

Application

- RCL - runway centre line light
 - * usable for LAHSO (Land and Hold Short Operations)
- RETIL - rapid exit taxiway indicator light
- TDZ - touchdown zone light
 - * usable for MALS according to the FAA AC (Medium Intensity Approach Lighting System)
- THL - Take-off hold light part of RWSL
 - * usable as RIL (Runway Intersection Lights)
 - * RWSL (Runway Status Lights)

Classification

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

Accordance with

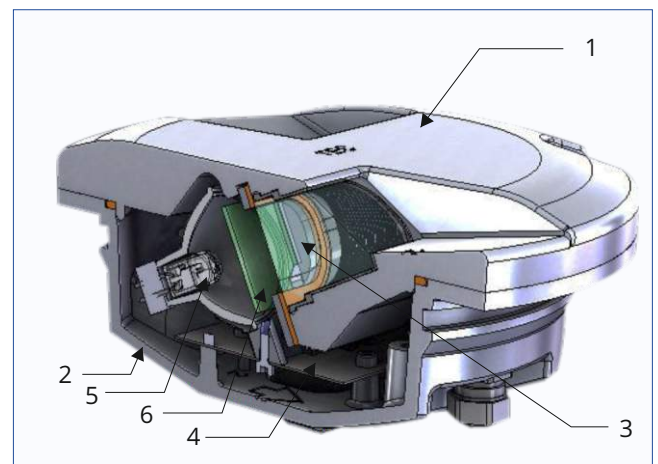
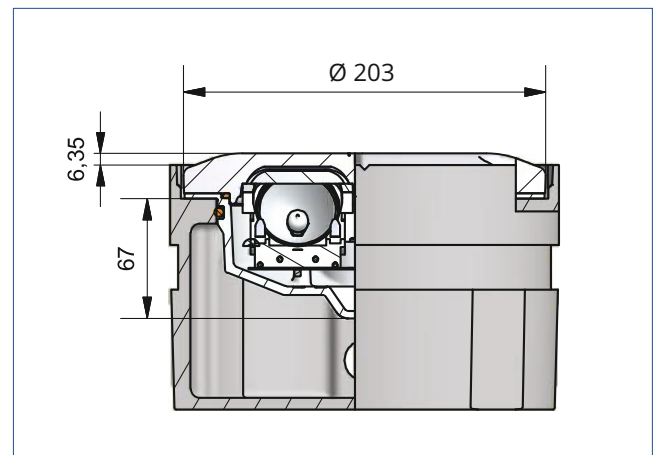
- ICAO Annex 14, Vol. 1
Figure: A1-1a, A2-5, A2-6, A2-7 Cat III, A2-26
- IEC TS 61827
- EASA CS-ADR-DSN
Figure: U-1, U-10, U-11 Cat III
- TP312
Figure: B-5, B-7, B-24(a)
- FAA AC 150/5345-46E*
L-850A, L-850B, L-850F, L-850T
* photometrically compatible
- АП-170, Tom II

Properties

- low protrusion: 6,35 mm
- small size: diameter 203 mm (8")
- installation depth in base: 67 mm
- low energy consumption due to the optimized optical parameters
- 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 with TI40, TI41, TI70, TI71 and TI72 series
- easy transport and handling due to small size and weight
- available also with 4 fixing holes
- TDZ light available with or without toe-in
- optionally installable with special 8/12" adapter for additional light protection

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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TI41

**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 50 mm diameter airfield cold mirror reflector halogen 6,6 A lamp

Power source

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

Ordering code

	TI411-TDZ/L	-W	-105	-H
	TI412-RCL	-WR	-2×105	
light fixture group				
1 - unidirectional (RCL, RETIL, TDZ, THL)				
2 - bidirectional (RCL)				
3 - bidirectional, separate power leads (RCL)				
light fixture function				
RCL - runway centre line				
RETIL - rapid exit taxiway indicator light				
TDZ - touchdown zone				
THL - take-off and hold light				
toe-in (L/R defined for first specified color)				
/L - left toe-in				
/R - right toe-in				
beam color				
R - red W - white Y - yellow				
lamp power				
105 - RCL unidirectional, RETIL, TDZ, THL				
2×105 - RCL bidirectional				
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

Ordering code examples:

