

REIL/RTIL

Multi

ELECTRIC

**RUNWAY END
IDENTIFIER LIGHT /
RUNWAY THRESHOLD
IDENTIFIER LIGHT**

COMPLIES WITH
AFMAN
FAA AC150/5345-51
L849 A & E
ICAO ANNEX 14
NATO STANAG 3316



General Description

The Runway End Identifier Light / Threshold Identifier, is used to indicate to a pilot the positive position of a runway threshold under VFR and non-precision IFR conditions. The REIL/RTIL contains a master and slave strobe power supply on each side of the threshold. These strobe flash at a rate of approximately twice per second simultaneously. Visual aids required with the use of the REIL/RTIL include high intensity runway edge lights, runway threshold lights or displaced threshold lights, and runway markings. The PAPI system may also be an associated with a REIL/RTIL. This system should never be used in conjunction with Pulsed Light Approach Slope Indicators (PLASI) system.

ORDERING INFORMATION

Basic REIL/RTIL System: 5 4 1 3 X 5 - X - X

Type: _____
 L 849 Style A = 2
 L 849 Style E = 3

Master/Slave _____
 Master with Optical Head and Lamp = M
 Slave with Optical Head and Lamp = S
 Full System with Aiming Device = C *

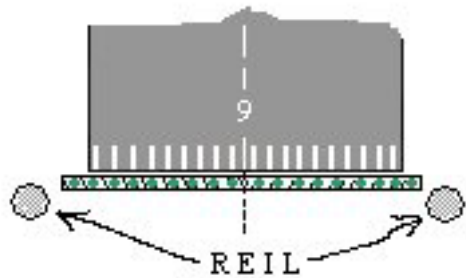
Control: _____
 6.6A Current Loop Control = 1
 120VAC Remote Control = 2
 240VAC Remote Control = 3

Example:

- 1) An L849A System with Current Loop Control order 541325-C-1
- 2) An L849 E Slave order 541335-S
- 3) An L849-E System with 120 V Control order 541335-C-1

* Available as Series Circuit Powered by adding Option SSA to the system Part No.

REIL/RTIL SYSTEM INSTALLATION



A REIL/RTIL system consists of synchronized flashing lights placed symmetrically about the runway centerline in the vicinity of the runway threshold. The optimum location is 12 meters (40 feet) from the runway edge and in line with the threshold lights. The lights may be located laterally up to 22.5 meters (75 feet) from the runway edge and longitudinally up to 12 meters (40 feet) downwind (away from the runway) from

the threshold lights to 27 meters (90 feet) upwind. The location of both lights should be as equal as possible to maintain the symmetry of the installation. The difference in locations should not be more than 3 meters (10 feet) laterally or longitudinally. The elevation of both lights should be within 3 meters (10 feet) of the runway centerline at the threshold. A 27-meter (90 foot) upwind and a 12 meter (40 foot) downwind longitudinal tolerance is permitted from the runway threshold in locating the light units. See FAA AC 150/5340-14 for additional information.

Renewal and Option Parts

Part Number	Description	Part Number	Description
4612	Aiming Device, Strobe	541338	Timer, REIL
550330-14	Lamp, Strobe	550350-30	Trigger Relay
540370	Current Sensor	55316	Lamp Socket
550430-21	Capacitor, 1 μ f	55047	High Voltage Wire
550430-22	Capacitor, 3 μ f	55012	High Voltage Bridge Rectifier
550430-25	Capacitor, 25 μ f	55043	Lightning Arrester
CSR 4	Capacitor, 30 μ f	55022	Toggle Switch
550345	CCA, Discharge & Trigger Voltage	560345	CCA, Strobe Trigger/Intensity control
55031	Resistor, Charging	560345-3	Relay, Discharge – 240V
425BXX	Relay, Interlock	560345-4	Relay, Intensity Select – 120V

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