Airfield Lighting

Product Description

8" Bidirectional High-Intensity Inset Light (INL-RC)

- Runway Centre Line

SAFEGATE GROUP

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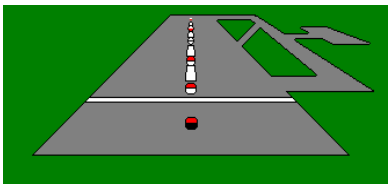
1. INTRODUCTION

INL-RC is a 8” bidirectional high intensity inset light.



Utilisation

- Runway Centre Line

Compliance

- ICAO: Annex 14 Volume I Paragraphs 5.3.12 for use in CAT I, II and III.
- FAA: L- 850A, AC150/5345-46D
- NATO: STANAG 3316
- French STNA
- CAP 168
- BS 3224

2. MAIN ADVANTAGES

- Low power consumption: only 45 Watts in CAT II when the centre line is only in the direction of travel, otherwise 2 x 45 Watts.
- Lamp life greater than 1,500 hours for 45 W at 6.6 Amps.
- Low projection: 12.7 mm (1/2").
- Small diameter: 203 mm (8").
- Shallow depth: installation in 100 mm shallow base (shallow cover version).
- Excellent photometric performances obtained by the use of reflector lamp:

  - Improved luminous efficacy.

  - Identical lamp performance: Reflector being an integral part of the lamp, hence each time the lamp is changed there will be a new reflector,

  - High optical stability: no internal adjustment needed since the pre-focused lamp is always correctly positioned inside the lamp reflector,
- Very easy and high-speed maintenance: small quantity of components so lights can be easily dismantled.
- Non-sealed prism easy to replace.
- Valve for water-tightness test.
- Many parts common with other lights in the same model range.
- Easy handling and transport due to small size and low weight.

3. TECHNICAL CHARACTERISTICS

Component	Description
Lamp:	45 Watts 6.6 Amps pre-focused halogen lamp with an integral dichroic-coated reflector. Lamp life at 6.6 Amps greater than 1,500 hours.
Power Supply:	The fitting is delivered equipped of one (or two) two-pole secondary FAA plug(s) to connect it to one (or two) an isolating transformer(s).
Photometry:	Distribution and homogeneity comply with Appendix 2 of I.C.A.O Annex 14 Volume I and with FAA L-850A.
Colour:	Red dichroic filter. Chromaticity complies with Appendix 1 of ICAO Annex 14. Volume I.
Finish:	All external parts are made of anodised tempered aluminium alloy casting. All fixings and fastenings are stainless steel.
Fixing on support:	By two M10 studs and nuts (supplied with the base or the adapter ring).
Projection:	12.7 mm (1/2”).
External diameter:	203 mm (8").
Net Weight:	2.8 kg.

Packing Data			
Designation	Volume m^3	Dimensions mm	Weight kg
INL-RG Fitting with short cover	0,007	220 x 220 x 145	2.9
ILP-T Fitting with long cover	0,007	220 x 220 x 145	3.0