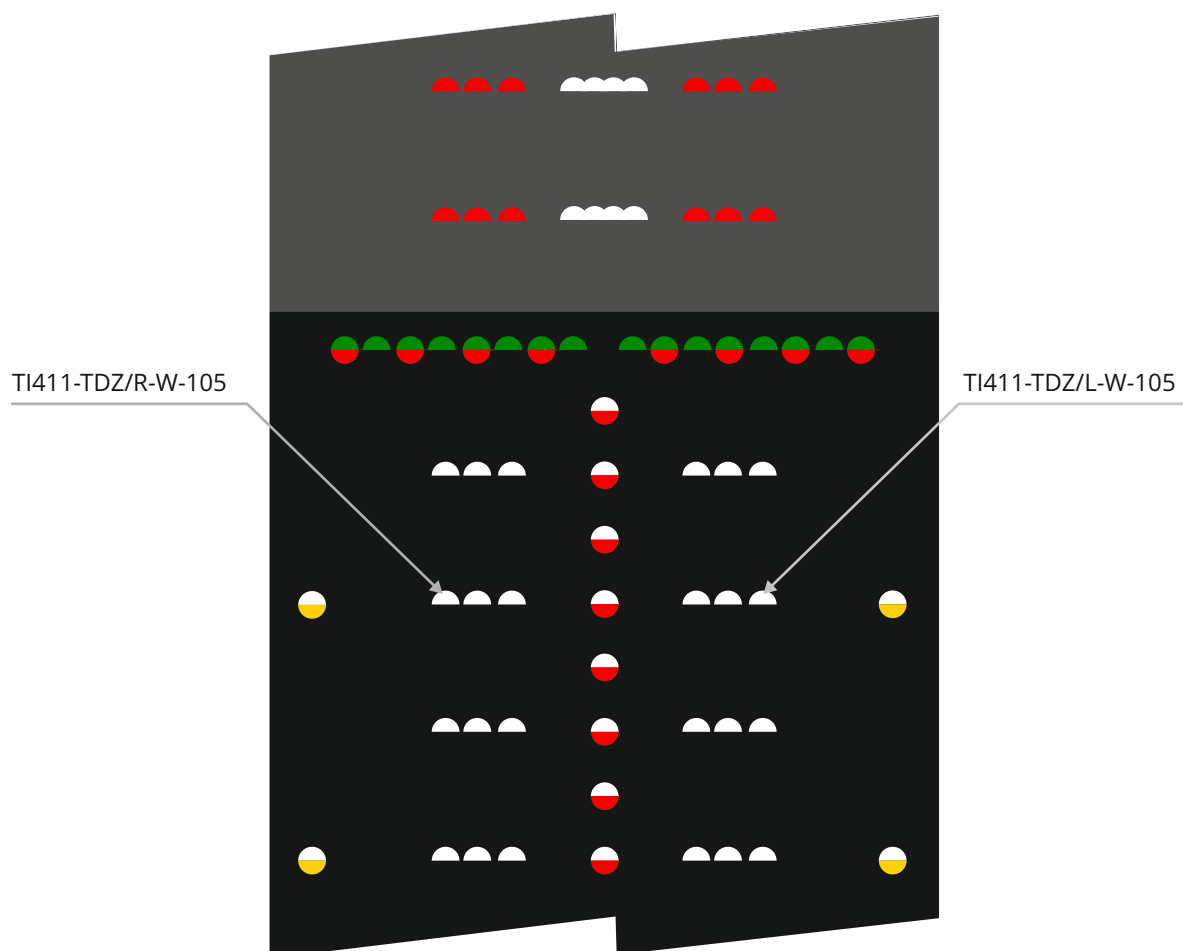
TI412-RCL-WR-H bidirectional RWY centre line light, white/red, 4 fixing holes

TI411-RETIL-Y unidirectional rapid exit taxiway indicator light, yellow

TI411-TDZ/R-W unidirectional touchdown zone light, right toe-in (in the direction of the beam), white

Toe-in

- applies when using shallow bases installed parallel to the RWY centerline
- when using shallow bases installed with toe-in to the RWY centerline, lights without toe-in shall be used

**Certified types according to UCL CR**

TI411-RCL-W-105
 TI412-RCL-WW-2×105
 TI413-RCL-WW-2×105
 TI411-RETIL-Y-105
 TI411-TDZ-W-105

TI4111-RCL-R-105
 TI412-RCL-WR-2×105
 TI413-RCL-WR-2×105

TI411-TDZ/L-W-105

TI411-TDZ/R-W-105

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