



Description:

BZ03 Conductor marking lights are a particular type of aircraft warning lights designed for overhead power lines. They are visible at night, unlike overhead wire markers which rely on daylight.

BZ03 Conductor marking lights increase night conspicuity of transmission line catenary wires near airports, heliports, across rivers. Lamps mark and light overhead power lines support structures (towers) as well as high voltage transmission line catenary wires. It is one assembly light with multi-LEDS technology. Dedicated to the beaconing of high voltage lines, it is a long life system (100,000 hours). Its compact design and light weight allow the quickest and easiest installation on the market.

Features:

- LED light source adopts CREE lamp beads, which has high luminous efficiency, long life and low energy consumption.
- The lampshade adopts imported anti-UV PC material, which is resistant to high temperature, impact and environmental applicability.
- The frame of the clamp is made of 304 stainless steel. The wire is made of aluminum alloy and the interface is corrugated to prevent pinching of the high voltage wire.
- The lamp body is designed separately from the mounting bracket, and the installation operation is simple and convenient. Maintenance free.
- Suitable for high-voltage wire diameter range, from 15mm-40mm in diameter.

Working Principal:

Farady's Law of induction involving Magnetic Flux flowing through a circuit which powers the warning light.

Inductive magnetic device:

The Warning light is powered by the magnetic field surrounding the power distribution wire and uses an electronic circuit integrated in a compact clamp-on warning light. The operating principle is that of a Rogowski coil, similar to a current transformer. This solution is usually intended for medium and high voltage lines up to 500 KV. However inductive coupling devices are able to work on any AC at 50 Hz or 60 Hz, from 50A up to 2000 Amps.

Advantages:

- Multi-LEDs
- Compact design
- Corona Extinction
- Internal Photo sensor
- Easy way for mounting
- Natural stability based on specific nut
- Easy way for bulb replacement
- Light weight
- No maintenance
- 3 years warranty
- Product completely filled with high voltage resin to avoid vibration effects
- Only 1 reference for all line voltage

Specifications:

LUMINOUS	
Intensity(cd)	32.5cd
Luminous Source	LED
Type of Obstruction Light	Low Intensity, Type B
Color	Red
Horizontal Beam	360°
Vertical Beam	10°
Lifespan	100,000 hours
MECHANICAL	
Body Material	Stainless steel + aluminum alloy + PC
Lens Material	Polycarbonate
Mounting	Anti-rotation nut
Height	330mm
Width	161mm
Length	180mm
ELECTRICAL	
Voltage Lines	1V to 500kV
Compatible Conductor Diameter	15mm to 40mm
Functioning Temperature	-55°C to + 55°C
HV Current	50A-2000A
Operating Line Frequency	50Hz/60Hz
Photocell Activation	50Lux
Power Consumption	< 5W

PHOTOMETRIC STANDARD COMPLIANCE	
ICAO	ANNEX 14, Volume I, Chap.6
ICAO TYPE B	Low intensity obstacle light
FAA	AC 150/5345-43
FAA Type L-810	Low intensity obstacle light
Quality	ISO9001;2015
ENVIRONMENTAL	
Humidity	100%
Frost	-60°C
Wind Speed	240Km/h
Warranty	3 years
Application	<ul style="list-style-type: none"> • Transmission Line • Overhead Power Line • Low, medium and high voltage lines

STRUCTURE

