

# Low Intensity

## OBSTA HISTI

The OBSTA HISTI is an obstruction light for hazard to low-flying aircraft for airport, building, broadcast transmitting towers, chimneys, bridges and transmission lines. This lamp based on cold neon discharge principle offers high reliability, robustness in hostile environments (EMC, climatic...), proven long life on all kinds of obstacle like transmission lines, TV towers and exposure in electromagnetic fields and high temperature. One unique model will adjust itself to the main supply voltages, continuously from 100 V to 240 Vrms 50/60Hz.



### Application

The OBSTA HISTI is beacon light for obstacles to air traffic (buildings, chimneys stacks, pylons, cranes, etc...). It falls into the ICAO low intensity category, improved (type B).

The principle of cold neon discharge offers :

- inherent generation of the «aviation» red,
- a very long life,
- excellent luminous intensity with a vertical beam much larger than ICAO and FAA requirement,
- and compared to led light, a constant luminous whatever is ambient temperature and EMC.

The OBSTA HISTI draws its power directly from the main supply. The luminous intensity generated by the OBSTA HISTI (35 candelas) is far higher than the minimum the ICAO regulations require, which considerably increases the visibility of the beacon. This value also complies with the FAA L810 standard in force (minimum required : 32,5 candelas).

### Description

The OBSTA HISTI is a one piece moulded assembly which includes a constant-power converter and the proper discharge lamp (13 turns).

This design ensures :

- perfect weatherproofing,
- no requirement for a ground connection, which avoids any voltage return from the earth (for example due to lightning). The overall is thus considerably improved.

The OBSTA HISTI also includes :

- a complete screening of the converter and the lamp to reduce electromagnetic interferences with antennas,
- a clear glass envelope,
- a constant-power converter,
- protection against transient overvoltage,
- circuitry to monitor the operation of the lamp and, in the event of failure, to trigger an alarm or light up an auxiliary lamp (if active redundancy circuits are used).

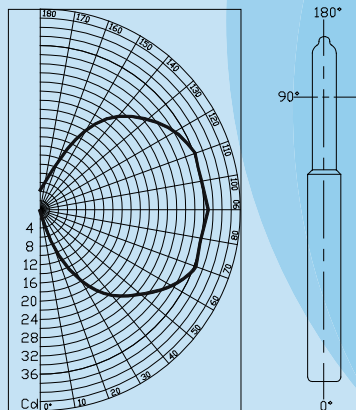
The OBSTA HISTI is easy to install and requires no servicing.

### Main Characteristics

Obsta part number	Power supply	Luminous intensity	Consumed current	Nominal power	Typical lifetime
HISTI ref. 13110	to 110V eff. at 240V 50/60 Hz	> 35 Cd	110V - 730 mA 240V - 370 mA	45W	100 000 h

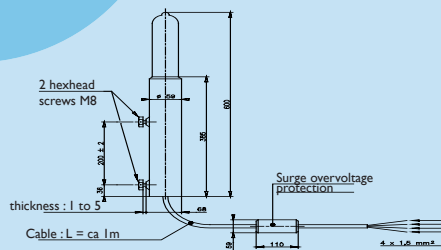
## Complementary Characteristics

### Light intensity diagram



	<b>HISTI</b>
IP degree	66
Operating temperature	-30 to + 60°C
Supply voltage	110 to 240V (+/-10%) 50/60 Hz
Weight	2, 3 kg
Attachment	by 2 screws (tightening thickness : 1 to 5 mm)
Connection	on bare wires (2 power wires, 2 alarm)

### Overall dimensions (in mm)



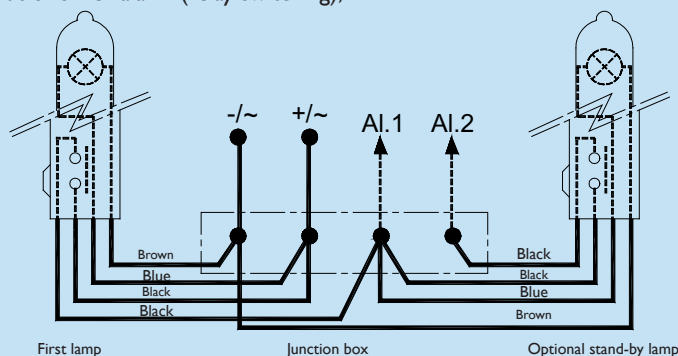
### Specific precaution

For chimney installations, secure the lamp beneath the top (1,5 to 3 meters) in accordance with ICAO's recommendations.

For installation with RFI risk, the power supply cable must be shielded.

### Complementary functions

- out of order alarm (relay switching),



- automatic emergency lamp configuration enabling automatic control of an emergency lamp and/or an alarm in case of a fault with the main lamp (active redundancy),
- control by crepuscular photoelectric cell,
- EMC specification EN 55011 class B.