

# SP-502

## OBSTRUCTION LIGHTING UNIT

MEDIUM INTENSITY

TYPE A

TYPE B/C



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

### FEATURES

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

### APPLICATION

Medium intensity, designed for usage as obstruction marking

## TECHNICAL SPECIFICATIONS

### Optics

- Daylight, 360° omnidirectional, flash mode, type A
- Daylight (flash mode, type A) and night light (flash mode type B or steady mode type C), omnidirectional 360°
- Light intensity 20 000 cd, colour temperature 5700K, light colour white
- Light intensity 2 000 cd, types B and C, light length 620 nm, light colour red
- Lifetime of active optics greater than 100 000 hours

### Functions

- Day/night detection system, synchronized with dusk switch or astronomical clock (controller equipment)
- GPS/GLONASS control system, facilitating cooperation of a group of lamps working in wind turbine farms or other objects requiring synchronous operation (Equipped with lamp driver)

### Power source

- Low power consumption for daytime operation, up to 110W - type A, flash mode for 20 fpm
- Low power consumption for night operation, up to 25W - type B, flash mode for 20 fpm
- Low power consumption for night operation, up to 35W - type C, steady mode
- Integrated overvoltage protection type T1+TII (B+C class) of 40kA protecting against impacts specified in the standard 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
- Certificate of electromagnetic compatibility of the lamp power supply (EMC)
- Protection of IP65 or higher

Manufactured by:

**BSTC.PL**  
SMART TECHNOLOGIES CLUSTER

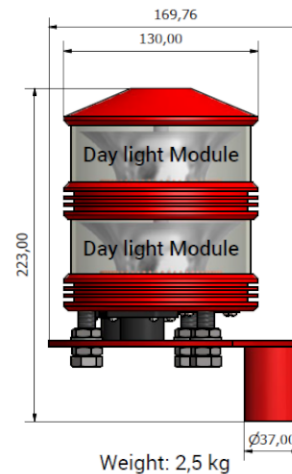
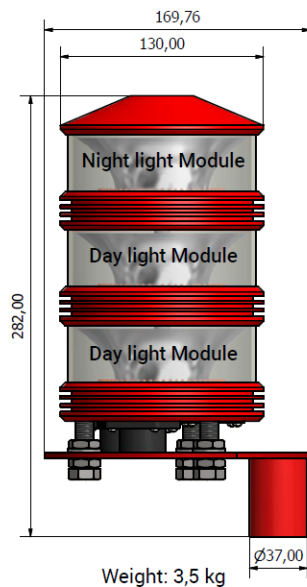
## Body

- Material: light alloys and composites
- Low lamp weight <2.5 kg or < 3.5 kg
- Low lamp driver weight: 8 kg
- Lamp housing surface protected by layers of antioxidants

## Operation range

Operating temperature: From -30°C to +55°C

storage temperature: From -50°C to +75°C



## ELECTRICAL PARAMETERS

Series lamp type SP-502	Supply voltage	Supply voltage VAC/VDC			Average level of power consumption [W]	Type according to ICAO
		Min.	Typ.	Max.[V]		
SP-502	48 VAC/VDC	46	48	55	< 110 W (+/-2%) for 20 fpm < 290 W (+/-2%) for 60 fpm	A
SP-502	230 VAC/VDC	92	230	256	< 110 W (+/-2%) for 20 fpm < 290 W (+/-2%) for 60 fpm	A
SP-502 medium intensity lamp module working at night	48 VAC/VDC	46	48	55	< 110 W (+/-2%) for 20 fpm < 290 W (+/-2%) for 60 fpm	A
					< 25 W (+/-2%) for 20 fpm	B
					<35 W	C
SP-502 medium intensity lamp module working at night	230 VAC/VDC	92	230	256	< 110 W (+/-2%) for 20 fpm < 290 W (+/-2%) for 60 fpm	A
					< 25 W (+/-2%) for 20 fpm	B
					<35 W	C

20 000 cd, type A (flash operation)  
Optional: 2 000cd, type C/B (steady/flash operation)  
fpm – flashes per minute