



ZA489

REIL / RTIL / ALSF

Runway End Identification
Lights

Features

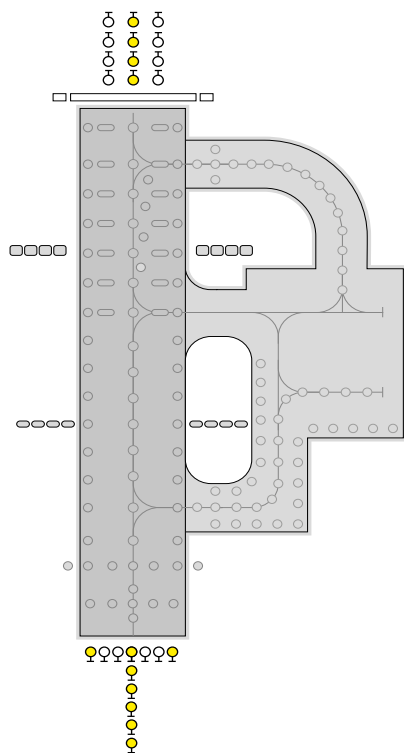
- ▶ A simple electronic system is used to adjust the flashing sequence.
 - ▶ Simultaneous or sequenced firing
 - ▶ Thanks to simple wiring flashing sequence of the full system can be controlled with a single 2-core cable.
 - ▶ Lights can be mounted on Aluminium columns with an outer diameter of 60mm.
 - ▶ The light has an assembly for angle adjustment
 - ▶ Silicone rubber gasket is used to provide watertightness
 - ▶ Safety switch cuts off the power of control cabinet when light needs to be re-lamped.
 - ▶ The light has a trigger transformer and a terminal block for incoming cables
- The lamp has a minimum life of 500 hours

Related standards

- ICAO Annex 14 Vol 1 Para 5.3.8
- FAA 150/5345-51 E-849
- NATO STANAG 3316

Application

- ▶ High intensity precision approaches
- ▶ Identifying extension of runway centerline, sequenced flashing and in identifying runway threshold, simultaneous flashing suitable for use in category I, II and III all weather operation airfield lighting systems.



Features of the control cabinets

- ▶ Each light is coded in the cabinet according to its location or sequence, lights can be placed up to 50m away from the cabinets. Thermo regulated heating is done in the cabinets to prevent condensation. Input voltage adjustable from 200 to 250V ensures proper light output.
- ▶ A control cabinet contains; a monophase transformer, rectifier, power capacitor, printed circuit board for triggering, contactor, terminal block for energy supply cable and connection cables to the lights.
- ▶ Cabinets are made of fiber polyester. The cover is hinged, outlets for air circulation are designed to keep water or any other material out.
- ▶ Cabinets have special locks.
- ▶ Power supply is cut off and the capacitors are discharged automatically when the cover is opened.
- ▶ Thermo regulated heating is done against condensation.
- ▶ Has a roof structure to protect from sunlight.
- ▶ With the control cabinet breakable couplings, mounting column, clamps and all other mounting equipment are delivered
- ▶ Cabinets can resist winds as fast as 160km/hour.
- ▶ Control cards are placed in socket thus plugged and removed easily.
- ▶ Main control cabinet has the same features as the control cabinets. It also has a printed circuit board that can be adjuster to flash the system in sequence once or twice per second.

Materials and Finish

- ▶ Lamp body and other parts have electrostatic powder coating. The color is aviation yellow. Hardware, screws, washers and bolts are made of stainless steel

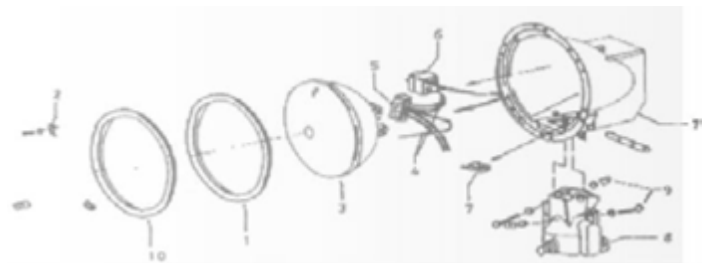


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Photometric Performance

- ▶ Lamp used : PAR 56 type FT34HP lamp • Energy per flash : 60 Joule
 - ▶ Peak intensity : 25x106 Cd
 - ▶ Effective peak intensity: 14.000 Cd
 - ▶ Flash duration at half the effective intensity : 120 microseconds
- Effective Intensity at $\pm 15^\circ$ horizontal and vertical beam spreads : 8000 Cd

Construction of fixtures



1. Silicone rubber gasket
2. Lamp clamps
3. PAR 56 lamp FT34HP
4. Internal wiring
5. Terminal block
6. Trigger transformer
7. Die-cast aluminium body with safety switch
8. Aluminium cast lower body
9. Adjustment screws
10. Window ring

Environmental Conditions

- ▶ Ambient Temperature -30 °C to +60°C (-22 °F to +140°F)
- ▶ Storage Temperature -30 °C to +60°C (-22 °F to +140°F)

Weight

- ▶ Control cabinet weight 14kg