

### →Application

- omnidirectional elevated lights with integrated transformer designated for unserviceability of runways or taxiways

### →Certificate basis

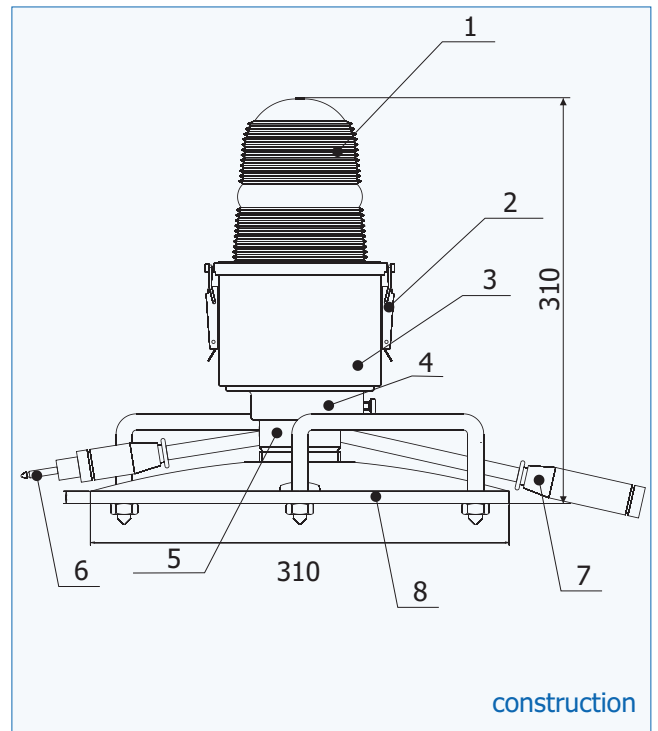
- ICAO AERODROMES ANNEX 14 Volume I-4rd
- FAA AC 150/5345-46B
- STANAG 3316
- MAK

### →Description/Properties

- omnidirectional elevated light characteristic with integrated transformer
- primary outlets are lead out at the bottom part of the aluminum case through the light support and through the breakable coupling above the disk that enable disconnection of the lighting marker in case of a collision with an aircraft or vehicle
- optical system and integrated insulating transformer imbedded in aluminum case form one unit
- the lights are made of castings and formed pieces of aluminium alloys, a glass formed piece and connecting stainless steel parts that are resistant to salty environment and UV radiation.
- support is an aluminium casting to which the marker is fixed
- it also serves as fixing of the light in the tube to the breaking coupling
- the colour dioptrés are made of glass resistant to thermal shocks
- the glass dioptré is sealed in an aluminium annular ring and this unit is tied to the aluminium cover using two stainless steel clips
- light ML 121 UL is supplied as a complete set together with breakable coupling and support for placing of light on taxiway

### →Construction

- 1 Dioptré with sealed annular ring
- 2 Stainless steel clips
- 3 Transformer aluminium cover
- 4 Support of the light
- 5 Breakable coupling threaded 2" NPSM
- 6 Primary outlets with connector FAA L-823 style 2
- 7 Primary outlets with connector FAA L-823 style 9
- 8 Base plate (support) for placing of light on taxiway type 002 662 UL



chapter:

# 5.1.2

# ML 121 UL



## → Connection / supplying

- powered from the constant current regulator via the airport serial power distribution system 6,6 A
- primary outlets are provided with connectors FAA L-823 style 2 and style 9
- the secondary outlet is led to the lamp cap prism Pk 30d

## → Mechanical parameters

- weight ~ 4,2 kg
- dimensions
  - heigh 237 ±1 mm
  - diametr 145 ±1 mm
- adjustability
  - horizontal 0° ÷ 360°
  - vertical 0°

## → Electrical parameters

- supplying current loop 6,6 A
- insulation resistance 50 MΩ/100 V DC
- total power demand ± 10% acc. 45 VA
- lamp nominal current 6,6 A
- electric strength 15 kV/50 Hz/1 min./NN/VN

## → Operating conditions

- level of protection IP 65
- climatic conditions ± 55 °C
- breaking moment of the coupling 580 ±Nm
- resistance to wind and exhaust gases 560 km /h
- resistance to UV radiation
- resistance to corrosion (salt mist)
- resistance to vibrations with frequencies from 20 to 2,000 Hz and acceleration 2G

## → Source of light

- halogen airport bulb 45 W/6,6 A with cap Pk 30d
- lamp lifespan 1000 hours

## Ordering codes / application

Type	el. power [W]	color	application	code
UL	45	red	unservicability of runways or taxiways	913-068