

CASA Low Intensity Obstruction Light

AV-OL Series Universal AC or Universal DC Light Fixture

Features

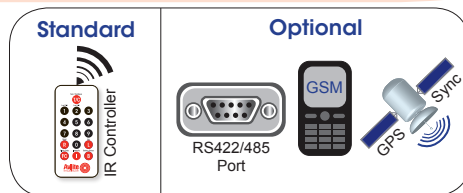
- Cost effective, energy efficient obstruction lighting solution
- Available in universal DC: will accept between 12-48VDC
- Available in universal AC: will accept between 110-240VAC
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance time and costs
- Provision for external hardwire synchronisation
- Optional solar powered configurations available
- Optional onboard GPS receiver for synchronisation
- Optional GSM monitoring (VDC model only)
- Optional general purpose I/O with galvanic isolation
- Optional RS422/485 communications port for monitoring

Applications

- Low Intensity Obstruction Light for marking obstacles up to 45 metres in height

Compliance

- Civil Aviation Safety Authority of Australia (CASA) Manual of Standards Part 139 - Aerodromes, Version 1.11 November 2013



This Avlite light fixture is a steady-on, low intensity LED obstruction light designed to comply with CASA LIOL requirements. The model can be used for marking obstacles up to 45 metres above ground.

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).

The advanced light optic uses a multiple, high intensity LEDs for efficient operation. The corrosion resistant, polycarbonate lens is specifically designed for use with LEDs to maximize light intensity and uniformity.

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



Heavy duty, cast aluminium base

Optional GSM Monitoring & Control (VDC model only)

The Avlite obstruction light 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.

Optional GPS Synchronisation

Avlite has utilized the latest advancements in GPS technology to develop an internal synchronisation system that can be incorporated into the lights if set to flashing. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.

Optional RS422/RS485 Monitoring

The obstruction light is available with RS422/485 monitoring functionality, enabling operators to monitor the status of the unit in real-time. The system tracks critical application specific parameters including alarm status, LED status, operation mode, intensity, flash code and source voltage.

IR Remote Control

The IR remote is used to communicate with Avlite lighting products that have an IR sensor fitted. The remote control is used to control functions such as operation mode (dusk-till-dawn or always-on) and the lux levels (lux settings for dusk and dawn).

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SPECIFICATIONS * *

Light Characteristics

Available colors

Peak Intensity (cd)†

Horizontal Output (degrees)

Vertical Divergence (degrees)

Available Flash Characteristics

Electrical Characteristics

Operating Voltage

Power (Watts)

Circuit Protection

Temperature Range

Physical Characteristics

Body Material

Lens Material

Lens Diameter (mm/inches)

Lens Design

Mounting

Height (mm/inches)

Width (mm/inches)

Mass (kg/lbs)

Product Life Expectancy

Environmental Factors

Humidity

Icing

Wind Speed

Certifications

CE

Quality Assurance

Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

12-48 VDC

AV-OL-CL-12-R

Red as standard. Other colors available on request

Complies with CASA LIOL. 100cd

360

>10.

100cd minimum at +6° and +10° above the horizontal.

Not less than 10cd at all elevation angles between -3° and +90° above the horizontal.

Steady-on. Flash rates available on request

12 - 48VDC

17W

Integrated

-40 to 80°C

7-stage powder-coated aluminium

LEXAN® Polycarbonate

- UV stabilized

171 / 6¾

Multi LED Optic

200mm bolt pattern

151 / 6

230 / 9

5 / 11

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

IP67

AVLITE® is a registered trademark of Avlite Systems

3 year warranty

• Variety of solar/battery configurations

• GSM Cell-Phone Monitoring

• GPS Synchronisation

• RS422/485 communications port

110-240VAC

AV-OL-CL-UM-R

Red as standard. Other colors available on request

Complies with CASA LIOL. 100cd

360

>10.

100cd minimum at +6° and +10° above the horizontal.

Not less than 10cd at all elevation angles between -3° and +90° above the horizontal.

Steady-on. Flash rates available on request

110 - 240VAC

20W

Integrated

-40 to 80°C

7-stage powder-coated aluminium

LEXAN® Polycarbonate

- UV stabilized

171 / 6¾

Multi LED Optic

200mm bolt pattern

151 / 6

230 / 9

5 / 11

Up to 12 years

0 to 100%, MIL-STD-810F

22kg per square inch

Up to 240kph

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3 year warranty

• GPS Synchronisation

• RS422/485 communications port

Characteristics of CASA Low Intensity Obstacle Lights

CASA low intensity obstacle lights, for general applications, are to have the following characteristics:

- Fixed lights showing red
- a horizontal beam spread that results in 360° coverage around obstacle
- a peak intensity of 100cd minimum
- a vertical beam spread (to 50% of peak intensity) of 10°
- a vertical distribution with 100cd minimum at +6° and +10° above the horizontal
- not less than 10cd at all elevation angles between -3° and +90° above the horizontal

Note: the intensity level is higher than ICAO standards because in Australia only obstacles assessed as significant to aircraft operations are required to be provided with obstacle lighting

References: Civil Aviation Safety Authority (CASA) Manual of Standards Part 139 - Aerodromes, Version 1.11 November 2013

HOW TO ORDER

CASA Compliant LIOL

AV-OL-CL-[?]-[R]-[?]-[?]

Product No.: _____

Model: _____
 12 = 12-48 VDC
 UM = 110-240 VAC

Color: _____
 R = Red
 Note: other colours available on request

Monitoring & Control: _____
 GSM = GSM (VDC model only)
 GPS = GPS Synchronisation
 [blank] = No monitoring & control

RS Communications Port: _____
 RS = RS communications port
 [blank] = No RS communications port

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

