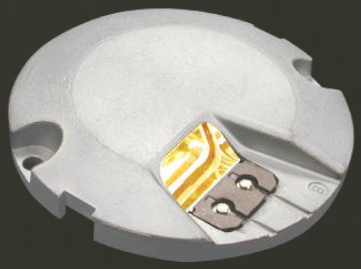
Airfield Lighting

Product Description

8" Unidirectional High-Intensity Inset Light (INL-RG)

- Runway Guard Light
- L-852S Stop Bar



THORN Airfield Lighting IDMAN

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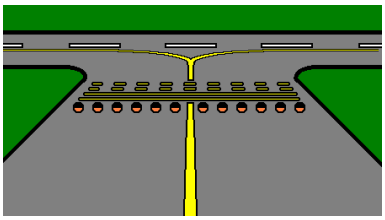
1. INTRODUCTION

INL-RG is a 8” unidirectional high/ intensity inset light.



Utilisation

- Runway Guard Light
- L-852S Stopbar

Compliance

- ICAO: Annex 14 Volume I Paragraphs 5.3.19 and 5.3.22
- FAA: L- 852G and L-852S, AC150/5345-46D
- French STNA
- CAP 168
- BS 3224

2. MAIN ADVANTAGES

- Low power consumption: 105 Watt
- Lamp life greater than 1,000 hours at 6.6 Amps.
- Low projection: 12.7 mm (1/2").
- Small diameter: 203 mm (8").
- Shallow depth: installation in 134 mm base (long cover).
- Excellent photometric performances obtained by the use of reflector lamps: better efficiency, identical lamp performance after re-lamping, high optical stability.
- Easy maintenance due to limited number of components.
- Non-sealed prism easy to replace.
- Valve for water-tightness test.
- Many parts common with other lights in the same range.
- Easy handling and transport due to small size and low weight.

3. TECHNICAL CHARACTERISTICS

Component	Description
Lamp:	105W 6.6 Amps pre-focused halogen lamp with an integral dichroic-coated reflector. Lamp life greater than 1,000 hours at 6.6 Amps.
Power Supply:	The fitting is supplied with one two-pole secondary FAA plug to connect it to an isolating transformer (for Stop Bars) and to the dual LMS for the flashing function (see ASP document).
Photometry:	Distribution and homogeneity comply with Appendix 2 of ICAO Annex 14 Volume I and with FAA L-852G and L-852S.
Colour:	Yellow and 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

