

# SP-707

## OBSTRUCTION LIGHTING UNIT

MEDIUM INTENSITY

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

- Light intensity 2000 cd, type C (steady operation), type B (flash operation - controller required)
- Lifetime of optical components over 100 000 hours

### Functions

- Day/night detection system, synchronized with twilight sensor
- Lamp with indication of lamp status, indication of optical elements failure
- Lamp with integrated twilight sensor with signalling of lamp status and indication of damage to lamps's optical elements
- By means of dedicated leads, located in a four-way signalling socket (socket B), it is possible to transmit the signal and power from a powered lamp to another lamp with an input connector (socket A). The solution we use allows for chain connections of groups of lamps
- The correct state is indicated by closed contacts, while the emergency state by open contacts

### Power source

- Low power consumption, in flash mode up to 15W (Controller required)
- Low power consumption, in continuous operation up to 25W (switching on by means of controller) or up to 30W (with integrated twilight sensor)
- Integrated overvoltage protection class TII (class C) at 36kA for protection against impacts 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)
- Certificate of compliance with the requirements for medium intensity lamps according to ICAO
- Mechanical shock resistance - at least IK08
- Electromagnetic compatibility certificate (EMC)
- Integrated lamp design (light alloys and composites) with a degree of protection of IP65 or higher

Manufactured by:

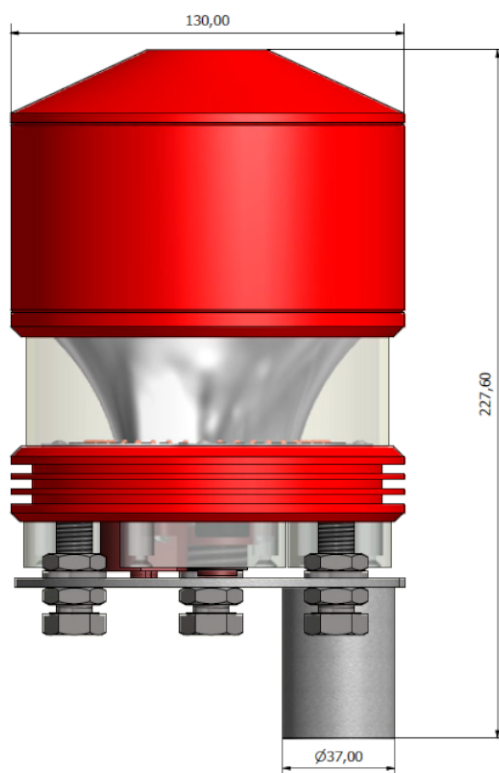
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## Body

- Material: light alloys and composites
- Very low lamp weight not exceeding 2.9 kg
- Enclosure surface protected with antioxidant layers
- Mounting on the object by means of a supporting structure ended with a pipe with a 1 inch thread.  
On request we design and build dedicated support structures according to customer requirements.

## Operation range

Operating temperature: From -55°C to +55°C  
storage temperature: From -65°C to +75°C



## ELECTRICAL PARAMETERS

Series lamp type <b>SP-707</b>	Supply voltage	Supply voltage VAC/VDC			Average level of power consumption [W]	Type according to ICAO
		Min.	Typ.	Max.[V]		
SP-707 switching on by means of controller	24 VAC/VDC	21	24	51	< 25 (+/-2%) < 15 (+/-2%)	C B
	110VAC/VDC	92	230	256	< 25 (+/-2%) < 15 (+/-2%)	C B
	230 VAC/VDC	92	110	256	< 25 (+/-2%) < 15 (+/-2%)	C B
SP-707 with integrated twilight sensor	24 VAC/VDC	21	24	51	< 30 (+/-2%)	C
	110 VAC/VDC	92	230	256	< 30 (+/-2%)	C
	230 VAC/VDC	92	110	256	< 30 (+/-2%)	C

**2000 cd, type C (steady operation), type B (flash operation - controller required)**