



Runway Alignment Indicator Lights (RAIL)



Compliances (Current Editions)

FAA: AC 150/5340-30, 150/5345-51

Canada: TP 312 5th Edition

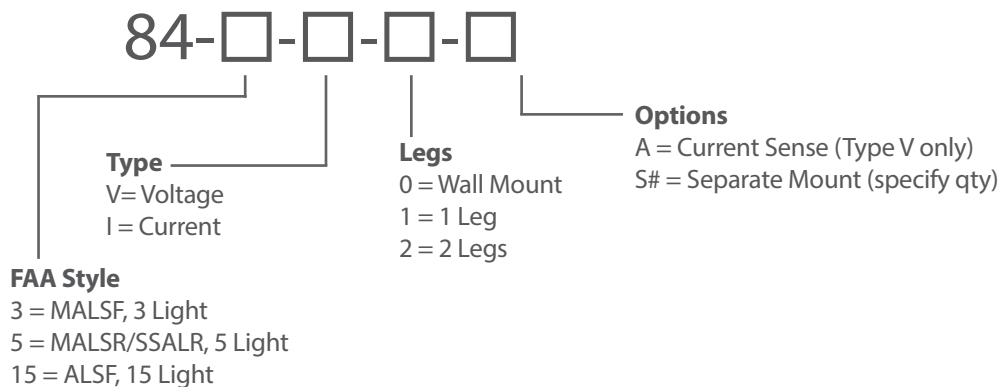
Application

Use of sequential flashing lights provide pilots a visual transition from instrument flight to visual flight during landing. The RAIL (Runway Alignment Indicator Lights) are used within an ALSF, MALSF, MALSR or SSALR approach system help the pilot align with the center of the approaching runway threshold.

Key Features

- Low maintenance costs
- Long-life LED for years of service
- Three Intensities (Low, Medium, High)
- Field Programmable Sequence timing
- Flash Monitoring
- Elapsed Time Meter
- Current or Voltage Driven
- L830-4 100W Isolation Transformers

General Catalog Numbers





Specifications

Physical Specifications

| | |
|--|--|
| UNI Flashhead (84-90000) | Weight = 3.5lbs Dimensions = 7H x 5.25W x 6D |
| Type V Power Supply (84-00905) | Weight = 4lbs Dimensions = 1.75H x 10W x 3.5D |
| Type I Power Supply (C7-LVCV2) | Weight = 1lb Dimensions = 2.5H x 7.25W x 2.5D |
| UNI Co-Mount (Enclosure + 84-90000) | Weight = 25lbs Dimensions = 22H x 15.25W x 6.5D |
| Enclosure | Weight = 21lbs Dimensions = 16H x 12W x 6.5D |

Specifications

Current-Powered

- 2.8 to 6.6 amperes
- Operates directly from 100W Isolation Transformers
- Current Sensing set-up at Primary Unit

Voltage-Powered

- 95-264VAC, 50-60Hz

Spare Components

| Description | Part Number |
|---------------------------------------|--------------|
| UNI Directional Flashhead | 84-90000 |
| Universal Controller Card (UCC) | 84-00013 |
| Sequential Controller Board | 84-00014 |
| Type-V Power Supply, 95-264V - 48Vout | 84-00905 |
| Type-V Voltage Power Conditioning PCB | 84-00904 |
| Type-I Power Supply, 6.6A | C7-LVCV2 |
| Type-I Diode Bridge | C7-BRG |
| Type-I Gas Discharge Tube | C7-GDTH |
| Interlock Switch | 55-00201 |
| Flashhead Cable, 50' | 55-00800-050 |
| Flashhead Cable, 100' | 55-00800-100 |
| Flashhead Cable, 200' | 55-00800-200 |
| Frangible Coupling, 2" EMT | 59-E |

Equipment Data

| | |
|-----------------------|---------------------------------------|
| Control | Remote, local, or automatic |
| Flash Rate | 120 fpm |
| Uni Nominal Intensity | High 15,000; Medium 1,500; Low 300 |
| Uni Beam Spread | 30° horizontal 10° vertical |

