

# L500-xxx-(G)

## High intensity LED obstruction light

High intensity Obstruction light for day, twilight and night time marking of structures that present a hazard to aviation. White flashing in day and white flashing or red flashing / steady / Infra-Red in night mode. Incorporates the benefits of advanced LED, optical and system control technologies to meet the most demanding applications.



### KEY FEATURES

- Five year warranty
- Housing based on 30 years of experience offshore product design experience
- Lightweight and easy to install
- Extremely low wind factor
- Integrated design with built-in photocell and monitoring – no additional power supply enclosures required
- Built in GPS for synchronisation
- No maintenance required over service life
- Orga optical design produces highly accurate and uniform narrow light beam
- Optional Integrated automatic flash synchronisation between lights
- Extremely low power consumption
- Constant power draw – eliminates high peak power demands especially important when running from UPS
- 15 year field proven power supply technology
- Long life power supply to match LED life, does not use electrolytic capacitors
- Made in the Netherlands

### PERFORMANCE CHARACTERISTICS

- Horizontal beam pattern: 360° (2S subtype = >120°)
- Lightperformance: see table
- Effective intensity: see table
- Vertical beam pattern: 3° minimum
- Infrared (if applicable) wavelength ~850nm
- Infrared (if applicable) beam follows visible light, or beam is according to local standards

### PHYSICAL CHARACTERISTICS

- Dimensions: L x W x H: see drawing
- Weight: 23kg (2S subtype = 33kg)
- Design degree of protection: IP65
- Operating temperature range: -40°C/+45 °C
- Shipping information 666 x 666 x 530 mm; approx. 24.9 kg
- Shipping information 666 x 666 x 635 mm; approx. 34.9 kg (2S subtype only)
- Supplied with pre-mounted Orga cable for easy installation and high reliability ready for use
- Cable bending radius static: 10x cable diameter
- Outer cable diameter: Ø12.5 +/- 0.5 mm
- Cable weight: 260 g/m
- Level indicators for correct mounting

### ELECTRICAL CHARACTERISTICS

- Operating voltage: 120-240Vac nominal 50-60Hz
- Power factor: >0.9 in day intensity mode
- Power consumption: see table
- Power consumption infrared: ±4W
- Power consumption heater: standard 96w
- Overvoltage protection: Class III according to IEC61643-1

### SYSTEM DESIGN, CONTROL AND MONITORING

- Use as a stand-alone light, or in a multiple light system with an Orga CIP controller
- Optional Orga CIP controller facilities provide control interfaces for:
  - "smart switch" aircraft detection input
  - Remote photocell control input/override
  - Visibility condition variable intensity input; intensity steps 100%, 30% and 10%

### STANDARDS/CERTIFICATION

- Complies with ICAO Annex 14 Volume 1, Ninth Edition, July 2022, Chapter 6, High Intensity Type A, B obstacle light
- TraFi wind turbines day markings and obstacle lights 12.11.2013



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Product	Subtype	Light Performance			Operating voltage	Additional Information			Standard
		Day	Twilight	Night		Power consumption (W) @ 20°C			
					Day	Twilight	Night		
L500	-63B2/63B2-IRF	50.000 cd 40 FPM White	10.000 cd 40 FPM White	1.000 cd 40 FPM Red + IR	120-240Vac	65	16	11	ICAO TraFi
L500	-63B2/63C2-IRF	50.000 cd 40 FPM White	10.000 cd 40 FPM White	1.000 cd Red Steady + IR	120-240Vac	65	16	13	ICAO TraFi
L500	-63B2-IRF	50.000 cd 40 FPM White	10.000 cd 40 FPM White	1.000 cd 40 FPM White + IR	120-240Vac	60	15	11	ICAO TraFi
L500	-63B-IRF-G	100.000 cd 40 FPM White	20.000 cd 40 FPM White	2.000 cd 40 FPM White + IR	120-240Vac	125	25	14	ICAO TraFi
L500	-63A-2S-G	200.000 cd 40 FPM White	20.000 cd 40 FPM White	2.000 cd 40 FPM White + IR	120-240Vac	81	14	11	ICAO
L500	-63A-2S-60-G	200.000 cd 60 FPM White	20.000 cd 60 FPM White	2.000 cd 60 FPM White + IR	120-240Vac	120	17	11	ICAO
L500	-63B-AF-IRF-G	100.000 cd 40 FPM White	20.000 cd 40 FPM White	2.000 cd 40 FPM White + IR	120-240Vac	107	25	14	ICAO TraFi
L500	-63B-1E-IRFa-G	100.000 cd 40 FPM White + IR	20.000 cd 40 FPM White + IR	2.000 cd 40 FPM White + IR	120-240Vac	125	25	14	ICAO TraFi
L500	-63B-2E-IRFa-G	100.000 cd 40 FPM White + IR	20.000 cd 40 FPM White + IR	2.000 cd 40 FPM White + IR	120-240Vac	125	25	14	ICAO TraFi
L500	-63B-IRFa-G	100.000 cd 40 FPM White + IR	20.000 cd 40 FPM White + IR	2.000 cd 40 FPM White + IR	120-240Vac	125	25	14	ICAO TraFi
L500	-63B-IRF-NG	100.000 cd 40 FPM White	20.000 cd 40 FPM White	2.000 cd 40 FPM White + IR	120-240Vac	125	25	14	ICAO TraFi

\* Heater active; <10°C\_>0°C, 50% duty cycle 48 Watts average, in addition to the nominal power consumption

\*\* Heater active; <0°C, 100% duty cycle 96 Watts average, in addition to the nominal power consumption

\*\*\* Subtypes containing '2S' in the name have directional light of 2 segments

\*\*\*\* Subtypes containing '1E' or '2E' in the name have an elevated beam of 1° or 2° degrees



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