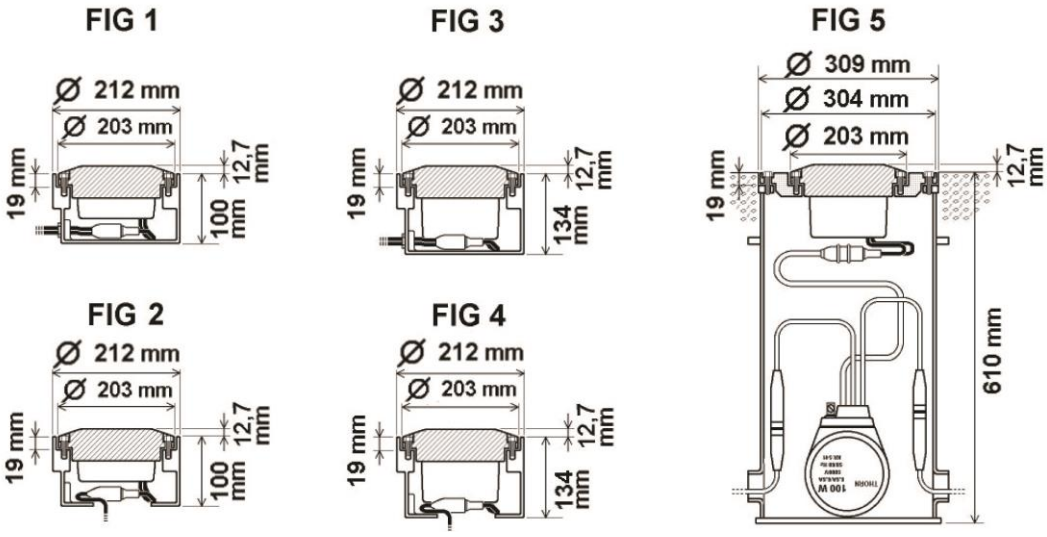
4. INSTALLATION OPTIONS

Description

- On 8" shallow base 100 mm deep with side access (see FIG 1) or with bottom access (see FIG 2). Shallow Cover.
- On 8" shallow base 134 mm deep with side access (see FIG 3) or with bottom access (see FIG 4). Long Cover.
- On FAA L-868B deep base by means of 12"/ 8" adapter ring (see FIG 5).
- On SR8 seating ring by means of SR8/8" adapter ring.

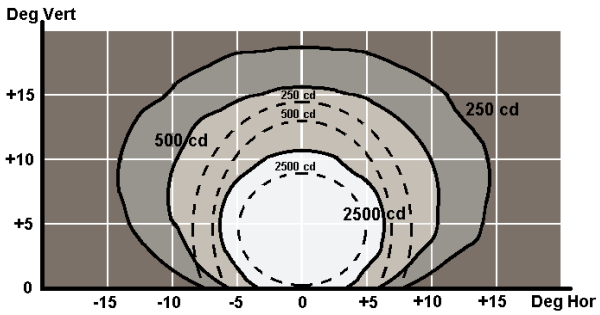
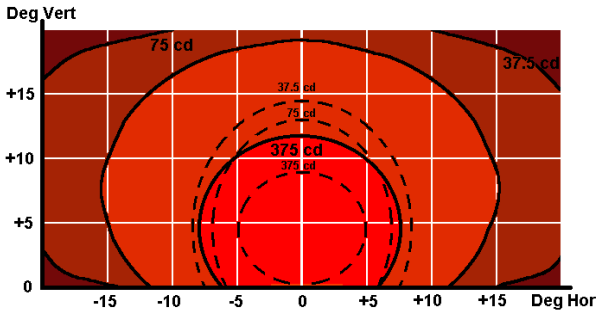
***Note**: When the fitting is equipped with a cut-out device (relay or film disk), a long cover must be used and the minimum depth of the base must be 134 mm.*
For more information, see the Design section.

