

Flight Light Inc. 2708 47th Ave. Sacramento, California, U.S.A. 95822-3806



PH (916) 394-2800 TF (800) 806-3548

FX (916) 394-2809 EM info@flightlight.com **Obstruction Lights FAA L-810** 

### **Compliance**

## FAA AC: 150/5345-43G ETL Certified L-810 ICAO Annex 14, Vol. 1, Type B

Flight Light L-810 obstruction lights are used on buildings, antennas, towers, cranes, and any other kind of obstacle which occupies airspace. Each fixture includes a glass Fresnel globe which is colored red for most applications. The fixtures are either a single or a double lamp housing and made with 3/4" or 1" internally threaded housing. A sidemounted option is also available. These obstruction lights operate on a 120V or 230V circuit. The fixture is illuminated with a 116W, A21 medium screw base lamp.

#### **Features**

- FAA approved L-810, certified and tested by ETL with a red lens and 116W lamp #32B.
- Direct installation into existing voltage power circuit.
- Direct mounting to conduit, bottom or side mounting options available.
- Photocell option for automatic activation at night.
- Optional grounding wire available.

### **Electronic Controls**

Single and double obstruction lights can be outfitted with electronic controls to enhance the operation, automation and reduce the maintenance cycle of the fixture. Common configurations include photocells, flashers, transfer relays and alarms. Note: flashing obstruction lights are not FAA approved. Other options and custom combinations may be available upon request.

#### **Features**

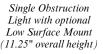
- Flashers used in fixtures are set at 45 FPM, 50% duty cycle. These fixtures are not FAA certified when flashing.
- Standard configurations come with 3/4" threaded fittings. 1" threaded and side mount configurations available on request.
- FAA style photocells with a 45 second time delay prevents activation and de-activation from momentary light condition.

# **Common Replacement Parts**

P/N	Description	
13-861R-T	Red globe with tether	
61-80001	Clamp band	
61-80004	Medium base socket	
LA-22483-2	116W, 120V lamp	
LA-116W/230V	116W, 230V lamp	
61-80002	O-ring	









Single Obstruction Light with Riser, Frangible Coupling and Floor Flange (14" overall height)

# **Obstruction Lights**

Fixture	Color	Power	Style	Mounting	Options
FL-810	R: Red	<b>AC1:</b> 120VAC	S: Single	<b>34B:</b> 3/4" Hub - Bottom	F: Flasher <sup>3</sup>
		<b>AC2:</b> 230VAC <sup>1</sup>	D: Double	<b>10B:</b> 1" Hub - Bottom	MT: Marine Treated
				<b>34S:</b> 3/4" Hub - Side	P: Photocell (81020 Series)
				<b>10S:</b> 1" Hub - Side	R: Red Casting
				FF: Floor Flange	T: Transfer Relay
				LSM: Low Surface Mount <sup>2</sup>	

<sup>&</sup>lt;sup>1</sup> Not FAA Approved. <sup>2</sup> For single option only. <sup>3</sup> Flasher not available for 277VAC.

Distance

Shipping Weight: (Single): 4.5 lb./2 kilo., Volume: 0.5 cu. Feet/0.01 cu. Meters; (Double): 10 lb./4.5 kilo., Volume: 1 cu. Feet/0.02 cu. Meters.

## Casting Options:



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### **Obstruction Lighting Controls**

Lighting controls are designed for use when multiple obstruction light fixtures are to be controlled with common electronics or when alarms or transfer relay circuits must be switched remotely from the fixture. The electronic control module comes in a cast iron device box with threaded hubs on both top and bottom. Replacement modules (controls without device box) are also available upon request. Photocell options, available for models 81001 and 81002, are built into the cast iron device box.

#### **Flasher**

**Model 81001** 120VAC, 2500W, 30 FPM flasher. Includes circuitry to reduce EMI for sensitive RF locations. Beacon tower flasher. FAA approved.

Model 81002 120-240VAC, 2400W flasher. Adjustable rate flasher, 10-100 FPM.

## Lamp Alarm/Transfer Relay

Model 81010 120VAC lamp alarm or transfer relay module. Monitors current for one to four 116W fixtures or one L-864 fixture with two 620W lamps. If any fixtures are detected out, 120VAC (1A) output and a 10A isolated relay (SPDT) are activated. Can be used as a transfer relay with isolated alarm for double obstruction fixtures with one primary and one standby lamp. For Buzzer option, add '-B' to model number.

**Model 81011** 120VAC lamp alarm for two to nine steady-burning, incandescent lamps. Monitors current for two to nine 116W fixtures. If any fixtures are detected out, 120VAC (1A) output and 10A isolated relay (SPDT) are activated.

#### **Photocell**

**Model 81020** 120VAC, 1000W photocell. FAA style photocells activate at 35 ft-cd and turn off at 58 ft-cd. A 45 second time delay prevents activation and de-activation from momentary light conditions. Does not come with device box, includes 1/2" threaded male fitting.

**Model 81021** 120VAC, 4800W photocell. Meets FAA/FCC requirements for obstruction lighting. Energized at 35 ft-cd and de-energized at 60 ft-cd. Time delay eliminates contact chatter. Contains dual 20A load contacts. Front plastic housing mounts to cast aluminum junction box (included).

**Model 81022** Hazardous Location Photocontrol Unit. Outdoor lighting control for exterior lighting in hazardous locations: explosion proof, dust-ignition proof, and weatherproof. Nominal Voltage 50/60 Hz: 120/208/240/277. Voltage Range: 105-305. Housing: sand cast copperfree aluminum - epoxy powder coated.



Model 81001



Model 81010



Model 81020



Model 81021



Model 81022

## **Obstruction Lighting Controls**

Fixture Type	lylodel	
FL-	<b>81001:</b> HP Flasher (120VAC, 2500W)	
	<b>81002:</b> MP Flasher (adj. 10 amps)	
	81010: 1-4 Lamp Alarm/Transfer Relay (Buzzer option '-B')	
	81011: 2-9 Lamp Alarm (steady-burning incandescent)	
	<b>81020:</b> Photocell only (120VAC, 1000W max)	
	81021: Photocell with aluminum box (120VAC, 4800W max)	
	81022: Hazardous Location Photocontrol Unit	

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