RAIL Fixture Peak VA Ratings

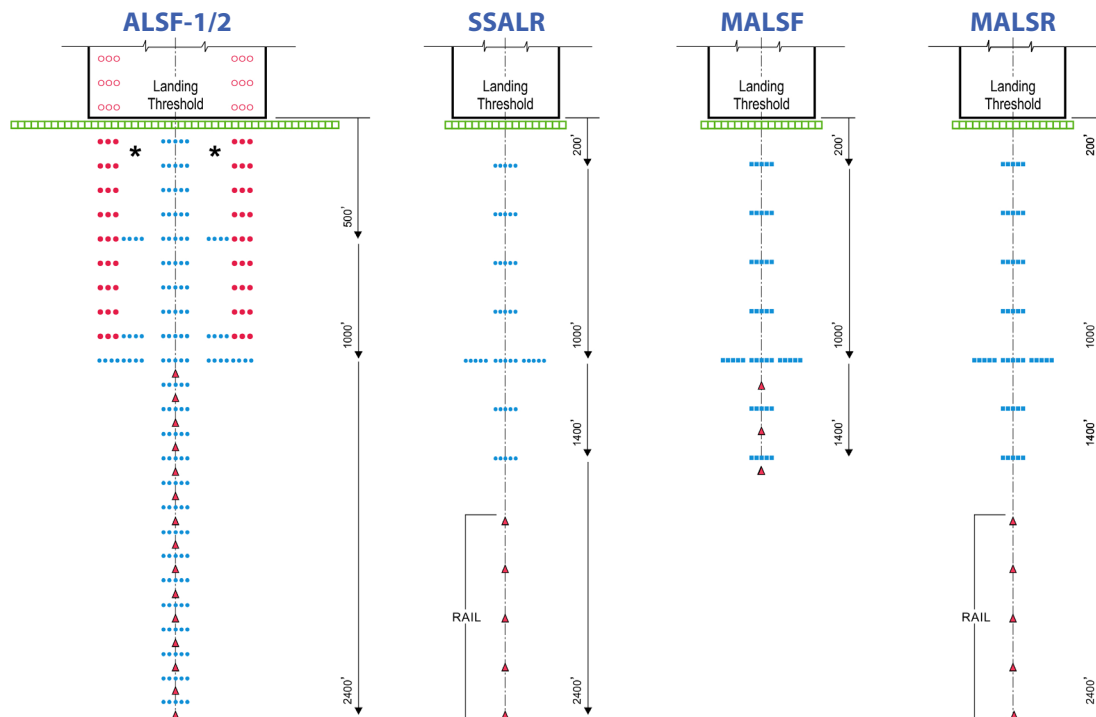
RAIL

| | |
|--------|-----|
| Type I | 157 |
| Type V | 289 |



RAIL Diagrams

Airport Lighting Company provides the L-849(L) Uni-directional system to operate within each Approach Lighting System as a RAIL (Runway Alignment Indicator Light). Each RAIL system will provide a sequence of flashing lights to create a clear visual guide to align with runway threshold.



RAIL Runway Alignment Indicator Lights

ALSF-1 High Intensity Approach Lighting System with Sequenced Lights (CAT I Standard)

ALSF-2 High Intensity Approach Lighting System with Sequenced Lights (CAT II Standard)

SSALR Simplified Short Approach Lighting System with RAIL

MALSF Medium Intensity Approach Lighting System with Sequenced Flashing Lights

MALSR Medium Intensity Approach Lighting System with RAIL (CAT I Standard)

- Steady Burning Red Lights
- High Intensity Steady Burning White Lights
- Medium Intensity Steady Burning White Lights
- ▲ Sequenced Flashing Lights
- Threshold Lights
 - ALSF - 49 on 5' centers
 - SSALR - 18 on 10' centers
 - MALSR - 18 on 10' centers