



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



## Incandescent Red Obstruction Light FAA L-810

PH (916) 394-2800    FX (916) 394-2809  
TF (800) 806-3548    EM sales@flightlight.com

### Compliance

FAA AC: 150/5345-43J  
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 side-mounted option is also available. These obstruction lights operate on a 120V or 230V circuit. The fixture includes an incandescent 116W, A21 medium screw base lamp.

### Features

- The only FAA certified L-810 incandescent red obstruction light produced in the world.
- Night Vision Goggle (NVG) friendly, NVIS compatible for military, police, and EMS applications.
- Direct installation into existing voltage power circuit.
- Direct mounting to conduit, bottom or side mounting options available.
- Standard configurations come with 3/4" threaded fittings.
- Photocell option for automatic activation at night.



Double Obstruction Light with Photocell



Single Obstruction Light with optional Low Surface Mount (11.25" overall height)



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

### 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                |

\* Clamp band only compatible with Flight Light fixtures.



Incandescent lamp included.

### Ordering Codes

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

<sup>1</sup> FAA Approved: 120VAC, red globe, 116W lamp #32B. <sup>2</sup> Not FAA Approved. <sup>3</sup> For single option only. <sup>4</sup> Flasher not available for 277VAC.  
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:



Red

Marine Treated

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## Obstruction Lighting Controls

### 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 copper-free aluminum - epoxy powder coated.



Model 81001



Model 81010



Model 81020



Model 81021



Model 81022

### Obstruction Lighting Controls

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

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