

**Application**

- LED 6,6 A / 230 V omni/bi-directional elevated low/medium intensity light for stationary/mobile aerodromes/heliports
  - APP approach centre line and crossbars light
  - END runway end light
  - FATO final approach and take-off area light
  - HAPP heliport approach steady burning light
  - RWY runway edge light
  - THR unway threshold light
  - THREND threshold/runway end light
  - TLOF touchdown and lift-off area light
  - TWY taxiway edge light

**Accordance with**

- ICAO ANNEX 14, Vol. 1  
5.3.9.9, 5.3.10.9, 5.3.11.4, 5.3.16.3, Tab. 6-3
- ICAO ANNEX 14, Vol. 2  
Obr. 5-11
- IEC TS 61827
- FAA EB 67D

**Properties - common**

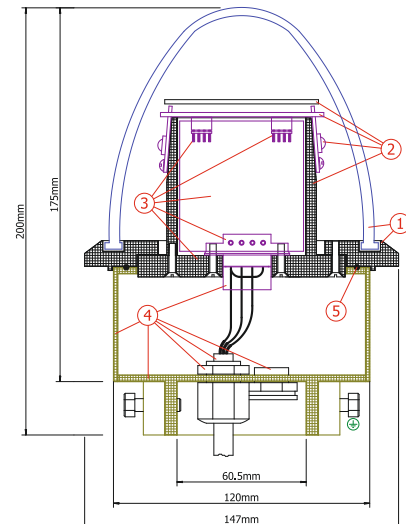
- long life cycle due to durable construction (aluminum alloys, stainless steel, glass)
- attaches to breakable coupling or stake Ø 60 mm
- quick and easy repairs due to removable light head (not needed to remove the whole light from the stake of frangible coupling)
- effective maintenance due to easy disassembly of the light head to basic modules, a wide range of spare parts and many common parts with other series TLE20 lights
- the light design enables pressure compensation and protects against water condensation inside the light
- LED monitoring secures that there will not be a lack of light intensity in certain azimuth
- integrated reflective surfaces enables easy light localization even if not operated

**Construction**

1. glass head with aluminium ring
2. lighting unit with LEDs and LED driver
3. power supply unit with intensity regulation
4. basic unit with cables and connectors
5. ring sealing

**Properties - series 6,6 A power supply**

- accordance with FAA EB 67D LED intensity regulation standards
- as an option can be equipped with a module that disconnects isolating transformer secondary winding

**Properties - parallel 230 V power supply**

- light intensity is regulated via power-ups by PSK (phase shift keying), which secures that light intensity is not vulnerable to voltage losses or drops
- suitable economical substitution for series 6,6 A power-ups systems for vast heliports and airports with VFR RWY or non-precision IFR RWY
- a wide range of power-ups voltage level

chapter:

## 5.3.6

## TLE20

**Mechanical parameters**

- weight – series 6,6 A power-ups 2,2 kg
- weight – parallel 230 V power-ups 1,8 kg
- dimensions: height 200 mm, diameter 147 mm

**Resistance to**

- temperature -55 ÷ +55 °C and thermal shock
- humidity, snow, ice, and water (IP67)
- salt fog, solar and UV radiation
- vibrations 20 ÷ 2 000 Hz with acceleration 2 G

**Source of light**

- high power LEDs, lifetime >100 000 hrs. of standard operation

**Power-ups**

- by isolating transformer with 6,6 A on secondary output (transformer power according to the light energy consumption)
- by parallel power-ups 1NPE ~50Hz/230V/TN-S for electrical appliance class I (fixed installation)
- by parallel power-ups 1N ~50Hz/230V/IT (electrically separated power-ups – without equipotential bonding) for electrical appliance class II (mobile)

**SKU**

TLE200-TWY -B -M  
TLE200-TLOF -G -P1 -C2  
TLE200-FATO -W -P2

**light group**

0 - omnidirectional  
1 - unidirectional  
2 - bidirectional

**light function**

APP approach centre line and crossbars light  
END runway end light  
FATO final approach and take-off area light  
HAPP heliport approach steady burning light  
RWY runway edge light  
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THREND threshold/runway end light  
TLOF touchdown and lift-off area light  
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**beam color**

B - blue | G - green | R - red | W - white | Y - yellow

**power supply**

\* if the power supply system is not used, the light is designed for airfield series power supply system 6,6 A

P1 - parallel 230 V/50–60 Hz, electrical appliance class I, PSK 3-step regulation

P2 - parallel 230 V/50–60 Hz, electrical appliance class II, PSK 3-step regulation

**other specifications**

\* code for „other specification“ must be written in alphabetical order

PORT - mobile version (including base plate with handles)

C2 – two leads (2-core cable), input L-823 style 5/1, output L-823 style 12/7 (parallel power ups only)

C9 – non-standard power ups connection (non-standard connectors)

M - monitoring module (open circuit condition)

**Note:**

- spaces in examples above used for clarity only

**Ordering code examples:**

TLE200-TLOF-G-P1-C2

touchdown and lift-off area light, green, parallel 230 V/50–60 Hz, electrical appliance class I power-ups 230 V/50–60 Hz, regulation PSK, two leads (2-core cable), input L-823 style 1/5, output L-823 style 12/7 (parallel power ups only)

TLE200-FATO-W-P2-B

final approach and take-off area light, white, parallel 230 V/50–60 Hz, electrical appliance class II, power-ups 230 V/50–60 Hz, regulation PSK, single lead (2-core cable) L-823 style 1/5, mobile version