Image examples

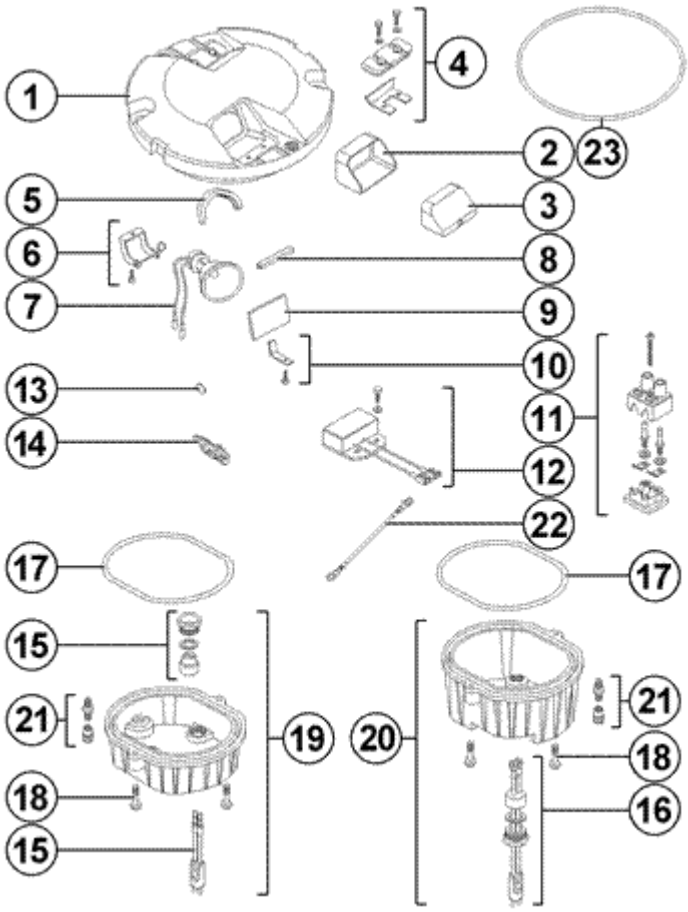


5. PHOTOMETRICS

This section includes photometric examples of different light configurations.

Photometric examples	
Runway Centre Line ICAO and FAA L-850A INL-RC (1 x 45 Watts) White Light I average : 5,850 cd I max / I min : 2.25	
Runway Centre Line ICAO and FAA L-850A INL-RC (1 x 45 Watts) Red Light I average : 1,380 cd I max / I min : 1.90	

6. DESIGN

Components	INL-RC
1. Body 2. Silicone prism gasket 3. Non-sealed prism 4. Prism clamp with accessories 5. Lamp support 6. Lamp fixing spring and its screw 7. Pre-focused halogen dichroic reflector lamp 45 Watts at 6.6 Amps Diameter 50 mm 8. Filter protection gasket 9. Filter 10. Filter fixing spring its screw 11. Cable terminal 12. Cut out relay (*) 13. Film disk cut out (*) 14. Film disk cut out holder (*) 15. Cable subassembly for short cover 16. Cable subassembly for long cover 17. Cover gasket 18. Cover screw 19. Equipped short cover 20. Equipped long cover (*) 21. Valve for water tightness tests 22. Cable for connection between terminals 23. O ring gasket for THORN 8" shallow base.	

***Note**: The complete fitting is delivered with water tightness O ring gasket for a THORN AFL 8" shallow base.*

8. ORDER CODES

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

Description	Components	INL-RC	2C	W/R	SC	FD
Connection *to isolating transformer(s)*						
To one transformer	**1C**					
To two transformers	**2C**					
Colour						
White (None)	**W**					
Red filter	**R**					
Blank screen	**B**					
Cover size						
Short Cover	**SC**					
Long Cover	**LC**					
Cut out device (option)						
Two cut out relay	**RL**					
Two film disk cut out	**FD**					
Additional						
8" shallow base and Adapter ring						
For more information, contact Safegate Group or see www.safegate.com.						

9. SPECIFICATION

- The runway centre line inset light shall be bi-directional high intensity complying with ICAO recommendations in Annex 14, Volume I, paragraph 5.3.12, with FAA L-850A standards, and STANAG 3316 standards, CAP168 and British Standards BS 3224.
- It shall be fitted with one or two 6.6 Amps halogen pre-focused dichroic reflector lamps not exceeding 45 Watts. Lamp life shall be at full intensity greater than 1,500 hours for 45 W.
- Its design shall allow separate lighting in both approach direction.
- All external parts shall be made of anodised tempered aluminium alloy casting. All fixings and fastenings shall be stainless steel.
- It shall have a maximum outer diameter of 203 mm (8”) and its projection shall not exceed 12.7 mm (1/2”).
- It must be able to be installed directly on an 8" shallow base, or by means of adapter on a FAA L-868B deep base or a seating ring.
- It will be design to allow easy maintenance.
- The prisms shall not be sealed.
- The filters shall be dichroic.
- The fittings in this model range share many of the same components.
- No internal adjustment shall be needed.
- The weight of the fitting shall be lower than 2.8 kg.

