

Application

- SBL - stop bar and no-entry bar light (curved section)
- TCL - taxiway centre line light (curved section)

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

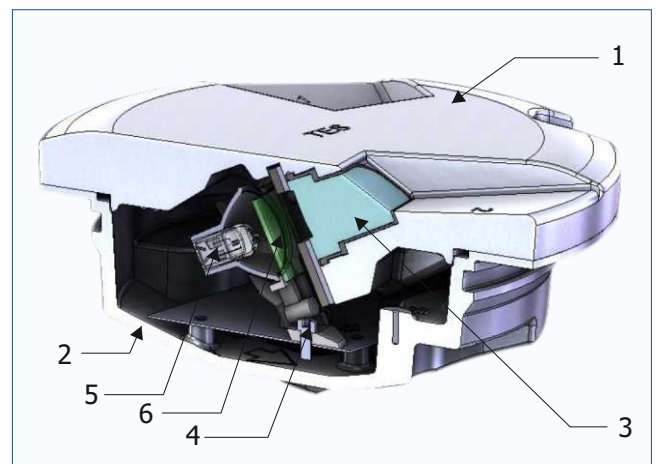
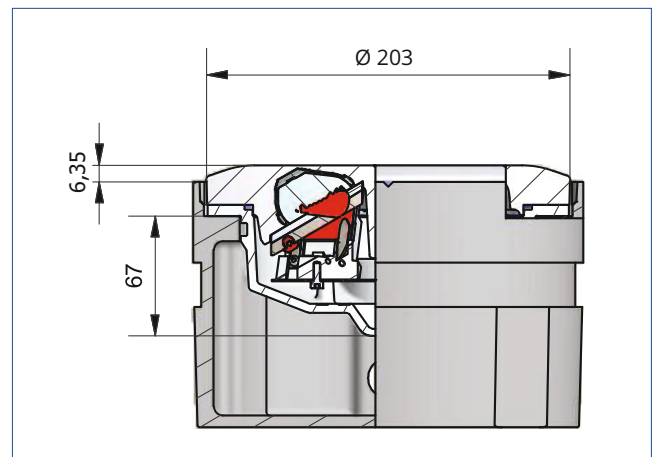
- ICAO Annex 14, Vol. 1
Figure: A1-1a, A2-14 (without REL)
- IEC TS 61827
- EASA CS-ADR-DSN
Figure: U-1, U-18
- TP312
Figure: B-14
- АП-170, Том II

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

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TI45

**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

Power source

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

Light source

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

Ordering codes

	TI451-SBL/L	-R	-40	-H
light fixture group	TI453-TCL	-GY	-2×40	
1 - unidirectional (SBL, TCL)				
2 - bidirectional (SBL, TCL)				
3 - bidirectional, separate power leads (SBL, TCL)				
light fixture function				
SBL - stop bar and no-entry bar light (curved section)				
TCL - taxiway centre line light (curved section)				
toe-in (L/R defined for first specified color)				
toe-in is mandatory only for unidirectional lights				
/L - left toe-in				
/R - right toe-in				
beam color				
B - blue G - green R - red Y - yellow				
lamp power/power system				
40 - SBL, TCL				
20/S2 - 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:

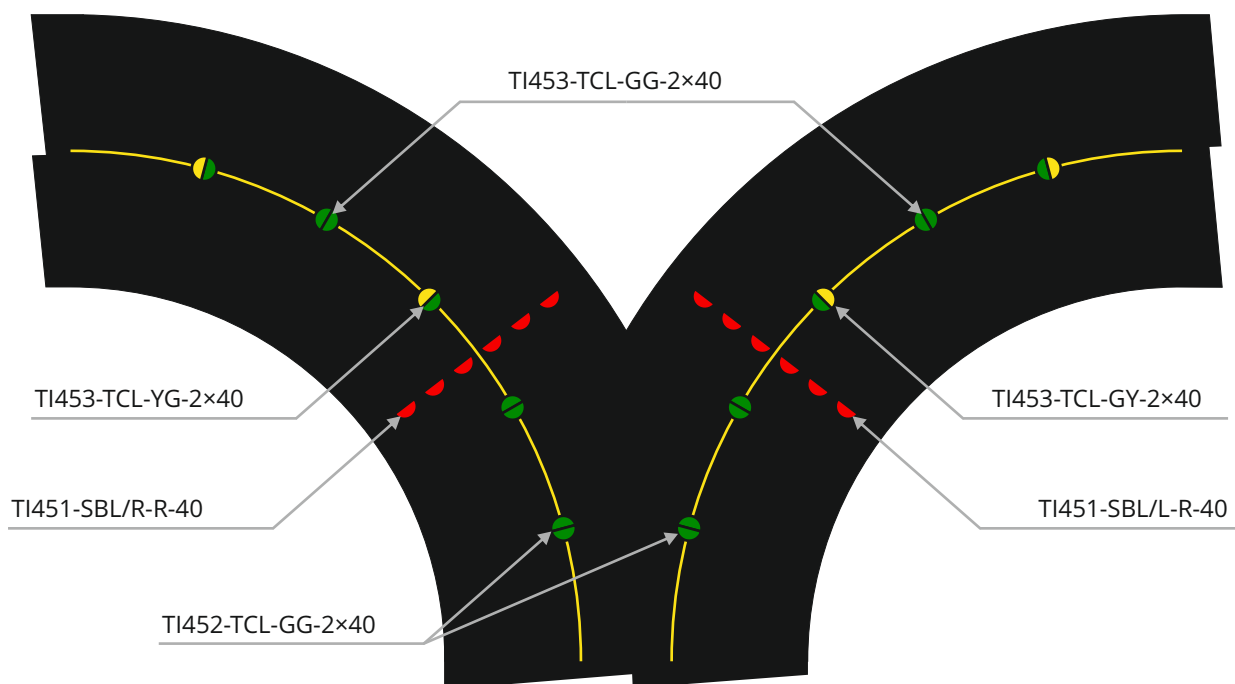
- spaces in examples above used for clarity only
- optional parameters used only if necessary
- lamp power is optional part of ordering code, if the power supply system is not used, the light is designed for airfield series power supply system 6,6 A

Ordering code examples:

TI451-SBL-R-H	unidirectional stop bar and no-entry bar lights curved section, red, 40 W / 6,6 A, 4 fixing holes
TI452-TCL-YG-2×20/S2	bidirectional taxiway centre line lights curved section, green/yellow, 20 W / 2,2 A, common power leads
TI453-TCL-GG	bidirectional taxiway centre line lights curved section, green/green, 40 W / 6,6 A, separate power leads (2 inlets)

Toe-in

- the axis of the shallow base must be oriented along the tangent axis of the taxiway at the location of each lamp



Certified types according to UCL CR

TI451-SBL/L-R-40	TI451-SBL/R-R-40	
TI452-SBL-RR-2x40	TI453-SBL-RR-2x40	
TI451-SBL/L-G-40	TI451-SBL/R-G-40	
TI451-SBL/L-Y-40	TI451-SBL/R-Y-40	
TI452-SBL-GG-2x40	TI452-SBL-GY-2x40	TI452-SBL-YG-2x40
TI453-SBL-GG-2x40	TI453-SBL-GY-2x40	TI453-SBL-YG-2x40

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