FAA L-810 Low Intensity Obstruction Light

AV-OL Series Universal AC or Universal DC Dual Light Fixture



FAA Model:

34 inch pipe

thread mount

Features

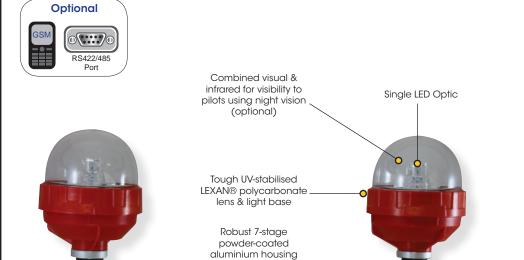
- Cost effective, energy efficient obstruction lighting solution
- · Available in universal DC: will accept between 12-48VDC
- Available in universal AC: will accept between 110-240VAC 50/60Hz
- · User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation
- Optional solar powered configurations available
- Dual light fixture enables simultaneous twin operation or redundant failsafe
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance time and costs
- **Available with optional GSM** monitoring for VDC model
- Available with optional RS422/485 communications port for monitoring for VDC model
- Optional combined visual/IR for pilots using NVG

Applications

 Low Intensity Obstruction Light for marking obstacles that do not exceed 45 metres (150 feet) in height

Compliance

- FAA AC150/5345-43G for L-810 Steady-burning Red **Obstruction Light**
- FAA Engineering Brief No. 67D



This Avlite dual light fixture is a steady burning, low intensity LED obstruction light designed to comply with FAA L-810 requirements. The model can be used for marking obstacles up to 45 metres (150 feet) above ground which pose a danger to aircraft at night, such as telecommunication towers, wind turbines, buildings and other tall structures.

A

Avlite's LED obstruction lights offer an ultra bright, energy efficient and cost effective lighting solution. The light fixture is available in two configurations, universal DC (12-48VDC) or universal AC (110-240VAC 50/60Hz).

The dual light fixture can be configured to different operational states. Both light fixtures may be set to operate steady-burning. Alternatively, the dual light fixture may consist of a main light and a standby light. If the main light should ever fail the standby light will automatically switch on to ensure the obstacle is always clearly marked.

The advanced light optic uses a single LED for minimal power consumption. The corrosion resistant, polycarbonate lens is specifically designed for use with LEDs to maximize light intensity and uniformity. Integrated sensors in the light are able to detect when the ambient light threshold drops sufficiently and the light will begin operation automatically.

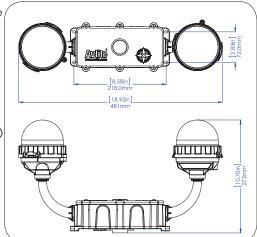
The light fixture incorporates internal diagnostic checking and an alarm contact for remote monitoring. Typically the alarm relay is energised in normal operation and is released if there is an LED or power fault.

All obstruction lights also have an adjustable operation mode setting to allow the user to easily toggle between dusk-till-dawn and 24 hour operation modes.

The obstruction light is also available with combined visual and infrared (IR) for visibility to pilots using night vision.

Optional GSM Monitoring

The Avlite dual obstruction light (VDC model) is available with GSM Cell-Phone Monitoring, enabling operators to remotely monitor the status of their installation. The system can also be configured to send out SMS text messages or e-mail alerts to designated operators should alarm conditions be triggered, such as low voltage or light failure.





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FAA L-810 Low Intensity Obstruction Light

AV-OL Series Universal AC or Universal DC Dual Light Fixture

SPECIFICATIONS**

Light Characteristics Light Source

Available colors

Peak Intensity (cd)†

Horizontal Output (degrees) Vertical Divergence (degrees)

Reflector Type Intensity Adjustments Operation Mode Adjustment

LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)‡

Power (W)‡

Current Draw (mA)‡

Power (W)‡

Circuit Protection Operating Voltage Temperature Range

Physical Characteristics

Body Material

Lens Material

Lens Diameter (mm/inches)

Lens Design

Mountina

Height (mm/inches) Width (mm/inches)

Mass (kg/lbs)

Product Life Expectancy

Environmental Factors

Humidity Icing

Wind Speed

Certifications

Quality Assurance

Waterproof

Intellectual Property

Trademarks

Warranty * **Options Available**

12-48 VDC

As tested; FAA: AV-OL-FL810-12-R LED

Red as standard. Other colors available on request, including IR Complies with FAA L-810 obstruction

360

FAA Model: as per FAA L-810 obstruction light specification

Single LED Optic

FAA Model: 32.5cd

User-adjustable between dusk-till-dawn & 24 hour operation

>100,000

Failover Configuration @ 12V: FAA L-810 @ 32.5cd Steady-on with relay energised: Imax = 120

FAA L-810 @ 32.5cd Steady-on with relay energised & IR: Pmax = 1.44

Dual Lit Configuration @ 12V: FAA L-810 @ 32.5cd Steady-on with relay energised: Imax = 240

FAA L-810 @ 32.5cd Steady-on with relay energised & IR: Pmax = 2.88

Integrated

12 - 48 VDC -40 to 80°C

7-stage powder-coated aluminium

LEXAN® Polycarbonate

100 / 3⁷/8

Single LED Optic

FAA Model: 3/4 inch pipe thread

FAA Model: 272 / 103/4

481 / 19

2.3 / 5

Up to 12 years

0 to 100%, MIL-STD-810F 22kg per square inch

Up to 240kph

EN61000-6-3:1997. EN61000-6-1:1997

ISO9001:2008

L-810 Steady-burning Red Obstruction Light

AVLITE® is a registered trademark of Avlite Systems

3 year warranty

- · Variety of solar/battery configurations

 GSM Cell-Phone Monitoring
- Dual visual/IR output
- RS422/485 communications port

110-240 VAC

As tested; FAA: AV-OL-FL810-UM-R LED Red as standard. Other colors

available on request, including IR Complies with FAA L-810 obstruction

360

FAA Model: as per FAA L-810 obstruction light specification Sinale LED Optic

FAA Model: 32.5cd

User-adjustable between dusk-till-dawn & 24 hour operation

>100,000

n/a

FAA L-810 @ 32.5cd Steady-on with relay energised: Pmax = 3 Smax = 8VA

Note: One light head ON at one time (redundant switch over function) Integrated

110 - 240 VAC 50/60Hz

-40 to 80°C

7-stage powder-coated aluminium

LEXAN® Polycarbonate

Single LED Optic

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481 / 19

2.3 / 5

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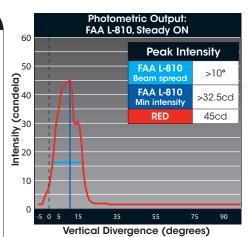
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3 year warranty Variety of solar/battery

configurations

Dual visual/IR output



HOW TO ORDER

FAA Compliant Dual Light Fixture

AV-OL-FL810-[Model]-[Color]-[D]-[?]-[?]

Product No.:

12 = 12-48 VDC

UM = 110-240 VAC

Color: -

R = Red

IR = Infrared RIR = Combined Red/IR

Dual Fixture:

[D] = Dual light fixture

Monitoring & Control: GSM = GSM (VDC model only)

[blank] = No GSM

RS Communications Port:-

RS = RS communications port (VDC model only) [blank] = No RS communications port

Note: Please contact your Avlite representative for optional power supply solutions













