NAVIGATE SERIES®

L-849V LED REIL System Style AE

Runway End Identifier Light

COMPLIANCES

L-849V(L) – Powered by a voltage source
Style A – 1-Step high intensity
Style E – 3-Step intensity levels
(low, medium and high)
FAA AC 150/5345-51 (current edition)
FAA Engineering Brief 67D

ETL Certified

PATENT PENDING

Meets “Buy American” requirements.

ICAO: Annex 14, Vol. 1, para 5.3.8

PRODUCT APPLICATION

The Navigate Series® LED Runway End Identifier Light (REIL) System is a landing aid for pilots to identify the approach end of a runway. The REIL system includes a Control Cabinet Assembly (CCA), two Identifier Units (Flashers), and an Aiming Device. The Identifier Units are installed at each side of the approach end of the runway. The lights are angled to have an effective visual range in clear weather of approximately 3 miles during the day and approximately 20 miles at night. This provides pilots with adequate time to plan and execute a safe approach and landing at night or in reduced visibility conditions.

FEATURES

- Long LED life.
- Three intensity levels for Style E; high intensity only for Style A.
- Built-in thermostatic heater.
- Local, remote and automatic operation.
- Light weight and state-of-the-art technology provide for ease of installation.
- GFI maintenance outlet provided for plug-in test equipment.
- Control Cabinet and IUA cabinets are both NEMA 4X.

ORDERING INFORMATION

Description	Part Number
REIL System Style A	P2-08-0001-102
REIL System Style E	P2-08-0001-002
System Components:	
Control Cabinet Assembly (CCA)	A3-06-3109-001
Identifier Unit Assembly, Style A (2 per system)	A3-06-3110-003
Identifier Unit Assembly (IUA), Style E (2 per system)	A3-06-3110-002
Aiming Device	A3-06-3111-001
2-inch Frangible Coupling (4 per system)	A1-17-1134-001
Junction Box Assembly (2 per system)	A3-06-3123-001
Technical Instruction Manual	Y3-01-0169
Installation Drawings	N1-01-0003-001

RENEWAL PARTS

Description	Part Number
PWA, IUA	A3-07-1095-001
PWA, Control Cabinet	G1-62-3012-001
PWA, Surge Protector	A3-07-1106-001
PWA, Heater Control Board	G1-62-3026-001
Fuse, SLO-BLO, 3AG, 3A, 250V	A1-21-0031-001
Fuse, SLO-BLO, 3AG, 250V, 1A	A1-21-0031-002
Fuse, 15AMP, 250V, CERAMIC, SLO BLO	A1-21-0033-001
Fuse, 10A, 250V, SLO BLO	A1-21-0033-003
Fuse, 5 X 20MM, 3AMP, 250V, SLO BLO	A1-21-0033-002
Fuse Holder	G1-17-4004
Breaker, 120/240V, 50/60HZ, 30A	A1-12-0109-001
IUA, Style A (Without bracket)	A3-06-3113-002
IUA, Style E (Without bracket)	A3-06-3113-001
Light Engine	A3-06-3116-001
IUA Mounting Bracket Assembly	G1-58-1001
2-Inch Mounting Clamp	G1-58-1022-001
Screw, Spares Kit, Seal SFR6-32 x 7/16 (quantity of 20 provided)	K2-02-0004-001
Surge Protector, 120/240V AC 0-400Hz	D5999000054

ENVIRONMENTAL OPERATING CONDITIONS

Operating Temperature: -55 °C (-67 °F) to +70 °C (+158 °F)
Elevation: Sea Level to 10,000 feet (3,048m)
Humidity: 0 to 100%
Wind (IUA): Velocity up to 150 knots

TECHNICAL SPECIFICATIONS

External Power Requirements: 120/240VAC/60Hz or 240VAC/50Hz, single phase, 10A
Photometric Intensity:
- High: 15,000 candelas ± 50% (Style A and E)
- Medium: 1,500 candelas ± 50% (Style E only)
- Low: 300 candelas ± 50% (Style E only)

