ELECTRONIC SYSTEMS

ML 121 H

chapter: 9.2.1

Application

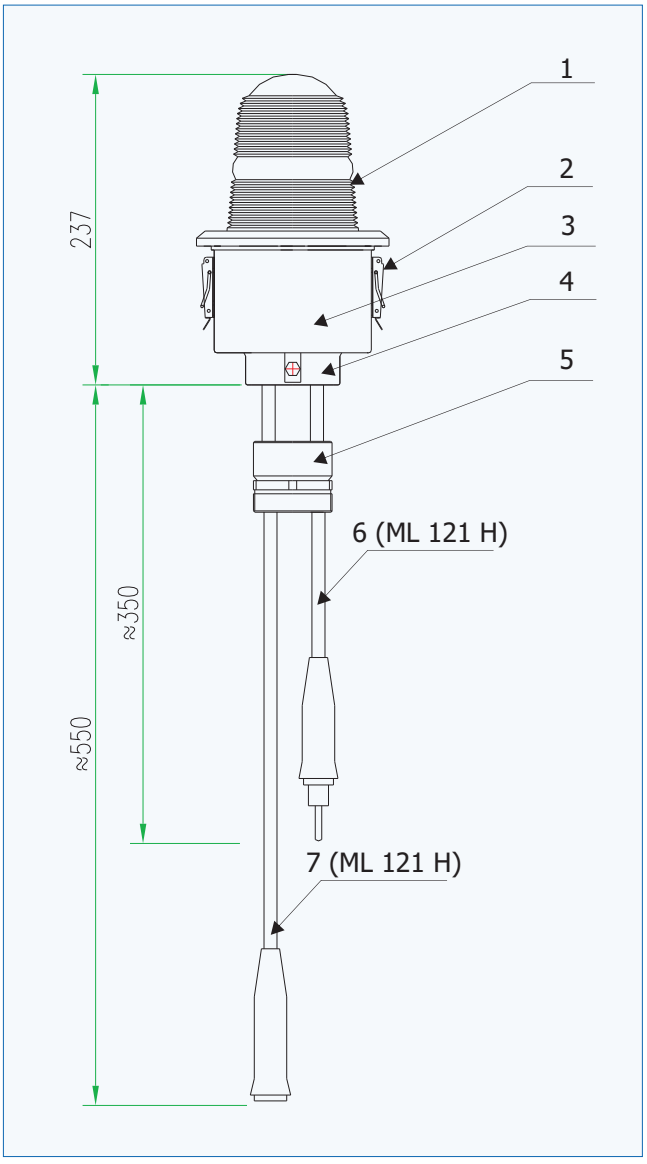
- **ML 121 H** - omnidirectional elevated lights with integrated isolating transformer intended for heliport lighting system, powered from the constant current regulator via the airport serial power distribution system

Certificate basis

- ICAO ANNEX 14 VOLUME II HELIPORTS
- FAA AC 150 / 5390-2A
- FAA AC 150 / 5345-46B
- STANAG 3316
- SSGA

Description/Properties

- light **ML 121 H** is composed of an optical system and integrated isolating transformer, which is embedded in an aluminium casing
- omnidirectional elevated lights low intensity
- primary outlets wires are located in the bottom section of the aluminium cover inside the light base plate which is part of the light and allowing to be disconnected in the event of a collision with an aircraft or a vehicle
- 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
- support serves for fixing light in the fixing elements
- the colour dioptres are made of glass resistant to thermal shocks.
- glass dioptre is embedded in an aluminium circular ring and this whole unit is tightened with two stainless steel strips to the aluminium casing



Construction

1	Dioptre with sealed annular ring
2	Stainless steel strips
3	Transformer aluminium cover
4	Support of the light
5	Breaking coupler with thread 2" NPSM
6	Primary outlet with connector FAA L-823 style 2
7	Primary outlet with connector FAA L-823 style 9

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Connection / suplying

- ML 121 H powered from the constant current regulator via the airport serial power distribution system 6,6 A
- power supply outlets of the light with connectors FAA L 823
- the secondary outlet is led to the lamp cap prism Pk 30d

details see also sec tion «fixing elements»

Mechanical parameters

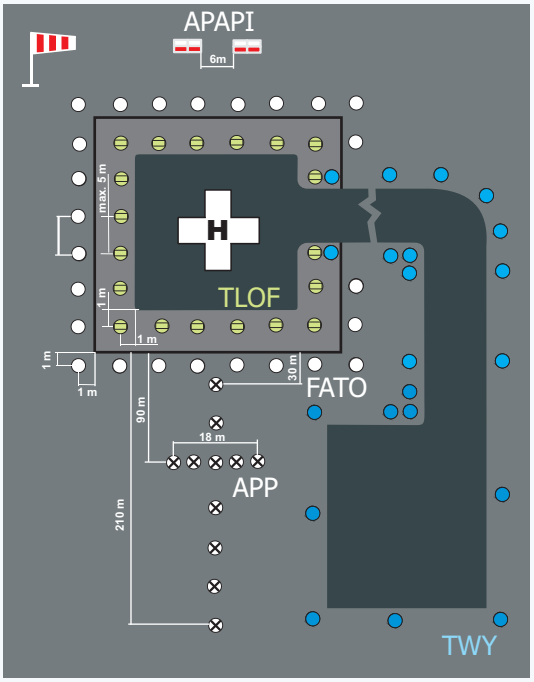
- mass ~4,2 kg
- size
  - height 215 ±1 mm
  - diameter 147 ±1 mm
- adjustability
  - horizontal 0°÷360°
  - vertical 0°

Electrical parameters

- supplying 6,6 A
- protection IP 65
- resistance of isolation 50 MΩ / 1000 V DC
- total power ±10%
  acc. to alternatives 45 VA/65 VA/100 VA
- lamp nominal current 6,6 A
- electric strength 12 kV/50 Hz/1 min.