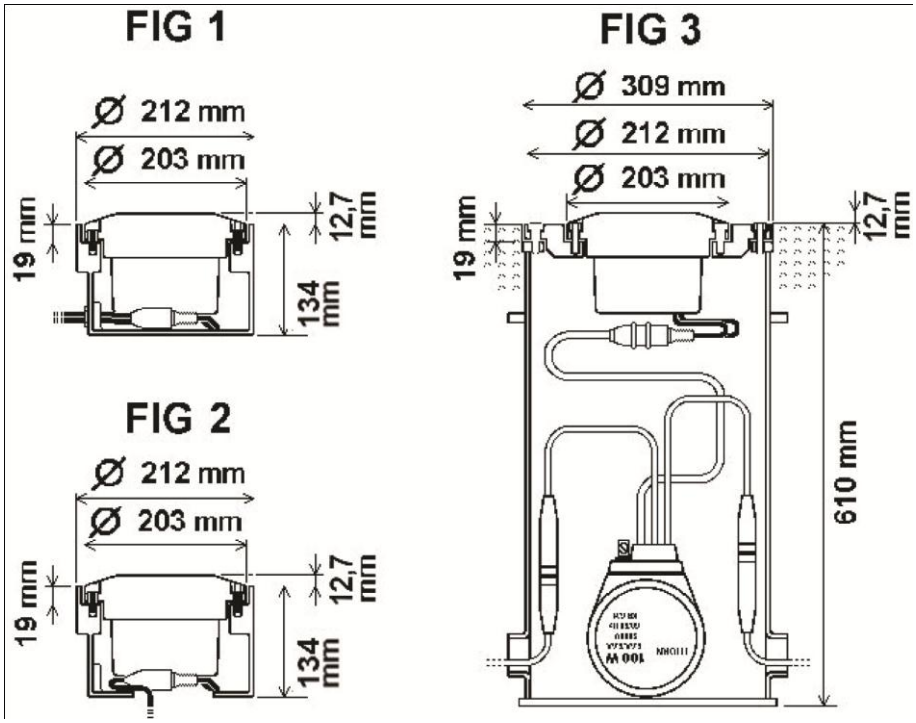
4. INSTALLATION OPTIONS

Description

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

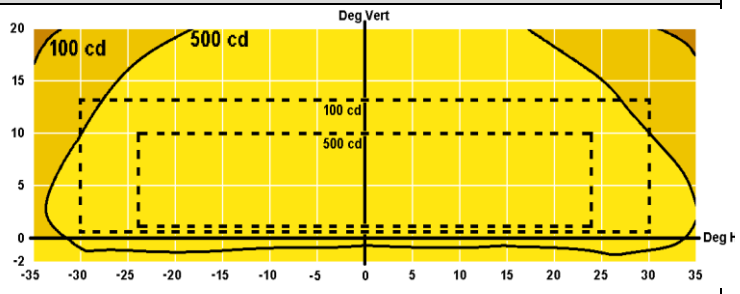
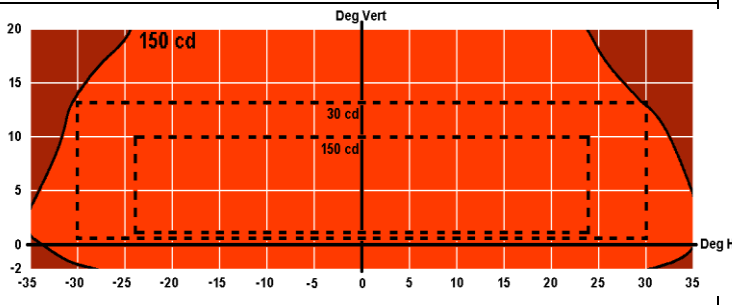
***Note**: For more information, see the Design section.*

Image examples

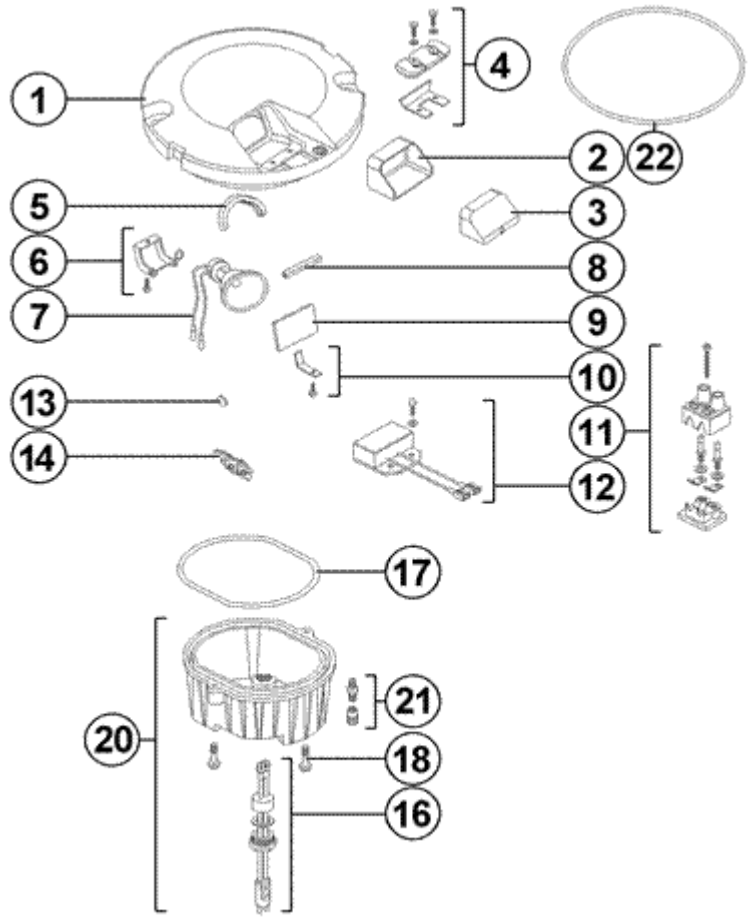


5. PHOTOMETRICS

This section includes photometric examples of different light configurations.

Photometric examples	
Runway Guard Lights ICAO and FAA L-852G INL-RG (1x105 Watts) Unidirectional Yellow Light I average : 1.500 cd I max / I min : 2.80	
Stop Bars FAA L-852S INL-RG (1x105 Watts) Unidirectional Red Light I average : 630 cd	

6. DESIGN

Components	INL-RG
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 105Watts at 6.6 Amps Diameter 50 mm 8. Filter protection gasket 9. Filter 10. Filter fixing spring and screw 11. Cable terminal 12. Cut out relay (*) 13. Film disk cut out (*) 14. Film disk cut out holder (*) 15. Not used 16. Cable subassembly for long cover 17. Cover gasket 18. Cover screw 19. Not used 20. Complete long cover 21. Valve for water tightness tests 22. 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-RG	105W	Y	RL
Colour					
Yellow (Runway Guard)	**Y**				
Red (Stop bar)	**R**				
Cut out device (option)					
One relay	**RL**				
One film disk	**FD**				
Additional					
8" shallow base and Adapter ring					
For more information, contact Safegate Group or see www.safegate.com.					

9. SPECIFICATION

- The runway guard lights or L-852S stop bars light shall be unidirectional high intensity complying with ICAO recommendations in Annex 14, Volume I, paragraphs 5.3.19 and 5.3.22, with FAA L-852G and L-852S standards, CAP168 and British Standards BS 3224.
- It shall be fitted with one 6.6 Amps halogen pre-focused dichroic reflector lamp not exceeding 105 Watts. Lamp life shall be greater than 1,000 hours at full intensity.
- 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 prism shall not be sealed.
- The filter shall be dichroic.
- The fittings in this range share many of the same components.
- No internal adjustment shall be needed.
- The weight 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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SAFEGATE GROUP

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