Flash Timing: 120 flashes/minute
Coverage: 10º vertical; 30º horizontal

MODES OF OPERATION

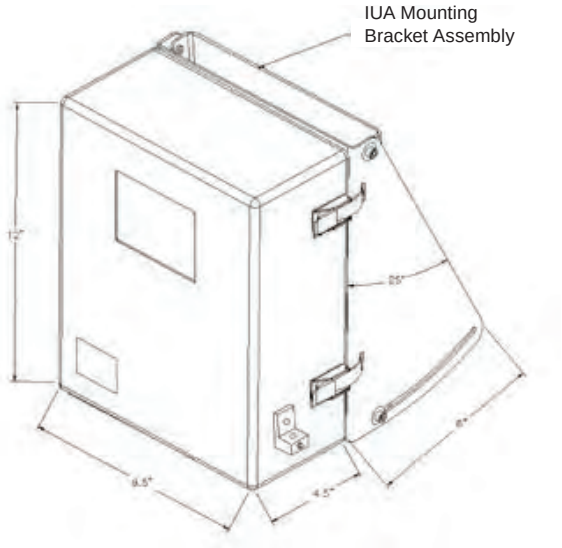
Local Operation: Through keypad and display.

Remote Operation: Ground-to-Ground Radio Link; Air-to-Ground Radio Link.

Automatic Operation: Sensing current of the runway edge lights through isolation transformer.

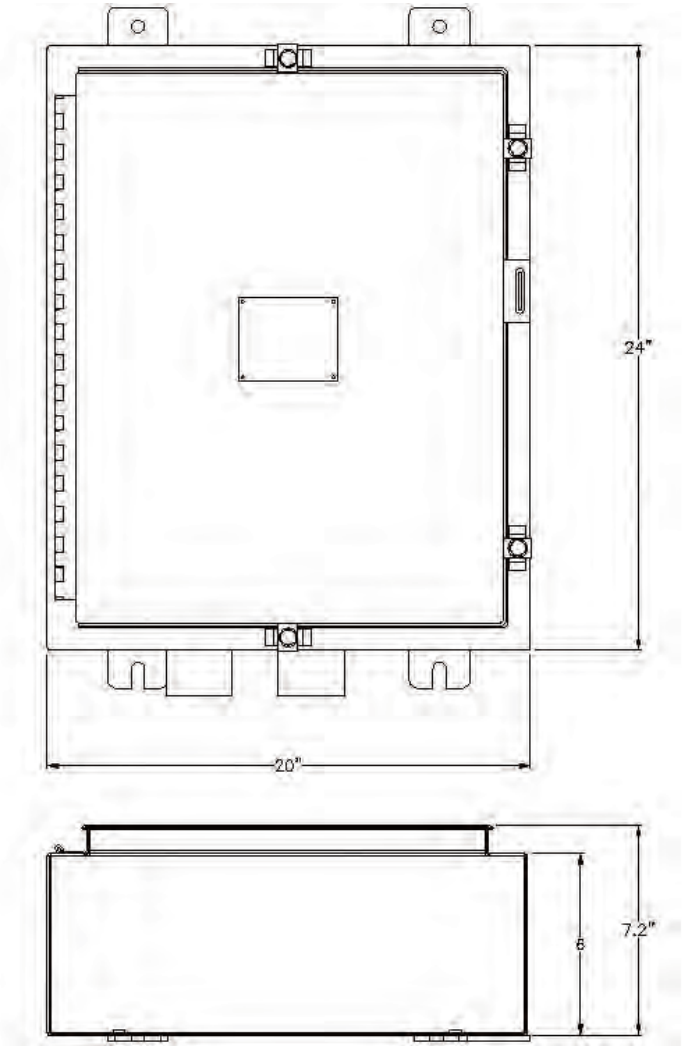
IUA SPECIFICATIONS

Dimensions: 9.5” x 12” x 4.5”
Weight: 9.68 lb.
Volume: 0.3 cu ft.



CONTROL CABINET SPECIFICATIONS

Dimensions: 24” x 20” x 6”
Weight: 29.2 lb.
Volume: 1.7 cu ft.



OTHER REQUIRED EQUIPMENT

To operate the REILs in remote mode, you need one of the following items:

- Air to Ground Receiver
- Remote Radio Control Interface Unit

To operate the REILs in automatic mode for either 50Hz or 60Hz at 6.6A or 20A, you need a 30/45W isolation transformer.

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