

### ➔Application

- END - runway end light (low/medium intensity)
- EREX - enhanced rapid exit taxiway centre line light
- REL - runway entrance light
- RGL - runway guard light (low intensity, configuration B)
- SBL - stop bar and no-entry bar light (straight section)
- TCL - taxiway centre line light (straight section, can also be used as runway turn pad lights)
- THR - runway threshold light (low/medium intensity)
- THREND - threshold/runway end light (low/medium intensity)

### ➔Classification

- FAA AC 150/5345-46: Class 2, Mode 1\*, Style 3
- IEC TS 61827: Style 3
- \* does not apply to 20 W/2,2 A bulbs

### ➔Accordance with

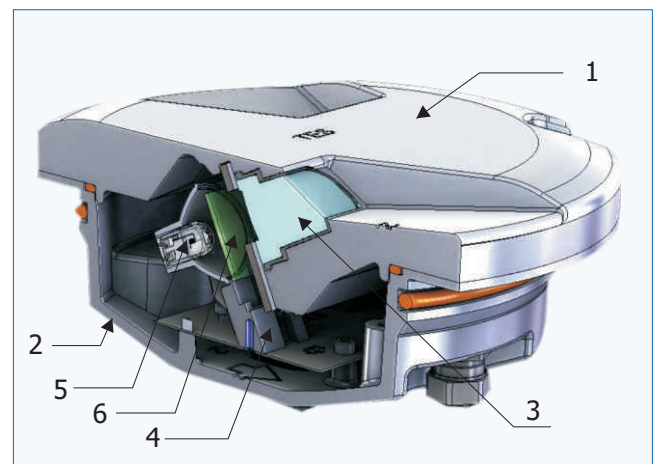
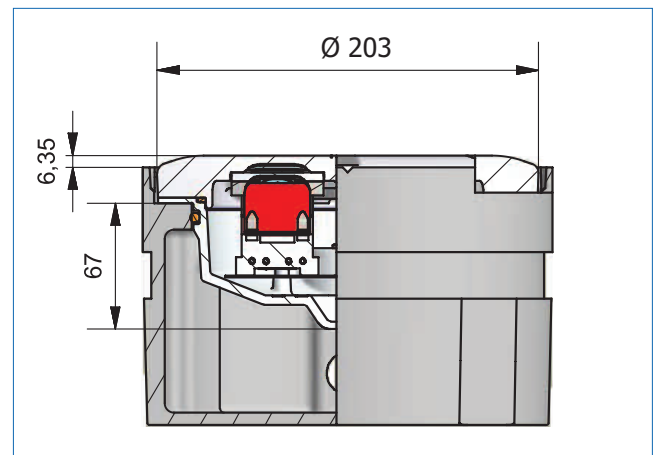
- ICAO Annex 14, Vol. 1  
Figure: A1-1a, A2-12, A2-14 (only REL)
- IEC TS 61827
- EASA CS-ADR-DSN  
Figure: U-1, U-16
- TP312  
Figure: B-12, B-24(b)
- AP-170  
6.1.6.4, 6.1.7.4
- АП-170, Том II

### ➔Properties

- very low protrusion: 6,35 mm
- small size: diameter 203 mm (8")
- installation depth in base: 67 mm
- simple and durable aluminum design
- long-term optical stability due to the usage of cold mirror reflector lamps
- non-glued easily replaceable prisms
- effective maintenance due to many common parts of TI44 and TI45 series
- easy transport and handling due to small size and weight
- available also with 4 fixing holes
- TCL lights can be fitted with a 20 W / 2,2 A bulb (except for lights with blue filters)
- for alternate parallel taxiway line the lights can be fitted with blue filters

### ➔Mechanical parameters

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



### ➔Construction

1. aluminium body - top part
2. aluminium body - bottom part
3. prism with gasket (sealing)
4. lamp holder
5. cold mirror reflector lamp
6. dichroic filter

chapter:

## 5.2.5

## TI44



## → 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, recurrent mechanical and hydraulic impact according to the IEC TS 61827
- vibrations 20 ÷ 2 000 Hz with acceleration 10/15 G

## → Light source

- standard airfield cold mirror reflector halogen 6,6 A lamp
  - Ø 50 mm, 6,6 A
  - Ø 35 mm, 6,6 A
  - Ø 35 mm, 2,2 A

## → Power source

- isolating transformer with 6,6 A or 2,2 A on secondary output (transformer power according to used lamp/lamps)

## Ordering code

TI441-SBL -R -40 -H  
TI443-TCL -GY -2×40

## light fixture group

- 1 - unidirectional (EREX, REL, SBL, TCL)
- 2 - bidirectional (EREX, SBL, TCL)
- 3 - bidirectional, separate power leads (EREX, SBL, TCL)

## light fixture function

- END - runway end light
- EREX - enhanced rapid exit taxiway centre line light
- REL - runway entrance light
- RGL - runway guard light (low intensity, configuration B)
- SBL - stop bar and no-entry bar light (straight section)
- TCL - taxiway centre line light (straight section)
- THR - runway threshold light
- THREND - threshold/runway end light

## beam color

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

## lamp power/power system

- 30 - END, THR, THREND
- 40 - RGL, SBL, TCL
- 105 - EREX, REL
- 20/S2 - RGL, TCL (except blue variants)

## other specifications

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

H - 4 fixing holes

SPC - on-demand specification

## Note:

- spaces in examples above used for clarity only
- optional parameters used only if necessary
- lamp power is optional part of ordering code, if the power supply system is not used, the light is designed for airfield series power supply system 6,6 A
- for EREX lights is first specified color for EREX direction

## Ordering code examples :

## TI441-SBL-R-H

unidirectional stop bar and no-entry bar lights (straight section), red, 40 W / 6,6 A, 4 fixing holes

## TI442-TCL-YG-2×20/S2

bidirectional taxiway centre line lights (straight section), green yellow, 20 W / 2,2 A, common power leads

## TI443-EREX-YG-105+40

bidirectional enhanced rapid exit taxiway centre line lights, yellow in EREX direction, green in TCL direction, 105 W EREX, 40 W TCL, separate power leads (2 inlets)

**→ Certified types according to UCL CR**

TI441-END-R-30		
TI441-EREX-G-105	TI441-EREX-Y-105	
TI442-EREX-GG-105+40	TI442-EREX-GY-105+40	
TI443-EREX-GG-105+40	TI443-EREX-GY-105+40	
TI441-SBL-R-40	TI442-SBL-RR-2×40	TI443-SBL-RR-2×40
TI441-TCL-G-40	TI441-TCL-Y-40	
TI442-TCL-GG-2×40	TI442-TCL-GY-2×40	
TI443-TCL-GG-2×40	TI443-TCL-GY-2×40	
TI441-THR-G-30	TI442-THREND-GR-2×30	TI443-THREND-GR-2×30

chapter:

**5.2.5****TI44**

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