

AIRFIELD LIGHTING

EL-EAH

Bidirectional Medium-/
High-Intensity Elevated Light

Runway Edge – Runway Treshold
Runway End – Stopway

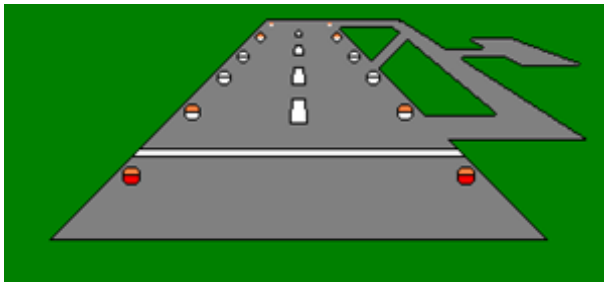


Introduction

EL-EAH is a 12" bidirectional high/medium intensity elevated light.

Utilisation

- Runway Edge (high intensity)
- Runway Threshold (medium intensity)
- Runway End (medium intensity)
- Stop way (high intensity)



Compliance

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

Main Advantages

- 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).
Photometry:	The distribution and the homogeneity comply with Appendix 2 of ICAO Annex 14 Volume I and FAA L-862 and L-861.
Colours:	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.

AIRFIELD LIGHTING

EL-EAH

Technical Characteristics (continued)

Component	Description
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.

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

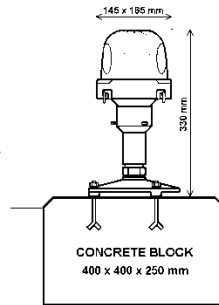


FIG 1

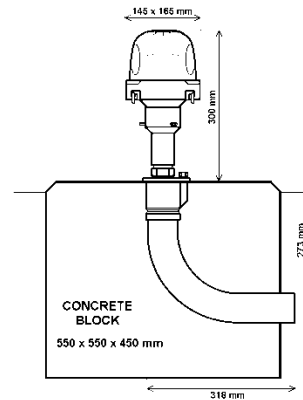


FIG 2

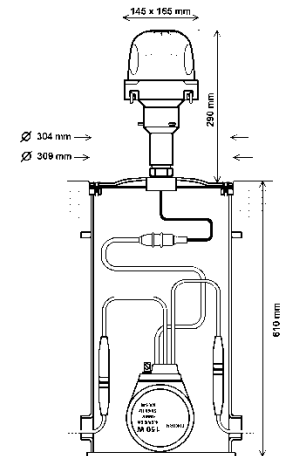
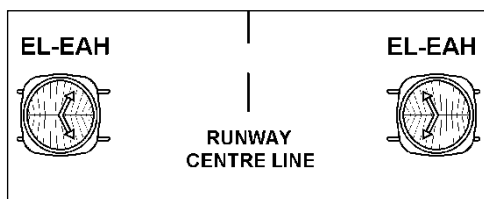


FIG 3

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



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EL-EAH

Photometrics

This section includes photometric examples of a light configuration.

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

Design

Components	EL-EAH
<ol style="list-style-type: none"> 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 	

AIRFIELD LIGHTING

EL-EAH

Order codes

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

Component	Ordering code
EL-EAH 2 " NPS with connector	EL-EAH NPS
EL-EAH 2 " NPS without connector	EL-EAH NPS+CONN
EL-EAH 2 " BSP with connector	EL-EAH BSP
EL-EAH 2 " BSP without connector	EL-EAH BSP+CONN
EL-EAH 1.5 " UNF with connector.	EL-EAH UNF
EL-EAH 1.5 " UNF without connector	EL-EAH UNF+CONN
200 W Pk30d Lamp	Pk30d / 200 W
150 W Pk30d Lamp	Pk30d / 150 W
100 W Pk30d Lamp	Pk30d / 100 W
180° Yellow Coloured Filter	EL-EAH/FILTER/Y
180° Red Coloured Filter	EL-EAH/FILTER/R
180° Green Coloured Filter	EL-EAH/FILTER/G
180° Blank screen	EL-EAH/BLANK_SCREEN
FITTING SUPPORTS	See www.safegate.com
SETTING TOOL	EL-EAM/SETTING TOOL
DAY MARKING CONE	EL-EAM/DAY_MARKING_CONE

Specification

- The runway edge elevated light shall be bi-directional high intensity complying with ICAO recommendations in Annex 14, Volume I, paragraphs 5.3.9, 5.3.15, with FAA L-862, L-861 and L-861E AC 150/5345-46B, with STNA, STANAG 3316, CAP 168 and BS 3224 part 4 standards.
- It shall be fitted with one 6.6 Amps halogen pre-focused Pk30d lamp not exceeding 200 Watts, whatever the application. Lamp life shall be greater than 1,000 hours at full intensity.
- The glass dome shall be made of prismatic moulded glass, resistant against thermal shock. Its outer surface shall be smooth to minimise the adhesion of dirt.
- To ensure its water tightness the fitting is to be equipped with an O ring Gasket.
- The overall height shall not exceed 290 mm.
- The body and the support shall be made of aluminium alloy casting phosphate and painted in aviation yellow by an electrostatic process (powder coated). All fixings and fastenings shall be stainless steel.
- Its design shall allow installation onto a support equipped with 2"NPS, 2" BSP or 1.5" UNF thread.
- The power cable shall be protected by running through the support.
- The fitting weight shall not exceed 2 kg with the lamp.
- The azimuth / site adjustment shall be made by using a setting tool with level and sighting telescope.
- The azimuth and site adjustments shall be locked by three Allen screws.
- Maintenance on site shall be high-speed with replacement of the lamp possible by unclipping the optical support.

Product specifications may be subject to change, and specifications listed here are not binding.
Confirm current specifications at time of order.