

REIL (Runway Threshold Identification Lights), FLASHING UNIT

APPLICATIONS

- In high intensity precision approaches
- In identifying extension of runway centerline, sequenced flashing and in identifying runway threshold, simultaneous flashing

RELATED STANDARTS:

ICAO Annex 14 Vol. I Para. 5.3.8
FAA AC 150/5345-51 E-849
STANAG 3316



IMPORTANT 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 Aluminum columns with an outer diameter of 60mm
- The light has an assembly for angle adjustment
- Silicone rubber gasket is used to provide water tightness
- The light has an assembly for angle adjustment
- 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

PHOTOMETRIC PERFORMANCE

- Lamp: Used PAR 56 type FT34HP lamp
- Energy per flash: 3/9/60 Joule (3 level)
- Peak intensity: 25×10^6 Cd
- Effective peak intensity: 14.000 Cd
- Flash duration at half (7000 CD) the effective intensity: 120 microseconds
- Effective Intensity at $\pm 15^\circ$ horizontal and vertical beam spreads: 8000 Cd



IMPORTANT FEATURES OF 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 mono phase 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

IMPORTANT FEATURES OF CONTROL CABINETS (CONTINUED)

- 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 operate between -30°C and +60°C
- Cabinets can resist winds as fast as 160 km/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

