

Runway Lighting

EL-EAH

Bidirectional Medium-/High-Intensity Elevated Light



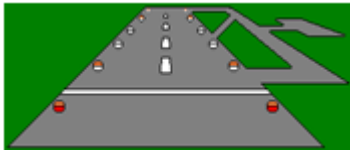
Compliance with Standards

- FAA** L-862, L-861, L-861E, AC150/5345-46D
- ICAO** Annex 14 Volume I Paragraphs 5.3.9, and 5.3.15, for use in CAT I, II and III
- NATO** STANAG 3316
- French STNA**
- CAP 168**
- BS 3224**

Introduction and Uses

EL-EAH is a 12" bidirectional high/medium intensity elevated light used in the following applications:

- Runway Edge (high intensity)
- Runway Threshold (medium intensity)
- Runway End (medium intensity)
- Stopway (high intensity)



Features and Benefits

- Low power consumption: only 150 Watts in CAT III.
- Lamp life greater than 1,000 hours at 6.6 Amps.
- Resistance to jet blast, complying with ICAO requirement (300 mph).
- Frangibility of the fitting complying with FAA standards (350 mph).
- High speed replacement by hinging of the optical head.
- Power supply cable protected by support.
- Smooth glass dome outer surface.
- Easy adjustment by means three Allen screws locking onto the adjustable body.

- Easy maintenance carried out in the workshop by removing the optical head.
- Simple but sturdy design.
- Light weight: less than 2 kg with the lamp.

Technical Characteristics

Component	Description
Lamp	Pre-focused halogen Pk30d socket. The lamp life is greater than 1,000 hours at 6.6 Amps. - 200 W and 150 W for the high intensity runway edge and runway stop way. - 100 W for the medium intensity runway lighting.
Power Supply	By 2 x 2.5 mm ² or 2 x 4 mm ² two pole-cable (maximum outer diameter = 16 mm). Connected by an FAA- type plug (moulded plug or secondary kit to order separately).
Photometr	The distribution and the homogeneity comply with Appendix 2 of ICAO Annex 14 Volume I and FAA L-862 and L-861.
Colors	Each filter covers an azimuth field of 180° One filter or blanking screen can be fitted on each side of the fitting. The chromaticity complies with Appendix 1 of ICAO Annex 14 Volume I.
Finish	The body and the support are made of aluminium alloy casting, phosphate and painted in aviation yellow by an electrostatic process (powder coating). All fixings and fastenings are stainless steel.
Fixing on support	Fixing on support (tripod stand, elbow tube or base plate) is made using the 2" NPS, 2" BSP or 1.5" UNF thread below the frangible part of the fitting.
Adjustment	Horizontal and direction adjustment are obtain using three sets of Allen screws.
Height	290 mm.
Net Weight	Less than 2 kg with the lamp.

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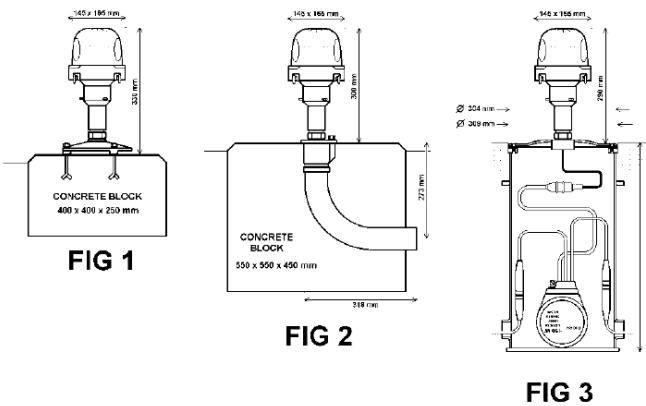
Packing Data			
Designation	Volume (m ³)	Dimensions (mm)	Weight (kg)
Fitting	0.014	210 × 210 × 325	2.3
Pk30d Lamp (× 100)	0.027	520 × 260 × 200	1.8
180° colour filter or blank screen			
Setting tool			
Day marking cone	0.032	410 × 410 × 185	0.5

Installation Options

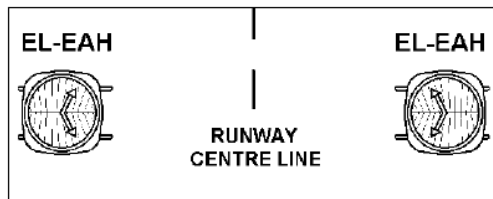
Description

- On a tripod stand, see FIG 1.
- On conduit elbow, see FIG 2.
- On FAA deep can and base plate, see FIG 3.

Image examples



For installation, the top of the Glass Dome includes two arrows which must point towards the runway centre line, as shown below.



Photometrics

This section includes photometric examples of a light configuration.

Photometric examples	
Runway Edge ICAO and FAA L-862 EL-EAH (1 × 150 Watts) White Light Toe-in : 4.5° I average : 12,450 cd I max / I min : 2.38	
Runway Edge ICAO and FAA L-862 EL-EAH (1 × 150 Watts) Yellow Light Toe-in : 4.5° I average : 4,860 cd I max / I min : 2.23	

Design

Components	EL-EAH
1. Dome Made of Prismatic Moulded Glass	
2. Fresnel Lens	
3. Colour Filter or Blank Screen	
4. Pk30d Halogen Lamp	
5. Fixing Plate	
6. Fixture Retaining the Dome	
7. O Ring Gasket	
8. Optical Head Closing Spring	
9. Body Allowing Levelling and Azimuth Setting	
10. Connection Terminal	
11. Frangible Leg Support	
12. Setting Allen Screws and nuts	
13. Two Pole Cables with FAA Secondary Plug	

Order Codes

The table below is a guide to order codes for a fitting with available component parts.

Ordering code	Component
EL-EAH 2 " NPS with connector	SGEEL-EAH.13131
EL-EAH 2 " BSP with connector	SGEEL-EAH.12118
200 W Pk30d Lamp	SG11990
150 W Pk30d Lamp	IDM11989
100 W Pk30d Lamp	SG16188
180° Yellow Coloured Filter	SGE.SP12467
180° Red Coloured Filter	SGE.SP12468
180° Green Coloured Filter	SGE.SP12117
180° Blank screen	SGE.SP12817
Setting tool	SGE.SP12552
Day Marking Cone	SGE.SP14751

Note: All descriptions and photometric characteristics in this publication present only general particulars and shall not form part of any contract. The right is reserved to change them without prior notification