Operating conditions

- protection IP 65
- climatic conditions ±55 °C
- resistance to wind and exhaust fumes up to 240 km/hour
- lights are made of materials resistant to UV radiation
- source of light halogen airport bulb
- resists to vibrations with frequencies 20÷2000 Hz and acceleration 2G



Source of light

- halogen airport lamps with power demands of 45 W/6,6 A, 65 W/6,6 and 100 W/6,6 A with screw caps Pk 30d
- lamp lifespan 1000 hours

Accessories

- accessories must be ordered separately, for

Ordering codes / application

type	el. power [W]	color	application	H
FATO	100	white	area of final approach for landing and take-off	913-060
TLOF	45	yellow	area for landing and take-off	913-061
TLOF	65	green	area for landing and take-off	913-094
APP	100	white	approach lighting system	913-063
TWY	45	blue	tyxiway side row barrettes	913-062

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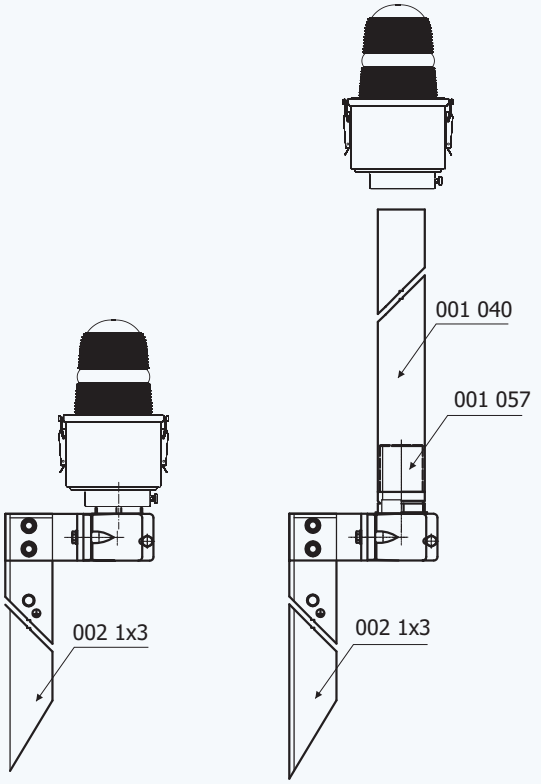
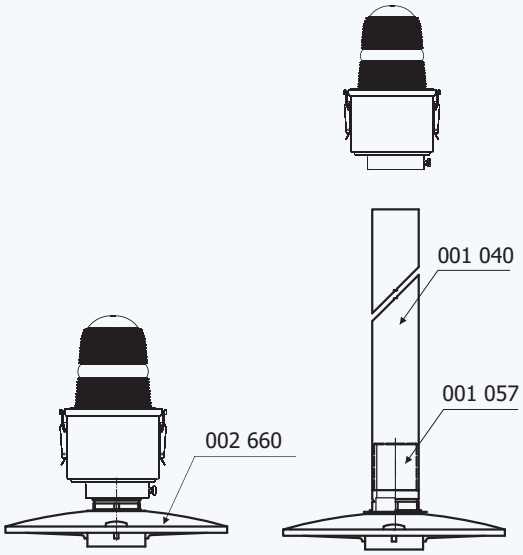
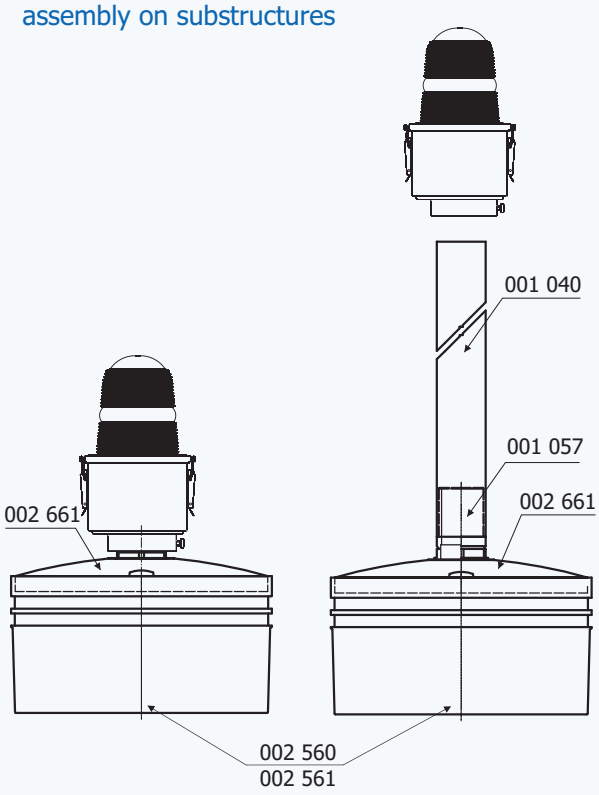
assembly on needle



assembly on base plate



assembly on substructures



mobile assembly