

Low Intensity

OBSTA HI STIM

The OBSTA HI STIM is designed to replace the old OBSTA HI with transformer. The OBSTA HI STIM can be used for any obstacle. It offers robustness in hostile environments under exposure in electromagnetic fields.



Application

The OBSTA HI STIM is a beacon light for obstacles to air traffic (buildings, chimney stacks, pylons, crane, 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.

The OBSTA HI STIM draws its power directly from the main supply 230VAC 50/60Hz. The luminous intensity generated by the OBSTA HI STIM (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 HI STIM is built in two parts. The main part is a completed molded cylindrical assembly which includes a constant-power converter. The second part is the proper discharge lamp (13 turns) screwed on top of the converter.

This design ensures :

- no external high voltage connections,
- perfect weatherproofing of the 2 parts,
- an isolation from the ground which avoids any voltage return from the earth (for example due to lightning).

The OBSTA HI STIM also includes :

- 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 HI STIM is delivered with 2 fixing collars to be mounted with an adjustable distance for easy installation and does not require any servicing

Main Characteristics

Obsta part number	Power supply	Luminous intensity	Consumed current	Nominal power	Typical lifetime
HISTIM complète - ref. 13150	230 V - 50/60 Hz	> 35 Cd	370 mA @ 240 V	45 W	100 000 h.

Spare-part Obsta HISTIM

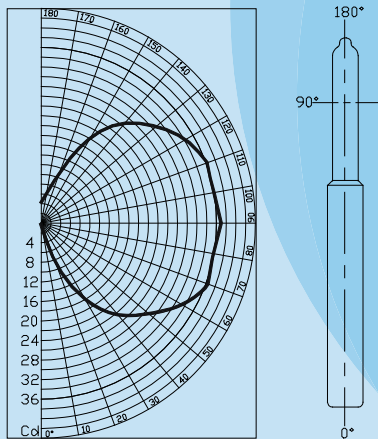
Designation	Code	Number of turns	Luminous intensity	Typical lifetime
Obsta HISTIM 13 turns lamp	13156	13	> 35 Cd	100 000 h.
Converter HISTIM 230 Vac	13155	-	-	100 000 h.

OBSTA CLAUDE neon light for old HI transformer

P/N 00653 (5 turns) and P/N 00654 (13 turns)

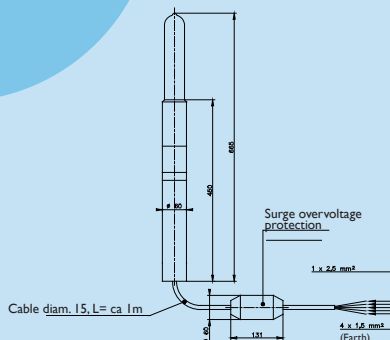
Complementary Characteristics

Light intensity diagram



IP degree	66
Operating temperature	-30° + 60° C
Power voltage	220 -240 V (+/-10%) - 50/60Hz
Weight	3 kg
Attachment	with 2 collars
Raccordement	on bare wires (2 power wires, 2 alarm)
Maintenance	none

Overall dimensions (in mm)



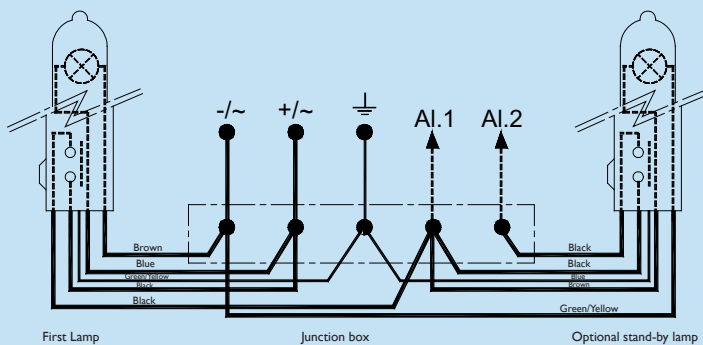
Specific precaution

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

For installations 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 default with the main lamp (active redundancy),

- control by crepuscular photocell,
- EMC specification EN 55011 class B.