***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.*

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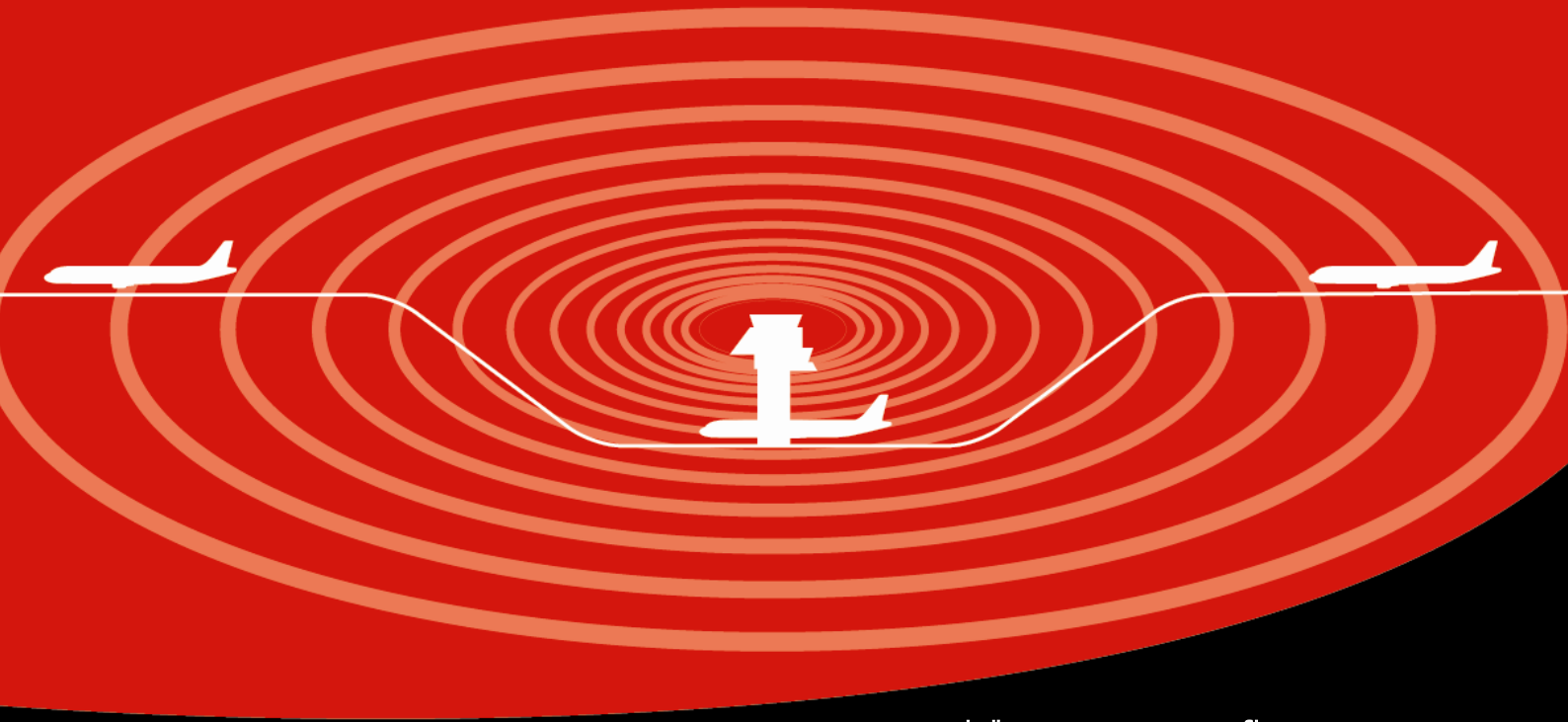

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