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TECHNICAL DATASHEET · OBSTRUCTION LIGHTING · LOW INTENSITY

Pulsar Type B Double Obstruction Light

EcoSolaris code **ECO-AL-388** | Ordering code **AL-OBS-16-XXX** | **Made in Romania** Manufactured in the EU



Red LED low intensity obstruction light (Type B Double) for marking aerial obstacles such as towers, buildings and antennas. It provides at least 32 cd over 360°, draws only 2.5 W and has an estimated lifetime of 100,000 hours. Its two LEDs allow redundancy, with alarm and automatic switchover versions.

ORDERING CODE	LIGHT INTENSITY
AL-OBS-16-XXX	**≥32 cd (ICAO Annex 14, Table 6-3)**
COLOUR / SIGNAL	HORIZONTAL OUTPUT
red, fixed (steady) light	**360°**

Price on request | EcoSolaris technical support · Dubai

Technical specifications

Ordering code	AL-OBS-16-XXX
Type	low intensity obstruction light, Type B Double
Light intensity	≥32 cd (ICAO Annex 14, Table 6-3)
Measured minimum intensity at 0°/6°/10°/20°/30°/40°/50°	29.20 / 71.70 / 70.70 / 34.50 / 7.30 / 6.70 / 11.90 cd
Colour / signal	red, fixed (steady) light
Horizontal output	360°
Light source	2 high-power LEDs with dedicated optical lenses
Estimated lifetime	100,000 hours
Power consumption	2.5 W
Power supply	100–230 V AC; 48 V DC; 24 V DC; 12 V DC; 700 mA constant current
Electrical insulation class	I
Degree of protection	IP67
Operating temperature	-55 °C to +55 °C
Dimensions	130 x 97 mm, total height 177 mm
Weight	1.2 kg
Mounting	on Ø30–Ø80 mm pole or vertical flat surface
Wiring (double with alarm)	700 mA: 3-core; 12/24/48 V DC: 4-core; 230 V AC: 5-core (L, N, PE, NO/NC, COM)

Features

- High-power LED technology, 100,000 hours estimated lifetime
- Stable light, unaffected by voltage variations
- Low consumption: 2.5 W
- Extruded aluminium housing for proper thermal management
- Anti-condensation valve, IP67
- Low voltage power supply available (12/24/48 V DC)
- Two LEDs for redundancy; versions with alarm and automatic switchover

Standards and compliance

- ICAO Annex 14, Vol. I – Aerodrome Design and Operations, Chapter 6, Table 6-3
- Chromaticity: ICAO Annex 14 Vol. I, fig. A1-1b (solid state aeronautical ground lights)
- Romanian Civil Aeronautical Authority: No. 12408 of 30.05.2008

Materials and construction

- Housing: powder-coated extruded aluminium, RAL 1004 (aviation yellow)
- Diffuser: hardened glass (polycarbonate version available)
- Cable gland: nickel-plated brass
- Fasteners: stainless steel

Configuration options

- Power supply: 700 mA, 12, 24 or 48 V DC, 100–230 V AC, 50/60 Hz
- LED power: two independent sources or one single source for both LEDs
- LED type: red, white + IR or IR (infrared optional)
- Cable gland: chrome-plated, stainless steel or plastic
- 2 m cable
- Fastening system
- Redundancy: V1 without automatic switchover (AL-OBS-16-XXX V1); internal alarm and redundancy module (AL-OBS-16-XXX + AL-158-AX); external module AL-OBS-08-XXX-FT-AT (700 mA versions)

Ordering code structure

AL - OBS - XX - XXX

AL	Series indicator: Airfield Lighting
OBS	Category: obstruction lighting
05	Low intensity Type A Single
06	Low intensity Type A Double
07	Low intensity Type B Single
16	Low intensity Type B Double
230	Power supply 100–230 VAC
048	Power supply 48 VDC
024	Power supply 24 VDC
012	Power supply 12 VDC
700	Power supply 700 mA constant current
IR	Infrared (optional)

Compatible accessories

AL-OBS-01-AX	2 m cable
AL-OBS-02-AX	Fastening system
AL-OBS-10-XXX	Internal twilight sensor
AL-OBS-09-048	External twilight switch
AL-OBS-08-XXX	Basic controller, alarm and redundancy device (48 V DC or 230 V AC)
AL-OBS-08-XXX-FT-AT	Advanced controller, alarm and redundancy device (with twilight switch and overload protection)
AL-OBS-11-AX	Solar panel power supply
AL-158-AX	Internal alarm and redundancy module

Applications

Telecom towers and antennas · **High-rise buildings** · **Chimneys and industrial structures** · **Cranes, masts and other aerial obstacles**

Information document. Specifications may change without prior notice. Images are for illustration only.