

MALSR

Medium Intensity Approach Lighting System

APPROACH LIGHTS & NAVIGATIONAL AIDS - 3.16

SYSTEM COMPONENTS

The following components make up a MALSR system:

Component	Part Number
(1) Main Control Cabinet	G1-23-2600
(5) ICC's (Individual Control Cabinets)	G1-23-2700
(5) Flash Head Assemblies	G1-23-1300
(5) Junction Boxes	G1-23-1900
(45) PAR 38 Lampholder Assemblies	G1-23-1600
(18) PAR 56 Lampholder Assemblies	G1-23-1800
(1) Flasher Tester	G1-23-1500
(1) Power Transformer	G1-23-1400
(1) Aiming Device	AE-C-1391-1
(18) Green Filter Marker Light	MS24489-2
(18) PAR 56 300W Incandescent Lamps	A1-14-0061
(45) PAR 38 150W Incandescent Lamps	A1-14-0060-002
(1) Technical Manual	TI6850-97
Site Spares (includes PWA timer control, SCR, and trigger sense)	G1-23-0001

SPECIFICATIONS

Input Power: 120/240VAC, 1 phase, 3-wire

Photometric Intensity:

High: 8,000 to 20,000 effective candela

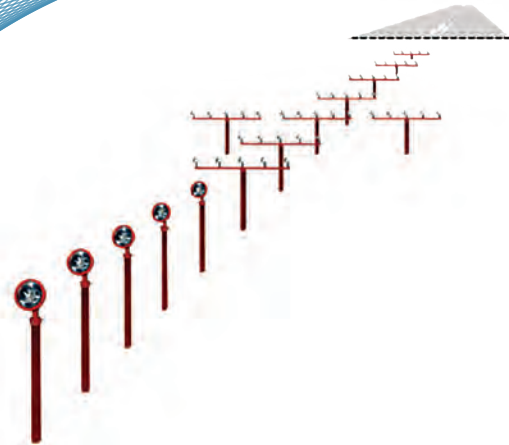
Medium: 800 to 2,000 effective candela

Low: 150 to 450 effective candela

Flash Timing: 120 flashes per minute

Flash Duration: 250 microseconds

Number of Flashers: 8 maximum



COMPLIANCES

FAA-E-2325e, FA-17900

PRODUCT APPLICATION

The MALSR is a Category 1 precision approach visual guidance lighting system installed in runway approach zones, along the extended runway centerline. The MALSR system will pierce moderate to very limited visibility, enabling the pilot to transition from an "instrument to visual" during the approach. As an additional aid to the pilot, the sequenced flashing Runway Alignment Indicator Lights (RAILs) provide lateral centering guidance.

The MALSR typically consists of a main control cabinet, 15-KVA transformer, 18 green threshold lights, 45 steady burning approach lights which are arranged in a set pattern extending out 1,400 feet from the threshold, and 5 sequenced flashing lights positioned between 1,600 and 2,400 feet out from the threshold. All lights are available as semi-flush or elevated fixtures. The system features solid-state electronics and soft-start circuitry to minimize in-rush to the relay contactors and lamp filaments, for improved reliability and maintainability.

FEATURES

- Solid-state electronics.
- Three intensity levels.
- PCL, remote and manual switching.
- FAA depot-supported.

MODES

Local Control:
 System / Off-Low-Medium-High
 Flasher / On/Off

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

ENVIRONMENTAL CHARACTERISTICS

- Operating Temperature: -55 °C to +70 °C
- Elevation: 10,000 feet
- Humidity: Up to 95%

MALSR PATTERN DIAGRAM

