

# SMART BEACON

## type SB2000/GS, type SB2000/NGS

### Electrical parameters:

	SMART BEACON type	SMART BEACON voltage type	Voltage [V]			Average power consumption [W]	ICAO type
			Min.	Typ.	Max.		
GPS SYNCHRONIZATION	SB2000/GS	24 VAC/VDC 48VAC/VDC	22	24	51	< 15 (+/- 2%)	B
	SB2000/GS	230 VAC/VDC	209	230	256	< 15 (+/- 2%)	B
	SB2000/GS	110 VAC/VDC	96	110	224	< 15 (+/- 2%)	B
WITHOUT GPS SYNCHRONIZATION	SB2000/NGS	24 VAC/VDC 48VAC/VDC	22	24	51	< 15 (+/- 2%)	B
	SB2000/NGS	230 VAC/VDC	209	230	256	< 15 (+/- 2%)	B
	SB2000/NGS	110 VAC/VDC	96	110	224	< 15 (+/- 2%)	B

**Certified product, energy efficiency, very low weight, easy to assemble**

### Key features:



- **low power consumption in flashing mode <15W for 30 fpm (ICAO type B)**
- very low weight of the light not exceeding **2,9 kg (SB2000/NGS), 3,2 kg (SB2000/GS)**
- **day/night detection system** synchronised with the astronomical clock
- self-contained unit with a protection class of IP65
- enclosure surface protected with antioxidant coatings
- **electromagnetic compatibility certificate (EMC)**
- **integrated control system** to facilitate operation of the set of lights on such objects as wind farms which require synchronised operation (SB2000/GS)
- **lifetime of active optical components in excess of 100,000 hours**
- integrated circuit breaker class T2 at 36kA to protect against voltage surges as set out in the European standard EN 61000-4-5 {Electromagnetic, compatibility, testing and measurement. Immunity Standard - Surge Immunity}
- operating temperature from -55°C to +55°C, storage temperature from -65°C to +75°C
- 36 months warranty with the option of extending to 72 months
- complies with the requirements of standards set by Federal Aviation Administration (**FAA**), International Civil Aviation Organization (**ICAO**), European Aviation Safety Agency (**EASA**)

Made in Poland

2 000 cd

22V - 51 V  
96V - 256V

VAC  
VDC

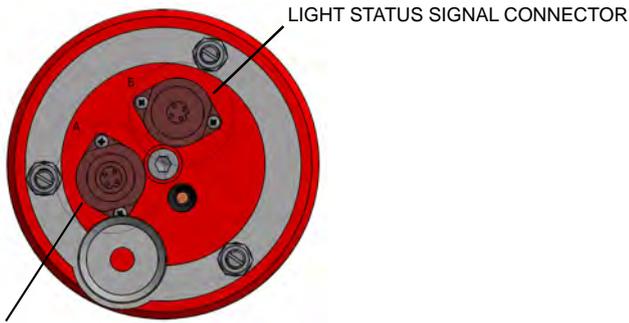
< 15W  
for 30 fpm

< 2,9 kg  
< 3,2 kg

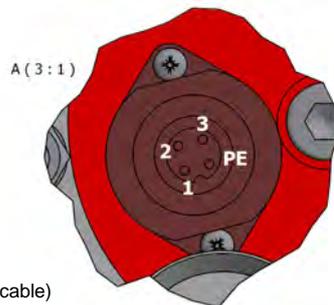
CE

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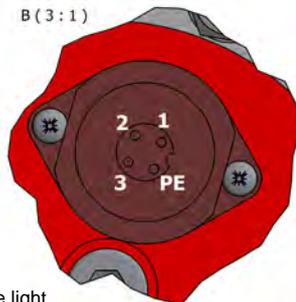


POWER SUPPLY AND SYNCHRONISATION SIGNAL CONNECTOR



A (3:1)

