L810 Steady Burning Obstruction light
OBSTA HISTI

The OBSTA HISTI is an obstruction light designed to provide a visual warning to low-flying aircraft for obstacles such as airports, buildings, broadcast transmitting towers, chimneys, bridges and transmission lines. The OBSTA HISTI lamp is based on the cold neon discharge principle - this ensures a high reliability and robustness in even the most hostile of environments (EMC, climatic...). This proven technology allows for constant exposure to electromagnetic fields, high temperatures and translates to a much longer life expectancy.

A single model can be used for any 50/60Hz power supply voltage from 100V to 240V rms : FAA advisory circular AC/150/5345-43E, ICAO low intensity type B STAC France.

Application

The OBSTA HISTI is beacon light for obstacles to air traffic (buildings, chimneys stacks, pylons, cranes, etc...). It falls under the FAA L-810 and ICAO low intensity type B light classifications.

The principle of cold neon discharge technology offers :
- inherent generation of the «aviation» red light,
- long life expectancy,
- excellent luminous intensity with a vertical beam much larger than ICAO and FAA requirement,
- compared to Light Emitting Diode (LED) technology, the light is a constant luminous intensity regardless of the ambient temperature and/or EMC.

The OBSTA HISTI draws its power directly from the main power supply. The luminous intensity generated by the OBSTA HISTI (35 candelas) is far greater than the mandated requirements of FAA and ICAO regulations which considerably increases the visibility of the beacon.

Description

The OBSTA HISTI is a one piece molded assembly which includes a constant-power converter and the proper discharge lamp (13 turns).
This design ensures :
- perfect weatherproofing,
- no ground connection required - avoids any voltage return from the earth (for example due to lightning). The overall system's reliability is thus considerably improved.

The OBSTA HISTI also includes :
- complete screening of the converter and the lamp to reduce electromagnetic interferences wiht antennas,
- clear glass light housing,
- 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. 13115	to 110V eff. at 240V 50/60 Hz	> 35 Cd	110V - 730 mA 240V - 370 mA	45 W	100 000 h

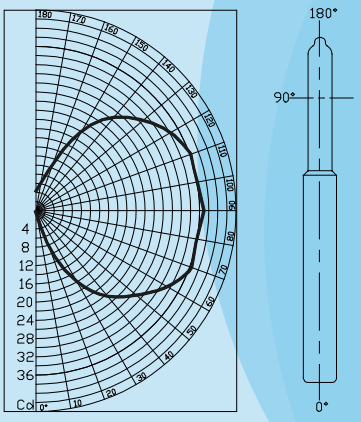
OBSTA

enia
energy networks & industrial applications

6 Pagaiou Str., Nea Filothei
Athens, Greece, GR- 15123
Tel: +30 210 6754801, Fax: +30 210 6754804
info@enia.gr
www.enia.gr

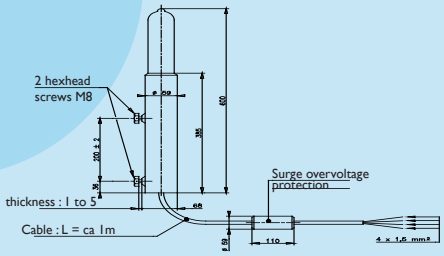
Complimentary Characteristics

Light intensity diagram



	HISTI
IP degree	66
Operating temperature	-55°C 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)

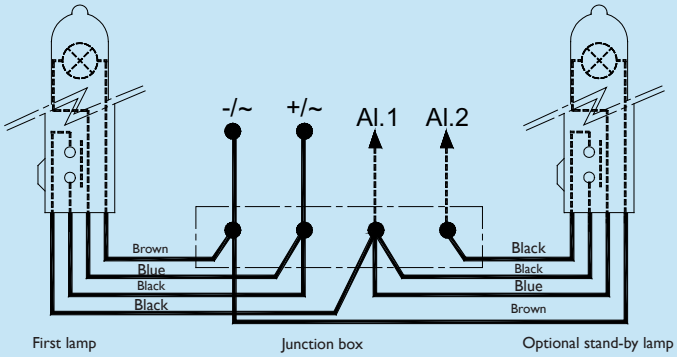


Specific precaution

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.

OBSTA