



L-810 LED Night Vision Compatible Steady-Burning Red Obstruction Light

Compliance and Applications

- ETL Certified L-810: FAA AC 150/5345-43J; EB-67D
- IP67 Certified

Compliant to:

- ICAO Annex 14, Low Intensity Obstacle Light, Type B
- Transport Canada CAR 621.19
- DGAC of Mexico
- MIL-C-7989

Our Night Vision Compatible, omni-directional, red, steady-burning, LED obstruction light is designed for marking tall structures such as buildings, towers, masts, cranes, meteorological towers, chimneys and other hazards to aircraft. This energy-saving LED light is a direct replacement for incandescent fixtures, providing years of reliable and maintenance-free operation. Available in single, double, and retrofit configurations; optional solar drive package.

What Does NVG Friendly Mean?

Both the FAA and Transport Canada have issued safety alerts warning that common LED obstruction lights pose a hazard to pilots using Night Vision Goggles (NVGs). This is due to the fact that NVGs typically use filters to block cockpit lighting from saturating the imaging system. This has the unintended effect of making LED obstruction lights invisible to pilots.

In response, we have incorporated NVG Friendly technology into our fixture (IR 850nm peak intensity), giving pilots using night vision goggles unmatched visibility of airfield perimeters, buildings, and towers. The L810LEDNV light is the first LED L-810 available to ensure that your structure is visible to all pilots, making it the first true LED replacement for incandescent obstruction lights.

Why Our L810LEDNV is Better

- Direct replacement for existing incandescent light
- Lasts up to 10 times longer than an incandescent light
- Uses 96% less power than an incandescent light
- Night Vision Goggle & NVIS Compatible
- No regular maintenance
- Available in single and dual configurations with bottom or side conduit outlets
- Can be operated in steady-burning or flashing mode (controller not supplied)
- Photocell option for automatic activation at night



Optional Low Surface Mount



Shown with Riser, Frangible Coupling and Floor Flange



Single L-810 LED Night Vision Compatible Obstruction Light



Night Vision Compatible Obstruction Light

- Self-contained wiring compartment eliminates additional boxes
- Weather/corrosion resistant
- IP67 Ingress Protection rating for dust and water
- Lens made from durable, UV-stabilized LEXAN polycarbonate
- Resistant to shock and vibration
- Operates from -67°F to 131°F (-55°C to +55°C)
- 5 year warranty

Specifications

- Power consumption: 3.4W (DC); 4W (AC)
- Power source: 120VAC, 208-277VAC, 12-48VDC
- Intensity: 32.5 candelas
- Light Output Wavelength: Red 615 nm, Infrared (IR) 860 nm
- Dimensions: 5.65" dia. x 7.75" height (single)
- Weight: 3.2 lb. (single); 7 lb. (double)
- Estimated lifetime: 70,000+ hours
- IP Rating: IP67
- Wind loading: Effective Projected Area of the L-810 with single mounting base is 23.125 square-inches

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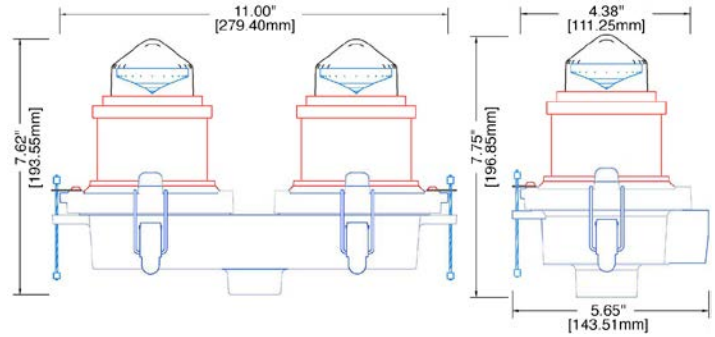
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Spare Parts

Part Number	Description
12-SB3	Single Bottom Casting 3/4" Hub
12-SB4	Single Bottom Casting 1" Hub
12-DB3	Double Bottom Casting 3/4" Hub
12-DB4	Double Bottom Casting 1" Hub
68-ME75-100	Connector: 3/4" Male to 1" Female
FL-810LEDNV12-48VDC	12-48VDC L810LED NV V1 Assy. (Engine)
FL-810LEDNV-120VAC	120VAC L810LED NV V1 Assy. (Engine)
FL-810LEDNV208-277VAC	208-277VAC L810LED NV V1 Assy. (Engine)



Shipping Information:

Single: 3.2 lb. (1.45 kg); Carton: 10" x 10" x 10"
 Double: 7 lb. (3.17 kg); Carton: 15" x 15" x 10"

L-810 LED Ordering Codes

Fixture	Color	Power	Fixture Style	Mounting	Options
FL-810LNV	R: Red	AC1: 120 VAC AC2: 208-240 VAC AC3: 277 VAC DC: 12/24/48 VDC	S: Single D: Double	34B: 3/4" Hub - Bottom 10B: 1" Hub - Bottom 34S: 3/4" Hub - Side 10S: 1" Hub - Side FF: Floor Flange LSM: Low Surface Mount ¹	F: Flasher ² P: Photocell T: Transfer Relay ³ MT: Marine Treated

¹ For single option only. ² Will not work with 277 VAC. ³ For 120/240VAC applications only.

Obstruction Lighting Controls

Lighting controls are designed for use when multiple obstruction light fixtures are to be controlled with common electronics. 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.

Photocells

- **Model 81020:** 120/208/240/277VAC, 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:** 120/240VAC, 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: 120/208/240/277VAC. Voltage Range: 105-305. Housing: sand cast copper-free aluminum - epoxy powder coated.



Model 81020



Model 81021



Model 81022

Photocell Ordering Codes

Part Number	Description
FL-81020	Photocell only (120/208/240/277VAC, 1000W max)
FL-81021	Photocell with aluminum box (120VAC, 4800W max)
FL-81021-2	Photocell with aluminum box (240VAC, 4800W max)
FL-81022	Hazardous Location Photocontrol Unit (120/208/240/277VAC)