

ICAO Dual Type A & Type B Medium Intensity Obstruction Light



AV-OL Series Universal AC or Universal DC Light Fixture



- Dual White/Red, Day/Night
- LED Optic
- Low power consumption
- In-built control & monitoring options
- Impact modified UV-stabilized acrylic lens
- Lightweight
- Small form factor

Features

- Cost effective, energy efficient obstruction lighting solution
- Available in universal DC: will accept between 24-48VDC
- Available in universal AC: will accept between 110-240VAC (external supply)
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance time and costs
- Provision for external hardware synchronisation
- Optional solar powered configurations available
- Optional onboard GPS receiver for synchronisation with other lights
- Optional GSM monitoring
- Optional general purpose I/O with galvanic isolation
- Optional RS422/485 communications port for monitoring

Applications

Medium Intensity Obstruction Light for marking obstacles from 45 metres in height

Certifications

Medium Intensity Type A and Type B Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2013, 'Aerodrome Design and Operations'

This Avlite light fixture is a flashing, medium intensity LED obstruction light designed to comply with ICAO MIOL Type A and Type B requirements for day/night marking of obstacles. The model can be used for marking obstacles from 45 metres above ground, 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 (24-48VDC) or universal AC (110-240VAC).

The advanced light optic uses a multiple, high intensity LEDs for efficient operation. The corrosion resistant, acrylic 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.

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.

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. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.



LED lens



IR Remote Programmer

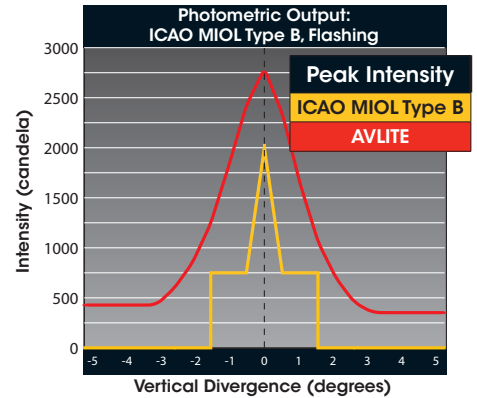
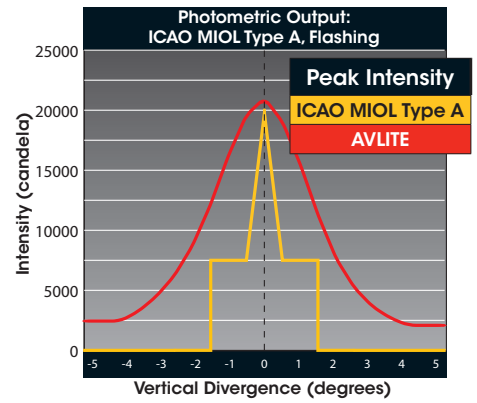


Heavy duty, cast aluminium base

SPECIFICATIONS * *		ICAO Dual Type A & Type B MIOL	
		24-48 VDC	110-240 VAC (external)
Light Characteristics			
Available colours	White during day, Red at night as standard. Other colours available on request		White during day, Red at night as standard. Other colours available on request
Effective Intensity (cd)†	Type A (day): Complies with ICAO MIOLA. 20000cd Type A (night): Complies with ICAO MIOLA. 2000cd Type B (night): Complies with ICAO MIOLB. 2000cd		Type A (day): Complies with ICAO MIOLA. 20000cd Type A (night): Complies with ICAO MIOLA. 2000cd Type B (night): Complies with ICAO MIOLB. 2000cd
Horizontal Output (degrees)	360		360
Vertical Divergence (degrees)	As per ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Sixth edition, July 2013		As per ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Sixth edition, July 2013
Available Flash Characteristics	Type A & B: 0.5s ON, 2.5s OFF - 16.6% duty cycle		Type A & B: 0.5s ON, 2.5s OFF - 16.6% duty cycle
Electrical Characteristics			
Operating Voltage	24 - 48 VDC		110 - 240 VAC 50/60Hz
Power (Average Flashing)	Type A (day): 40W Type A (night): 6W Type B (night): 10W		Type A (day): Pmax: 40W, Smax: 54VA Type A (night): Pmax: 6W, Smax: 8VA Type B (night): Pmax: 10W, Smax: 14VA
Circuit Protection	Integrated		Integrated
Temperature Range	-40 to 80°C		-40 to 80°C
Physical Characteristics			
Body Material	7-stage powder-coated aluminium		7-stage powder-coated aluminium
Lens Material	Impact modified UV stabilized acrylic		Impact modified UV stabilized acrylic
Lens Diameter (mm/inches)	171 / 6¾		171 / 6¾
Lens Design	Multi LED Optic		Multi LED Optic
Mounting	200mm bolt pattern		200mm bolt pattern
Height (mm/inches)	209 / 8¼		209 / 8¼
Width (mm/inches)	296 / 11¾		296 / 11¾
Mass (kg/lbs)	8.8 / 19½		8.8 / 19½
Product Life Expectancy	12 years plus		12 years plus
Environmental Factors			
Humidity	0 to 100%, MIL-STD-810F		0 to 100%, MIL-STD-810F
Icing	3.41kg per square cm / 48.5lbs per square inch		3.41kg per square cm / 48.5lbs per square inch
Wind Speed	Up to 240kph / 150mph		Up to 240kph / 150mph
Certifications			
CE	EN61000-6-3:2007 EN61000-6-1:2007		EN61000-6-3:2007 EN61000-6-1:2007
Quality Assurance	ISO9001:2008		ISO9001:2008
Waterproof	IP68		IP68
Intellectual Property			
Trademarks	AVLITE® is a registered trademark of Avlite Systems		AVLITE® is a registered trademark of Avlite Systems
Warranty *			
Options Available		• Variety of solar/battery configurations	• GSM Cell-Phone Monitoring
		• GSM Cell-Phone Monitoring	• GPS Synchronisation
		• GPS Synchronisation	• RS422/485 communications port
		• RS422/485 communications port	



† Intensity setting subject to solar availability
 * Specifications subject to change or variation without notice
 • Subject to standard terms and conditions



HOW TO ORDER

ICAO Type A & Type B MIOL

AV-OL-IMAB-[Model]-R-[?]-[?]

Product No.: _____

Certification:
IMAB = ICAO Type A & B MIOL

Model:
24 = 24-48 VDC
UM = 110-240 VAC

Colour:
R = Red

Monitoring & Control:
GSM = GSM
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

Optional GSM Monitoring & Control

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.

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).

