FAA L-810 Low Intensity Obstruction Light

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

Optional





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 150 feet (45 metres) above ground which pose a danger to aircraft at night, such as telecommunication towers, wind turbines, buildings and other tall structures.

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 energized 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.

Optional GSM Monitoring

The Avlite dual obstruction light is available with GSM Cell-Phone Monitoring via a seperate control box, 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.









Cost Effective

- Energy efficient lighting solution
- low maintenance costs
- Low LED power consumption



Features

- Alarm contact for remote monitoring
- Integrated light sensor for day/night operation
- Simultaneous twin operation or redundant failsafe
- Marks obstacles up to 150 feet (45 metres) above ground

Applications

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



Optional

- Solar power configurations
- Combined visual and Infrared visibility
- GSM monitoring
- Available in universal DC (12-48VDC) or AC (110-240VAC)
- Optional RS422/485 communication port for monitoring & synchronization for VDC models



Easy Install

Adjustable operation mode



Compliance

FAA Engineering Brief No. 67D



Certifications

- FAA L-810 Low Intensity Obstruction Light, FAA AC NO: 150/5345-43G
- DGAC L-810, Low Intensity Obstruction Light

















Technical Specifications '*

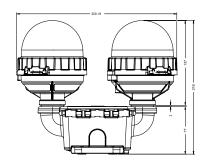
	FAA L-810 LIOL Dual Fixture	
	12-48 VDC	110-240 VAC
Light Characteristics		
Light Source	As tested; FAA: AV-OL-FL810-12-R LED	As tested; FAA: AV-OL-FL810-12-R LED
Available colors	Red as standard. Other colors available on request, including IR	Red as standard. Other colors available on request, including IR
Peak Intensity (cd)†	Complies with FAA L-810 obstruction lights	Complies with FAA L-810 obstruction lights
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	as per FAA L-810 obstruction light specification	as per FAA L-810 obstruction light specification
Reflector Type	Single LED Optic	Single LED Optic
Operation Mode Adjustment	User-adjustable between dusk-till-dawn & 24 hour operation	User-adjustable between dusk-till-dawn & 24 hour operation
LED Life Expectancy (hours)	>100,000	>100,000
Electrical Characteristics		
Failover Configuration @ 12V: Power (W)‡	FAA L-810 @ 32.5cd Steady-on with relay energized: Pmax = 1.44	FAA L-810 @ 32.5cd Steady-on with relay energized: Pmax = 5 Smax = 13.4VA
Dual Lit Configuration @ 12V: Power (W)‡	FAA L-810 @ 32.5cd Steady-on with relay energized: Pmax = 2.88	FAA L-810 @ 32.5cd Steady-on with relay energized: Pmax = 4 Smax = 10.6VA
Circuit Protection	Integrated	Integrated
Operating Voltage	12 – 48 VDC	110 - 240 VAC 50/60Hz
Temperature Range	-40 to 80°C	-40 to 80°C
Physical Characteristics		
Body Material	Reinforced Polycarbonate composite – UV stabilized	Reinforced Polycarbonate composite – UV stabilized
Lens Material	LEXAN® Polycarbonate – UV stabilized	LEXAN® Polycarbonate – UV stabilized
Lens Diameter (mm/inches)	100 / 3%	100 / 3%
Lens Design	Single LED Optic	Single LED Optic
Mounting	FAA Model: ¾ inch pipe thread	FAA Model: ¾ inch pipe thread
Height (mm/inches)	FAA Model: 216 / 8½	FAA Model: 216 / 81/2
Width (mm/inches)	259.2 / 10¼	259.2 / 10¼
Depth (mm/inches)	133 / 5%	133 / 5¼
Mass (kg/lbs)	1.15 / 2.53	1.15 / 2.53
Product Life Expectancy	12 years plus	12 years plus
Environmental Factors	0 to 4000% A4II OTD 0405	0
Humidity Icing	0 to 100%, MIL-STD-810F 3.41kg per square cm /	O to 100%, MIL-STD-810F 3.41kg per square cm /
Wind Spood	48.5lbs per square inch Up to 240kph / 150mph	48.5lbs per square inch
Wind Speed Certifications	ор to 240крп7 ізотпрп	Up to 240kph / 150mph
CE	EN61000-6-3:2007 EN61000-6-1:2007 FCC 47 CFR Part 15, subpart B	EN61000-6-3:2007 EN61000-6-1:2007 FCC 47 CFR Part 15, subpart B
Quality Assurance	ISO9001:2015	ISO9001:2015
FAA, DGAC-Mexico	L-810 Medium Intensity Obstruction Light (Qualified by Intertek)	L-810 Medium Intensity Obstruction Light (Qualified by Intertek)
Waterproof	IP68	IP68
Intellectual Property		
Trademarks	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
Warranty *	5 year warranty	5 year warranty
Options Available	Variety of solar/battery configurations GSM Cell-Phone Monitoring GPS Synchronisation RS422/485 communications port	Variety of solar/battery configurations Dual visual/IR output IR LED

Specifications subject to change or variation without notice * Subject to standard terms and conditions

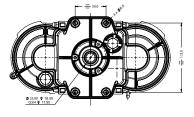
FAA Monitoring Requirement

The FAA states that 'conspicuity is achieved only when all recommended lights are working' and 'any outage should be corrected as soon as possible'. The operational status of all lights should be confirmed at least once every 24 hours. If a structure is not easily inspected by visual observation, an automatic monitoring system should be used. Avlite has a selection of automatic monitoring systems available for use with their obstruction light range to comply with FAA requirements.

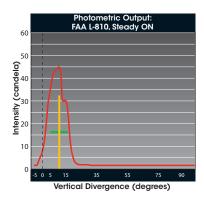
Technical Illustration







Photometric Output





How to Order FAA L-810 **LIOL Dual Fixture** AV-OL-D-[Chassis]-[?]-[?]-[?] Segment: Product Type: Obstruction Light Dual Enclosure: B1, B2, B3, S1, S2, S3 Standard: Input: DC, UM LED Configuration: RR, RIR Enclosure; B1: Base feed, Splitter, Concurrent B2: Base feed, Splitter, Failover B3: Base feed, Splitter, Synchronous S1: Side Feed, Splitter, Concurrent S2: Side Feed, Splitter, Failover S3: Side Feed, Splitter, Synchronous









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