

AIRCRAFT WARNING LIGHT FOR
OVERHEAD POWER TRANSMISSION LINES

CONDUCTOR LED MARKING LIGHT



KEY FEATURES



Inductive Power Harvesting:

Utilizes a mechanism similar to a Rogowski coil/current transformer, powered by induced currents from the high-voltage conductor (50A up to 2000A).



ICAO/FAA Compliance:

Conforms to ICAO (Annex 14, Type B) and FAA requirements for light output, emitting red light with an intensity of ≥ 32.5 candela.



High Durability:

Features a stainless steel frame and die-cast aluminum body with high corrosion resistance. The interior is filled with high-voltage resin to resist vibration, while the exterior has a UV-protected polycarbonate lens.



Maintenance-Free:

Designed for a long life of up to 100,000 hours.



Integrated Photocell:

Automatically switches between day and night working modes (dusk-to-dawn).



Wide Operating Temperature:

-40°C to $+55^{\circ}\text{C}$.



Installation:

Suitable for wire diameters ranging from 15mm to 40mm.



AIRPORTS



HELIPORTS



POWER LINES



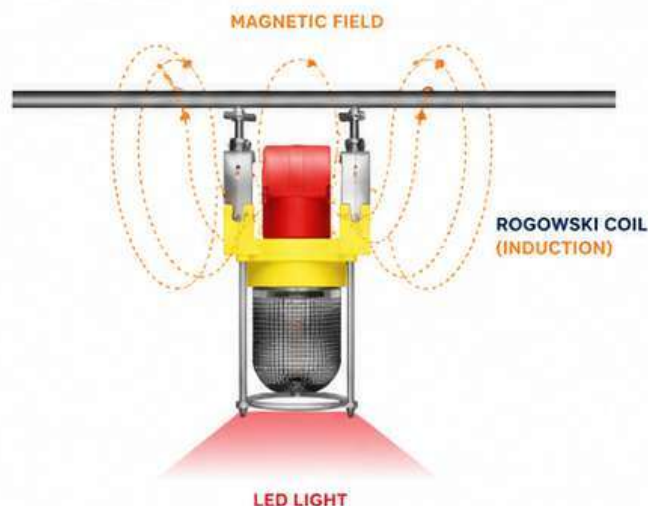
RIVER CROSSINGS

TECHNICAL SPECIFICATIONS

	Light Source	High-efficiency LED
	Visibility	360° horizontal coverage
	Voltage Range	Suitable for lines up to 500kV
	Minimum Current	Operates on lines with $>30\text{A}$ (some models $\geq 15\text{A}$ or $\geq 20\text{A}$)
	Color	Red
	Light Intensity	≥ 32.5 cd (Type B)
	Ingress Protection	IP66
	Operating Temperature	-40°C to $+55^{\circ}\text{C}$
	Service Life	Up to 100,000 hours
	Wire Diameter	15mm to 40mm
	Warranty	5 years

WORKING PRINCIPLE

The BZ03 uses Faraday's Law of induction. A magnetic field surrounds the power distribution wire, and the clamp-on warning light contains an electronic circuit (Rogowski coil) that converts this magnetic flux into electricity to power the LED assembly.



SAFE SKIES.
VISIBLE NIGHTS.

CONDUCTOR LED MARKING LIGHT

Enhancing visibility. Preventing collisions.



ICAO
Type B



IP66
Protection



360°
Visibility



100,000
Hours Life

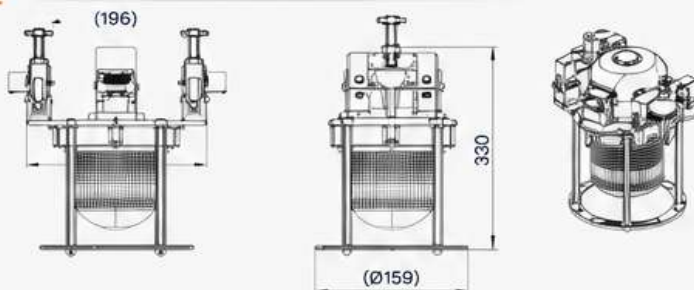


TECHNICAL SPECIFICATIONS

	Item	Specification
LUMINOUS	Intensity(cd)	>32.5
	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
	Dimension(mm)	330(H) X 161(W) X 180(L)
	Weight(kg)	4.5kg
ELECTRICAL	Voltage Lines	1V to 500kV
	Compatible Conductor Diameter	15mm to 40mm
	Functioning Temperature	-20°C to +55°C
	IP rate	IP66
	HV Current	50A – 2000A
	Operating Line Frequency	50Hz/60Hz
	Photocell Activation	50Lux
	Power Consumption	<5W

	Item	Specification
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
ENVIRONMENTAL	Humidity	100%
	Frost	-60°C
	Wind Speed	240Km/h
	Warranty	5 years
APPLICATION	Transmission Line Overhead Power Line Low, medium and high voltage lines	

STRUCTURE



APPLICATIONS



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ISO 9001:2015
QMS



ISO 45001:2018
HSE