

# IRGL-LED, L852G

## Inset Runway Guard Light-LED

Compliances:  
FAA AC 150/5345-46: 852G  
FAA Engineering Brief 67



12" Fixture Shown

### Applications

Inset Runway Guard Lights are a series of alternate-flashing yellow, unidirectional inset lighting fixtures (L-852G) equally spaced along a runway holding position marking that are only visible to aircraft approaching the hold position from the taxiway side of the fixture. These unidirectional lights are designed for use in all weather conditions in autonomous mode.

### Features

- ETL Certified
- Low energy consumption Luxeon LEDs
- Long life LED technology, rated at 50,000h L70, reduces maintenance costs.
- Low profile, <.5" (13 mm) – FAA Style 2
- Operates on either 3 or 5 step ferroresonant CCRs
- Easy to maintain – no sealant required for prism or feed-through assembly replacement
- Pressure test plug for seal integrity verification
- Can be retrofitted on existing installations where Logitrac® Control Devices are available. Requires the addition of a second L-823 plug.
- The autonomous version features an internal circuitry that eliminates the need for synchronizing Local Control Devices. Fixture connects directly into isolation transformer. A simple, separate Remote Programming Tool is used to set the fixture to Initial ON or Initial OFF. The Remote Programming Tool, provided as accessory, can also be used to program different parameters.



|                     |                        |
|---------------------|------------------------|
| Dimensions:         | inches<br>(mm)         |
| Instruction Manual: | 1065                   |
| Shipping Weight:    | 18 lbs.<br>8.2 kg      |
| Shipping Volume:    | 0.7 cu. ft.<br>0.02 m³ |

### Ordering Information

|   |   |   |   |   |   |   |  |   |  |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|--|---|--|---|---|---|---|---|---|---|---|
| 8 | 5 | 2 | G | - | 7 | - |  | - |  | - | 1 | 2 | B | - | P | 1 | - |
|---|---|---|---|---|---|---|--|---|--|---|---|---|---|---|---|---|---|

**Fixture Type:**  
852G = Inset Guard Light

**Technology:**  
7 = Pro III LED Series

**Operation Mode:**  
YO = Autonomous, Initial Flash ON  
YF = Autonomous, Initial Flash OFF

**Frequency:**  
F1 = 60Hz Power Source  
F2 = 50Hz Power Source\*

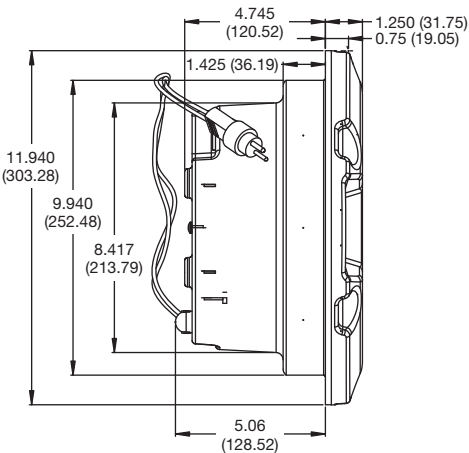
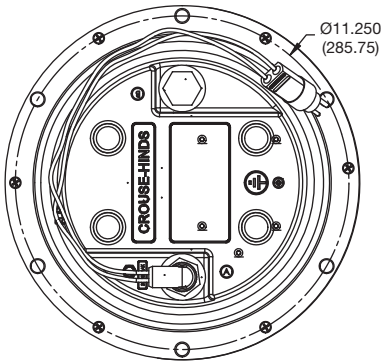
**Fixture Diameter:**  
12B = 12" Optical assembly type L868 size B

**L-823 Plug Connections:**  
P1 = One Plug

**Options:**  
0 = No Options  
1 = Arctic Kit

\* Meets FAA requirement, not ETL certified

### Outline Drawings



## Technical Data

### L852G LED Load and Transformer Requirement

| Option     | Primary Isolation Transformer |                |              | Secondary Isolation Transformer |                |              | Isolation Transformer Type | CCR Type |
|------------|-------------------------------|----------------|--------------|---------------------------------|----------------|--------------|----------------------------|----------|
|            | VA (@ 6.6A)                   | Watts (@ 6.6A) | Power Factor | VA (@ 6.6A)                     | Watts (@ 6.6A) | Power Factor |                            |          |
| No Options | 76                            | 86             | 0.88         | 70                              | 64             | 0.91         | 65W                        | Ferro    |
|            | 112                           | 69             | 0.62         | 65                              | 54             | 0.84         | 100W                       | Series   |
| Arctic Kit | 125                           | 118            | 0.95         | 110                             | 106            | 0.96         | 100W                       | Ferro    |
|            | 189                           | 116            | 0.614        | 106                             | 99             | 0.93         | 200W                       | Series   |

## Accessories

| Item Description                                 | Catalog Number | Item Description                         | Catalog Number |
|--|----------------|--|----------------|
| Base: L-868B, Class I, 24" Deep*                 | AC24242H200303 | Isolation Transformer – 100 W, 6.6/6.6 A | 33004          |
| Connector Kit – L-823, 8 AWG, 0.32" to 0.43" O.D | 823KP-D4-D4    | Isolation Transformer – 200 W, 6.6/6.6 A | 33006          |
| Heat Shrink Kit – 1 Piece                        | 10047-2154     | Lifting Tool                             | 19999          |
| Heat Shrink Kit – Two Pieces                     | 10047-1425     | Remote Programming Tool                  | 10047-3066     |
| Isolation Transformer – 65 W, 6.6/6.6 A          | 33003          |  |                |

\* Two-piece can may be required depending upon the paving technique. Thin profile bottom cover ensures easy fit in shallow bases.

## Renewal Parts

| Description                 | Part Number | Description                       | Part Number |
|-----------------------------|-------------|-----------------------------------|-------------|
| Cover, Bottom Assembly      | 21517       | Lens Replacement Kit              | 21480-C     |
| Housing, Optical Assembly   | 21275-11    | O-Ring                            | 21385       |
| L-823 Lead Assembly         | 21122       | Power Supply Transformer Internal | 50554       |
| LED Cartridge, Yellow, 852G | 21529       | Power Supply Circuit Card         | 21534       |