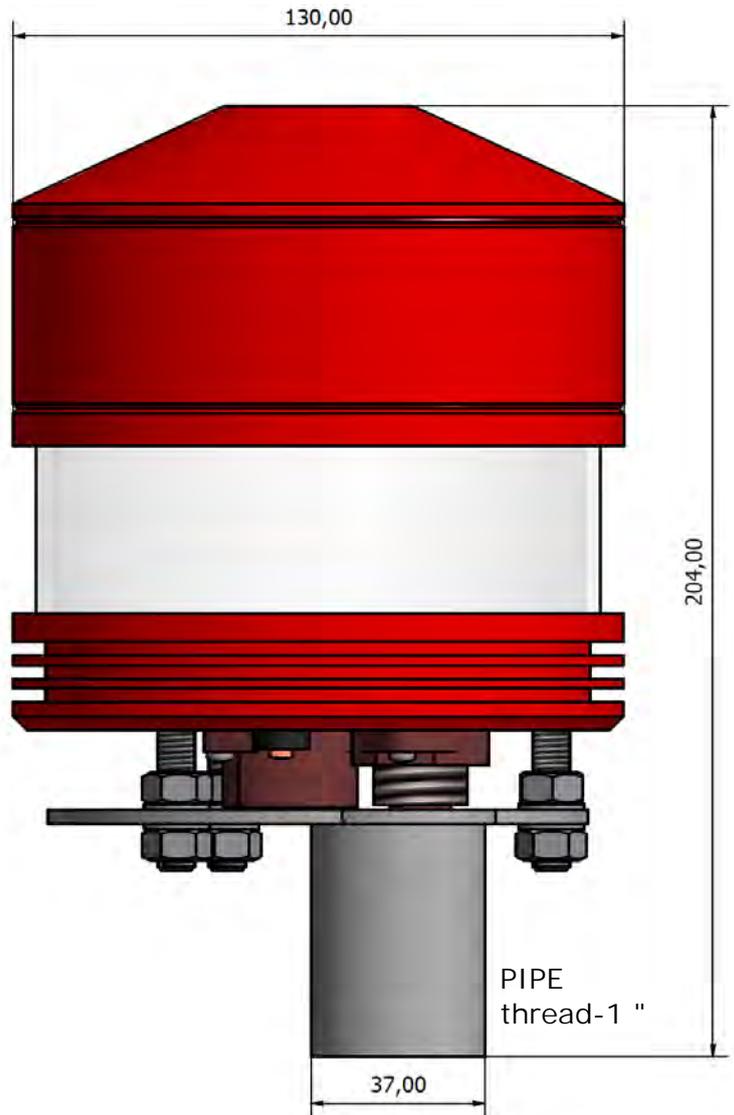
Connector A, pin 1: power supply (positive cable)  
Connector A, pin 2: power supply (negative cable)  
Connector A, pin 3: external synchronisation signal (positive cable)  
Connector A, pin PE: PE (ground) conductor



B (3:1)

Connector B, pin 1: signal for dirty shields of the light  
Connector B, pin 2: signal for horizontal position of the light  
Connector B, pin 3: signal for luminous intensity of optical components  
Connector B, pin PE: joint for status signal

Using dedicated pinouts located in a four-pin signal socket (socket B,) it is possible to send signals from the light to external systems based on Normal Connect (NC) contacts signalling two states. A normal state is when contacts are closed and any emergency state is signalled by open contacts. An additional controller continuously monitors day and night to correlate a value with the astronomical clock so as the light is turned on after dusk. Control over flashes emitted by the light is integrated with a receiver of the signal from the GLONASS and GPS satellites, which synchronises operation of the set of SB2000/GS lights, e.g. marking aviation obstacles in a wind farm.



Our engineers have equipped a controller for the light with the systems to control key parameters of crucial importance for proper operation of the aviation obstruction lighting system. These innovative control functions include:

- detection of the light position in space, signalling any change in horizontal position of the light,
- detection of damage to/wear of active components emitting light,
- detection of dirty transparent elements (shields of the light).

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VDC

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< 2,9 kg  
< 3,2 kg

CE