

# HV LINE CABLE SIGNALLING CONDUCTOR MARKING LIGHT

TYPE A (10 CD STEADY BURN) OR TYPE B (32 CD STEADY BURN)



RESISTANCE TEST TO  
LIGHTNING STRIKES

## 01. DESCRIPTION

The **LEDEO BHT** is a one assembly low intensity light dedicated to the beaconing of high voltage lines. It operates with a current transformer that uses the electro-magnetic field of the line to power up the LEDs. It is an autonomous and long lifetime system (100,000 hours), which design has been proven worldwide. With only one reference serving all the power line capacities, its compact design and light weight allow the quickest and easiest installation on the market.

## 02. ADVANTAGES

- Self-powered and autonomous system
- Proven design in operation worldwide
- Self-centered on the conductor cable thanks to a specific nut
- Product completely filled with resin to avoid vibration issues on the electronics
- Only 1 reference for all power line voltage capacities
- Operation up to 3000 A of line current
- Installation time reduced
- No maintenance required
- 2-year warranty

## 03. APPLICATIONS

The **LEDEO BHT** complies with the ICAO regulations as it is power supplied by the magnetic field around the cable of the high voltage line. The light can be used for beaconing high voltage lines up to 500kV. The installation specifications for high voltage overhead cables are mainly dealing with the intervals between two beacons:

- 70 meters for sensitive specification location in the vicinity of an airport
- 105 meters for other locations

Moreover, the light must be installed at more than 10 meters from the closest supporting tower.

## 04. MODELS

### LIGHTS

REFERENCE	SIGNAL	VOLTAGE
LBIA00HT-II	Red only	1kV to 500kV
LBIB00HT-II	Red only	1kV to 500kV
LBIAIR00HT-II	Red + IR	1kV to 500kV
LBIBIR00HT-II	Red + IR	1kV to 500kV

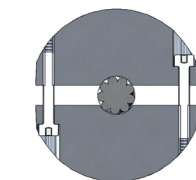
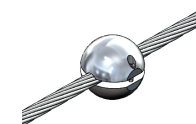
### FIXATION NUTS

REFERENCE	DESCRIPTION
BHT-NX-14/21	Set of 2 nuts for cable diam. 14 to 21mm
BHT-NX-22/29	Set of 2 nuts for cable diam. 22 to 29mm
BHT-NX-30/36	Set of 2 nuts for cable diam. 30 to 36mm
BHT-NX-37/40	Set of 2 nuts for cable diam. 37 to 40mm

## 05. CHARACTERISTICS

	TYPE A	TYPE B	
LUMINOUS			
Luminous source	Red LEDs (standard) + IR LEDs (in option)		
Horizontal / Vertical beam	360° / 10°		
Luminous intensity (standard)	> 10 cd	> 32 cd	
Luminous Intensity (IR)	>=3 mW/sr min between +5° / +90°		
	>=25 mW/sr min between 0° / +5°		
Wave length infra-red LEDs	860 nm		
MTBF	100,000 hours		
ELECTRICAL			
Voltage	1kV to 500kV		
Operating temperature	-55°C to +55°C		
Min Power Line Current	20A		
Max. Power Line Current	3000A		
MECHANICAL			
Body material	ABS		
Lens material	Polycarbonate		
Mounting	Fixation nuts (aluminum)		
Height / Width	380mm / 215mm		
Weight	< 6 kg		
ENVIRONMENTAL			
Humidity	100%		
Frost	-60°C		
Wind speed	240 km/h		
Protection class	IP66		
CERTIFICATIONS			
CE	EN60947-1 ; CEI60364, NF C15-100 2014 / 35 / UE		
ICAO	Annex 14, Volume I, Chapter 6		
Quality	ISO 9001 : 2015		
WARRANTY			
Warranty period	2 years		

## INSTALLATION



## DIMENSIONS

