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TECHNICAL DATASHEET · HELIPORT LIGHTING · INSET LIGHT · WHITE

Inset Alignment Heliport Light

EcoSolaris code **ECO-AL-3930** | Ordering code **AL-089-03-WH** | **Made in Romania** Manufactured in the EU



Recessed LED light providing precise directional guidance for helicopter approach and departure paths. It is installed flush with the surface, lightweight and low-energy.

ORDERING CODE **AL-089-03-WH**	APPLICATION **flight path alignment guidance lights**
LIGHT COLOUR **white**	POWER CONSUMPTION **6 W**

Price on request | **EcoSolaris technical support · Dubai**

Technical specifications

Ordering code	AL-089-03-WH
Application	flight path alignment guidance lights
Light colour	white
Power consumption	6 W
48 VDC supply	from controller, dimmable 100%, 30%, 10%
Mains supply	90–230 V, 50/60 Hz, non-dimmable
Constant-current supply	1.4 A CC, dimmable 100%, 30%, 10% (internal bypass + SPD)
Horizontal output	360°
Photometry	per ICAO Annex 14, Vol. II, fig. 5-11/6
Diameter	153 mm
Total height	80 mm
Weight	1.5 kg
Degree of protection	IPX8
Operating temperature	-55 °C to +55 °C
Estimated LED lifetime	100,000 h
Electrical connection	pre-cabled with 0.5 m cable + IP68 junction box AL-107-AX

Features

- Inset, flush-mounted – no obstacles on the deck
- High-power LEDs with an estimated lifetime of 100,000 hours
- Three intensity steps (100%, 30%, 10%) at 48 VDC or 1.4 A CC
- Designed for simplicity and ease of maintenance
- Lightweight, low-energy and environmentally friendly fitting
- Aluminium alloys reduce weight and ease handling in the field

Standards and compliance

- ICAO Annex 14, Volume I – Aerodromes (design and operations)
- ICAO Annex 14, Volume II – Heliports
- IEC TS 61827 – Electrical installations for lighting and beaconing of aerodromes; characteristics of inset and elevated luminaires used on aerodromes and heliports
- Salt mist tested (Ka test)
- Chromaticity within the range required by ICAO Annex 14, Vol. I, fig. A1-1-1b

Materials and construction

- Housing in powder-coated aluminium, RAL 1004 (aviation yellow)
- Clear polycarbonate disperser
- Disperser flange – nickel-plated ring
- Nickel-plated brass cable gland
- Stainless steel fasteners
- Anti-condensation valve

Configuration options

- Power supply: 48 VDC from controller (dimmable 100%, 30%, 10%), 48 VDC non-dimmable, 110–230 VAC 50/60 Hz non-dimmable or 700 mA constant current
- Optional protections: bypass, varistor, reverse-polarity protection, fuse
- Cable length: 0.3 m, 1 m or 2 m
- Cable gland: chrome-plated, stainless steel or plastic
- Cable termination: free wires or EFLA connector
- Φ160 mm shallow base: 135 mm or 100 mm deep, surface-mounted base (75 mm deep) or none
- IP68 junction box: optional
- LED type: white, white + IR or IR (infrared)
- Snow plug protection: optional
- Construction: silicone-encapsulated or non-encapsulated; breather valve optional

Ordering code structure

AL - 089 - 03 - WH

AL	Series indicator (airfield lighting)
089	Product indicator (inset alignment light)
03	Number of LEDs: 3
WH	Light colour: white

Compatible accessories

AL-104-AX	Standard Φ160 mm shallow base
AL-105-AX	Adapter ring for 8” shallow base
AL-106-AX	Φ160 mm surface-mounted base
AL-107-AX	IP68 electrical junction box
AL-108-AX	Φ160 mm shallow base installation jig

Applications

Flight path alignment guidance (approach and departure) · **Ground-level and elevated heliports** · **Hospital and high-rise heliports** · **Industrial and offshore heliports**