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Obstruction Lights FAA L-810

Compliance

FAA AC: 150/5345-43F
ETL Certified L-810
ICAO Annex 14, Vol. 1

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 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.

Obstruction Lights

Fixture Type	FAA Number	Globe Color	Lamp & Power	Mounting	Fixture Style	Options
FL-	810	R: Red	116: 120V, 116W 116A2: 230V, 116W	34B: 3/4" hub - bottom 10B: 1" hub - bottom 34S: 3/4" hub - side 10S: 1" hub - side	S1: Single D1: Double	T: Transfer Relay F: Flasher P: Photocell

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

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



Double Obstruction Light



Double Obstruction Light with Photocell

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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 81001-81004, 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 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-	81001: HP Flasher (120VAC, 2500W)
	81002: MP Flasher (adj. 10 amps)
	81010: 1-4 Lamp Alarm/Transfer Relay (Buzzer option '-B')
	81011: 2-9 Lamp Alarm
	81020: Photocell only (120VAC, 1000W max)
	81021: Photocell with aluminum box (120VAC, 4800W max)
	81022: Hazardous Location Photocontrol Unit

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