR 37 | 71 LIGHTS | | |
| Interface | Input Volta | ige | 100-24 | 0 VAC, 50/60 Hz | | |
| Interface | Dimension | IS | 16.1 x | 10.5 x 4.9" (408.9 x 2 | 66.7 x 124.8 mm) | |
| Interface | Weight | | 10.1 lb | 10.1 lbs (4.6 kg) | | |
| Interface Aerodynamic Wind | | | 1 1 08 ft ² | 1.08 ft² (0.1 m²) | | |
| Area | | | 1.00 10 | (0.1111) | | |
| Area Interface | Power Cor | nsumptio | With M 19.6 W 4.2 W 1 | arkers Wi / steady 4 V flashing | thout Markers V steady | |
| Area Interface Marker In | Power Cor | nsumptio | With M 19.6 W 4.2 W 1 12-48 V | arkers Wi 'steady 4 V 'lashing /DC (24 VDC is used | thout Markers V steady) | |
| Area Interface Marker In Marker D | Power Cor put Voltage | nsumptio e | With M 19.6 W 4.2 W 1 12-48 V 9.0 x 2 | arkers Wi 'steady 4 V 'lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6) | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W | Power Cor put Voltago imensions /eight | nsumptio | With M 0n 19.6 W 4.2 W f 12-48 V 9.0 x 2 1.6 lbs | arkers Wi ' steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W Marker Area | Power Cor put Voltage imensions /eight erodynamie | e c Wind | With M 19.6 W 4.2 W ft 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² | (c. r m) arkers Wi 'steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m²) | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W Marker Area Marker P | Power Cor put Voltage imensions /eight erodynamie | e c Wind umptior | With M 19.6 W 4.2 W ft 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 1.2.5 W | arkers Wi 'steady 4 V 'lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6) (0.7 kg) (0.05 m²) (0.05 m²) | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W Marker Area Marker P (steady) | Power Cor put Voltage imensions /eight erodynamie ower Cons | e c Wind umptior | With M 19.6 W 4.2 W ft 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 1 2.5 W 3.9 W ft | (c. r m) arkers Wi / steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m ²) R | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W Marker Area Marker P (steady) Protection | Power Cor put Voltage imensions /eight erodynamie ower Cons n Rating | e c Wind umptior | With M 19.6 W 4.2 W ft 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 2.5 W 3.9 W ft IP66 | (c. r m) arkers Wi 'steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m²) R | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W Marker A Area Marker P (steady) Protection FTC 27 | Power Cor put Voltage imensions /eight erodynamie ower Cons n Rating 0 CONTR | c Wind | With M 19.6 W 4.2 W ft 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 1.25 W 3.9 W ft IP66 | (0.7 m) arkers Wi Isteady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m ²) R | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker M Marker Area Marker P (steady) Protection FTC 27 Input Volt | Power Cor put Voltage imensions /eight erodynamic ower Cons n Rating 0 CONTF age | c Wind umptior ROLLE | 1.00 R With M 19.6 W 4.2 W 1 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 3.9 W 1 IP66 R 0 VAC at 50 | (c. r m) arkers Wi 'steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m ²) R | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W Marker Area Marker P (steady) Protection FTC 27 Input Volt Dimensio | Power Cor put Voltage imensions /eight erodynamic ower Cons n Rating 0 CONTF age ns | e c Wind umptior 120/24 23.8 x | Note it Note it With M 19.6 W 4.2 W ft 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 2.5 W 3.9 W ft IP66 R 0 VAC at 50 17.5 x 8.5" | (6.1 m) arkers Wi 'steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m ²) R R D/60 Hz (605 x 444.5 x 216.2 t | thout Markers V steady) 9.9 x 54.1 mm) | |
| Area Interface Marker In Marker D Marker W Marker A Area Marker P (steady) Protection FTC 27 Input Volt Dimensio Weight | Power Cor put Voltage imensions /eight erodynamic ower Cons n Rating 0 CONTF age ns | c Wind umptior ROLLE 120/24 23.8 x Base S | With M 19.6 W 4.2 W1 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 2.5 W 3.9 W1 IP66 R 0 VAC at 50 17.5 x 8.5" System – 25 | (c. r m) arkers Wi 'steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m ²) (0.05 m ²) R D/60 Hz (605 x 444.5 x 216.2 t .1 lbs. (11.4 kg) | thout Markers V steady) 9.9 x 54.1 mm) mm) | |
| Area Interface Marker In Marker D Marker M Marker Area Marker P (steady) Protection FTC 27 Input Volt Dimensio Weight | Power Cor put Voltage imensions /eight erodynamic ower Cons n Rating 0 CONTF age ns | c Wind umption ROLLE 120/24 23.8 x Base S Fully L | Not if With M 19.6 W 4.2 W f 12-48 V 9.0 x 2 1.6 lbs 0.16 ff2 2.5 W 3.9 W f IP66 R 0 VAC at 50 17.5 x 8.5" System - 25 oaded System | (c. r m) arkers Wi steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m ²) (0.05 m ²) R D/60 Hz (605 x 444.5 x 216.2 m .1 lbs. (11.4 kg) em – 35.5 lbs. (16.1 k | thout Markers V steady) 9.9 x 54.1 mm) mm) g) | |
| Area Interface Marker In Marker D Marker M Marker Area Marker P (steady) Protection FTC 27 Input Volt Dimensio Weight Protection | Power Cor put Voltage imensions /eight erodynamic ower Cons n Rating 0 CONTF age ns | e c Wind umptior 120/24 23.8 x Base S Fully L IP66 Base S | With M 19.6 W 4.2 W 1 12-48 V 9.0 x 2 1.6 lbs 0.16 ft ² 0.16 ft ² 1.6 lbs 0.16 ft ² 0.16 ft ² 1.6 lbs 0.16 ft ² 1.6 lbs 0.16 ft ² 1.7 S w 3.9 W 1 1.7 S x 8.5" System – 25 0.0 ded System | (c. r m) arkers Wi 'steady 4 V lashing /DC (24 VDC is used .75 x 2.13" (228.6 x 6 (0.7 kg) (0.05 m ²) (0.05 m ²) R 0/60 Hz (605 x 444.5 x 216.2 m .1 lbs. (11.4 kg) em – 35.5 lbs. (16.1 k | thout Markers V steady) 9.9 x 54.1 mm) mm) g) | |

* Only 30 fpm for red night is applicable for FAA-certified applications filed under AC 70/7460-1L. Example tower graphic reflects an F3 tower filed under FAA AC 70/7460-1K. FH 372 AOL Beacon - required for tower with appurtenances greater than 40'

FH 270 Assembly - FH assembly consists of 3 LED panels, bracket and PC 270. Minimum of 3 FHs per tier to provide 360-degree visibility

PC 270 - 1 per FH 270, attached to FH using quick connect cables



MKR 372 Interface & MKR 371 Lights - 3 markers and 1 marker interface per tier



FTC 270 - system controller mounted near base of tower offers a suite of monitoring options



FLASH TECHNOLOGY 77

flashsales@spx.com | flashtechnology.com/obstruction | 1.615.503.2000

Page 22

©2019 Flash Technology. All rights reserved. Data and specifications subject to change without notification. ISO 9001:2015. D2700-01 Rev F