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TECHNICAL DATASHEET · AIRPORT LIGHTING · GUIDANCE SYSTEMS · LED BEACON

Identification Beacon – IBN

EcoSolaris code **ECO-AL-4269** | Ordering code **AL-061-84-GR** | **Made in Romania** Manufactured in the EU



The Identification Beacon is a powerful omnidirectional green light that flashes the aerodrome's identification letters in Morse code. The sequence is configured for each aerodrome and generated by a dedicated controller that also provides brightness control.

ORDERING CODE	LEDS
AL-061-84-GR	**84 green (OSRAM)**
INTENSITY	DISTRIBUTION
min 2000 effective cd	**360° horizontal; 0-10° vertical**

Price on request | EcoSolaris technical support · Dubai

Technical specifications

Ordering code	AL-061-84-GR
LEDs	84 green (OSRAM)
Signal	aerodrome identification code in Morse, configurable
Timing example (KLD code)	dash 0.6 s; dot 0.2 s; 0.2 s between signals; 0.6 s between letters; 1.4 s between messages
Intensity	min 2000 effective cd
Distribution	360° horizontal; 0-10° vertical
Intensity levels	100%, 10%, 3% (with controller, 48 V DC)
Average power	depends on the identification code sequence
Peak power	max 150 W including the controller
Connection	3-core cable from controller: V+ (red), V- (black), GND (green/yellow)
Temperature range	-20° to +55°
Degree of protection	IP65
Diameter	220 mm
Total height	174 mm
Weight	2.95 kg
Fastening	on Ø32 mm to Ø80 mm pipe

Features

- Morse identification code configurable for each aerodrome
- 84 high-power OSRAM green LEDs
- 360° omnidirectional light, minimum 2000 effective cd
- Three-step brightness control: 100%, 10%, 3%
- Can also be controlled by the main airport controller
- Lightweight aluminium body (2.95 kg), UV protection, anti-condensation valve

Standards and compliance

- ICAO Annex 14, Volume I – Aerodrome Design and Operations
- IEC TS 61827 – Electrical installations for lighting and beaconing of aerodromes
- Intensity to ICAO Annex 14 Vol. II, fig. 5-11/1
- Colour to ICAO Annex 14 Vol. I, fig. A1-1b (solid-state lighting)
- Ka tested to IEC 60068-2-11 and IEC 60068-2-25

Materials and construction

- Body: powder-coated aluminium, RAL 1004 (aviation yellow)
- Diffuser: clear polycarbonate, UV protected
- Cable gland: nickel-plated brass
- Fasteners: stainless steel
- Anti-condensation valve

Configuration options

- Power supply: 48 V DC from controller, dimmable (100%, 10%, 3%)
- Power supply: 110-230 V AC, 50/60 Hz, non-dimmable
- Cable length: 1 m or 2 m
- Cable gland: chrome-plated, stainless steel or plastic
- Junction box: none, simple terminals, or terminals + varistor + fuse

Ordering code structure

AL - 061 - 84 - GR

AL	Series indicator (airfield lighting)
061	Product indicator – Identification Beacon IBN
84	Number of LEDs
GR	LED colour: green

Applications

Identifying aerodromes from the air by Morse code · **Aerodromes without an aerodrome beacon** · **Civil and military aerodromes used at night** · **Mounting on a mast or building, visible from all directions**