SP-500

OBSTRUCTION LIGHTING UNIT

HIGH INTENSITY **TYPE A/B**

Compliance:
ICAO Annex 14 Vol. I (7th. Edition, July 2016)

FEATURES

- Certified product
- High energy effeciency
- Low weight
- Easy installation

APPLICATION

High intensity, designed for usage as obstruction marking

TECHNICAL SPECIFICATIONS

Optics

- Daylight 360° omnidirectional, flash mode
- Light intensity 200 000 cd / 100 000 cd / 20 000 cd, type A/B (flashing mode)
- Lifetime of optical components over 100 000 hours

Functions

- Day/night detection system, realized by means of twillight sensor or astronomical clock (controller equipment)
- Integrated GPS/GLONASS control system, facilitating cooperation of a group of lamps working in wind turbine farms or other facilities requiring synchronous operation
- The lamp reacts to the background luminance level by adjusting the light intensity - type B/A

Power source

- Low power consumption: up to 400W (Type B) - for 40 fpm
- Low power consumption: up to 610W (Type A) - for 40 fpm
- Integrated overvoltage protection type TI + TII (class B + C) at the level of 40kA protecting against surges specified in PN-EN 61000-4-5:2009

Compliance

- Implement the requirements of regulations issued by the Federal Aviation Administration (FAA), the International Civil Aviation Organization (ICAO), the European Aviation Safety Agency (EASA)
- Mechanical shock resistance - at least IK08
- Certificat of electromagnetic compatibility of the lamp power supply (EMC)
- Protection of IP65 or higher

Manufactured by:

Solutions4GA Sp. z o. o. | Sylwestra Kaliskiego 57, 01-476 Warsaw, Poland | t.: +48 22 270 10 29 | office@solutions4ga.com | **VAT EU:** PL 524 276 80 55

Body

- Material: light alloys and composites
- Very low lamp weight not exceeding <14 kg (lamp holder), < 10 kg (lamp controller)
- Enclosure surface protected with antioxidant layers

Operation range

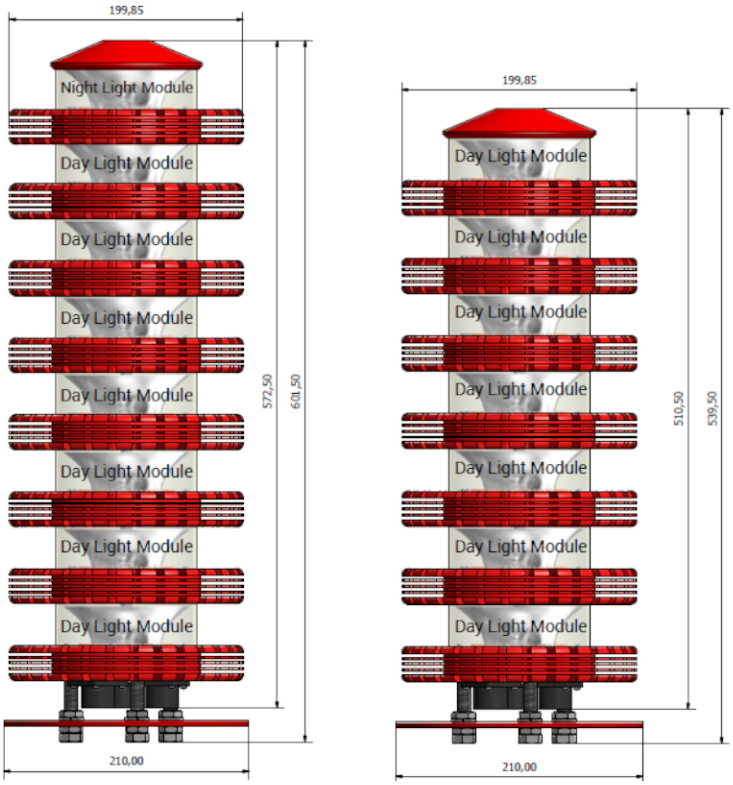
Operating temperature: From -30°C to +55°C
storage temperature: From -50°C to +75°C

Optional

Obstacle lighting lamps combining the functions of both types (night obstacle marking and day obstacle marking) in one lamp

- low intensity (night) according to ICAO type A or B and high intensity (day) according to ICAO type A/B

- medium intensity (night) according to ICAO type B or C and high intensity (day) according to ICAO type A/B



ELECTRICAL PARAMETERS

Series lamp type **SP-500**	Supply voltage	Supply voltage VAC/VDC			Average level of power consumption [W]	Type according to ICAO
		Min.	Typ.	Max.[V]		
SP-500 without flash synchronization	48 VAC/VDC	46	48	55	< 610 W (+/-2%) for 40 fpm < 840 W (+/-2%) for 60 fpm	A
					< 400 W (+/-2%) for 40 fpm < 610 W (+/-2%) for 60 fpm	B
SP-500 without flash synchronization	230 VAC/VDC	92	230	256	< 610 W (+/-2%) for 40 fpm < 840 W (+/-2%) for 60 fpm	A
					< 400 W (+/-2%) for 40 fpm < 610 W (+/-2%) for 60 fpm	B
SP-500 with flash synchronization	48 VAC/VDC	46	48	55	< 610 W (+/-2%) for 40 fpm < 840 W (+/-2%) for 60 fpm	A
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200 000 cd / 100 000 cd / 20 000 cd, type A/B (flashing mode) fpm – flashes per minute						

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