

Low Intensity

BALISORS



Application

High-voltage lines are major hazard for low-flying aircraft. Placing beacons on pylons is not sufficient to ensure safety due to the very long spans of cable (extract of Aerodrom Design Manual chapter 14.7 annex 4).

The BALISOR® system (created by OBSTA in the 60th) is a beacon for high voltage lines. Its conductors take the power required directly from the line.

The system is, therefore, completely self-contained.

Our standard model of BALISOR® fall into the ICAO low intensity category. It is a red fixed light with a luminous intensity higher than 10 candelas.

The neon discharge offers :

- inherent generation of the «aviation» red light,
- a very long life - essential to allow continuing operation of high-voltage lines. Many BALISORS installed over those last 30 years are still working.

Description

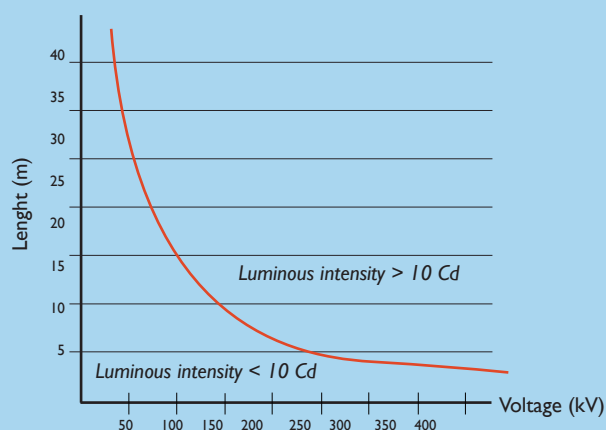
The BALISOR® system comprises :

- a cold neon discharge lamp manufactured by OBSTA,
- a set of capacitive tapings in aluminium which depends on the voltage of the line to be protected,
- a set of flexible accessories for suspension and insulation which depends on diameter of the cable

Options :

- antipollution version with silicone insulators for polluted area (near oil refinery, chemical industry...).

Lenght of the auxiliary tubing according to the voltage

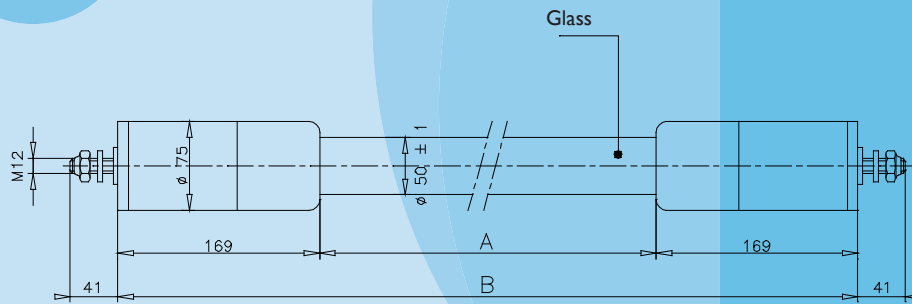


Main Characteristics

OBSTA part number	Luminous intensity	Voltage of the line	Interference suppression	Typical lifetime
Lamp BALISOR ref. 00616 B33	> 10 Cd	-	yes	> 100 000 h.
Lamp BALISOR ref. 00618 B49	> 10 Cd	60 kV à 550 kV	yes	> 100 000 h.

Complementary Characteristics

Lamp weight and dimensions (in mm)



Type	A	B	Weight
Lamp type B	563 +/- 5	901 +/-5	4,7 kg
Lamp type B33	376 +/- 5	714 +/-5	4 kg

Unit weight	Code	Designation	Number of elements depending on line voltage			
			115 kV	132 kV	220 kV	380 kV and +
0,85 kg	00637	Clamp	7	6	4	3
3,50 kg	00621	Insulator	7	6	4	3
0,10 kg	00636	Shunt braid	1	1	1	1
0,50 kg	00628	Simplified auxiliary holder	7	6	-	-
2,00 kg	00631	Lamp holder	-	-	2	2
1,35 kg	00632	Auxiliary tubing holder	-	-	2	1
1,90 kg	00623	Auxiliary tubing	5	4	2	1
0,50 kg	00606	Flexible connector	2	2	-	-
0,50 kg	00624	Lamp end suspender	2	2	-	-
4,70 kg	00618	BALISOR B lamp	1	1	1	1
4,00 kg	00616	BALISOR B33	-	-	-	-