ELECTRONIC SYSTEMS

TLI42

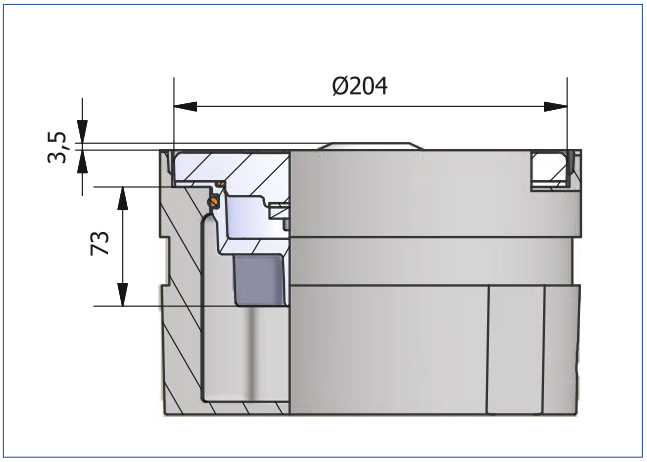
chapter: 5.4.1

Application

- APP - approach centre line and crossbars light
- FATO - final approach and take-off light
  * usable as aiming point lights
- FPAG - flight path alignment guidance lighting
- RWY - omnidirectional runway edge light, medium/low intensity
- SBL - omnidirectional stop bar and no-entry bar light for RVR ≥350 m
- SMG - aircraft stand manoeuvring guidance light
- TCL - omnidirectional taxiway centre line light for RVR ≥350 m
- THREND - threshold/runway end light medium/low intensity
- TLOF - touchdown and lift-off area light
- TWY - taxiway edge light

Classification

- FAA AC 150/5345-46: Class 2, Mode 1, Style 3
- IEC TS 61827: Style 4



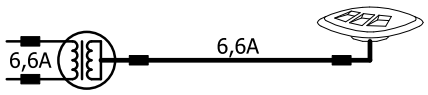
Accordance with

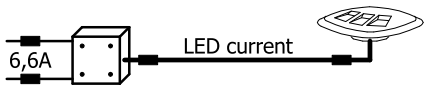
- ICAO Annex 14, Vol. 2
  Figure 5-11, Illustration 5/6
- ICAO Annex 14, Vol. 1
  Figure A2-15/16
- IEC 61827
- EASA CS-ADR-DSN
  Figure U-19/20
- FAA AC 150/5345-46*
  L-852T, L-852E, L-861
  * photometrically compatible

Properties

- extremely low protrusion: 3,5 mm
- small size: diameter 204 mm (8")
- installation depth in base: 73 mm
- simple and durable aluminum design
- long-term optical stability due to the usage of LED technology
- non-glued easily replaceable prisms
- effective maintenance due to many common parts with TLI42 and TLI43
- easy transport and handling due to small size and weight
- available also with 4 fixing holes
- can be manufactured to mate with shallow bases with axial sealing

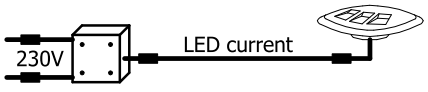
Series supply





separate power supply
unit 130×130×90 mm

Parallel supply



separate power supply
unit 130×130×90 mm

Mechanical parameters

- weight (cardboard box) ~3,0 kg
- dimensions (cardboard box) 220×220×115 mm

chapter:

5.4.1 TLI42

Resistance to

- temperature -55 ÷ +55 °C and thermal shock
- humidity, snow, ice and water, watertight IP68
- salt fog, solar and UV radiation
- static and shear load according to the IEC TS 61827
- vibrations 20 ÷ 2 000 Hz with acceleration 10/15 G

Power source

- isolating transformer with 6,6 A on secondary output (transformer power according to used lamp)
- suitably designed 230 V AC supply with the type of luminance control
- integrated power supply (excluding HAPP)
- separate power supply unit for HAPP lights (optional for other types)

Light source

- LED

SKU **TLI420-SMG -Y -15 /P1 -H**
TLI420-THREND -GR -20 -A

light fixture function
APP - approach centre line and crossbars light
FATO - final approach and take-off light
FPAG - flight path alignment guidance lighting
HAPP - heliport approach steady burning lights
RWY - omnidirectional runway edge light
SBL - omnidirectional stop bar and no-entry bar light for RVR ≥350 m
SMG - aircraft stand manoeuvring guidance light
TCL – omnidirectional taxiway centre line light for RVR ≥350 m
THREND- threshold/runway end lights, medium/low intensity
TLOF – touchdown and lift–off area light
TWY – taxiway edge light

color
B - blue | G - green | R - red | W - white | Y - yellow | X - none/blinded
* TCL, RWE, THREND - combination of 2 colors is possible
* SMG - color outside ICAO specifications, if requested

light power [VA]
TLOF 14/P1
FATO 23/P1
HAPP 75/P1

/ power-ups
* 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

other specifications
* code for „other specification“ must be written in alphabetical order
A - shallow bases with axial sealing
H - 4 fixing holes
SPC - on-demand specification

Note:
- spaces in examples above used for clarity only
- optional parameters used only if necessary

Ordering code examples:

TI420-TLOF-G	-/P1	omnidirectional LED final approach and take-off light, green, parallel power-ups 230 V (regulation "PSK" 10/30/100 %)
TI420-TWY-B		omnidirectional LED taxiway edge light, blue, series power supply system 6,6 A
TI420-SMG-Y		omnidirectional LED aircraft stand manoeuvring guidance light, yellow, series