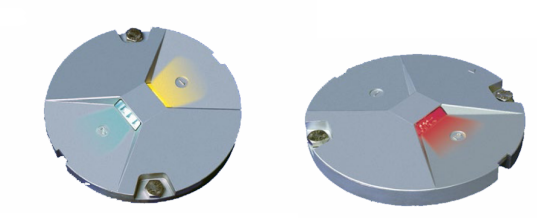
Taxiway Centerline and Stopbar

Low protrusion inset Light 8-inch



Compliance with Standards (current Versions)

FAA	AC150/5345-46, L852-A and L852-C for photometry
ICAO	Annex 14, Vol. I
EASA	CS-ADR-DSN
NATO	STANAG 3316 for design
Canada	TP312
China	CCAR-137CA-R2
Australia	MOS 139

Uses

Inset Taxiway lights used as:

- Centerline lights, in straight and curved sections and on rapid exit taxiways
- Stopbar lights
- Intermediate holding position lights
- De- / anti-icing facility exit lights
- Apron lead-in lights
- Runway guard lights where applicable at night

Features & Benefits

Full range of bi-directional, single and dual lamp (alternately switchable) or uni-directional, single lamp, 8-inch diameter inset lights covering all taxiway applications.

Efficiency

- Optimal and uniform light pattern for both, 1 and 2 lamp versions.
- Designed and built with simplicity and ease of maintenance in mind.
- Extensive use of aluminum alloys reduces fixture weight and eases handling in the field.
- Prisms are clamped to the cover in a multiple contact points gasket by means of a multi-functional lamp and filter holder. This makes prism replacement by airport maintenance personnel fast and easy. No sealing compound nor resin is required.
- Dichroic filters for high transmissivity.
- No optical adjustment required after replacement of lamp, filter or prism.
- Standard adapter rings for installation on 12" FAA deep or shallow bases.
- Specific rings available to fit mounting bases and seating rings to other standards.
- Installation jig available. Extraction does not require special tools.
- Plug for pressure-testing of fixture after overhaul.

Sustainability

- Extra low profile (6,35 mm) for extended fixture life and improved resistance against snow plows
- Double water barriers seal all possible moisture ingress paths.
- Minimal number of parts, mostly shared in the different applications.
- Lightweight, sturdy, low-energy and environment friendly lighting fixtures (no cadmium plating).
- Smooth outer surface of light cover avoids tire damage and makes light even less sensitive to snowplows.
- Long life, cold mirror halogen lamp(s): 40 W - 6.6 A, nominal lifetime 1500 hours at 6.6 A.
- Finish: Environment-friendly, precision-cast aluminum alloy cover, optical support and inner cover assembly.
- Finish: Passivated, plain stainless steel hardware.

Safety

- Low-temperature lights
- Shallow gully in front of prism windows for sustained optimal light output under heavy rainfall

Accessories

Refer to the TLP inset lights user manual.

Power Supply

- 6.6 A through one or two isolating transformer(s)
- Two or more fittings may be series-connected and fed from a common isolating transformer making use of optional film disc or solid state cut-outs.
- Lamps: 40 W – 6.6 A – cold mirror, prefocused halogen with nominal lifetime of 1500 hours at 6.6 A

Note:

- Refer to the appendix of TLP inset lights user manual for a complete power table and the cable loss formula.
- Refer to the annex section.

Maintenance and Installation

Refer to the TLP inset lights user manual and to the interoperability info for installation in a specific base.

Dimensions and Weight

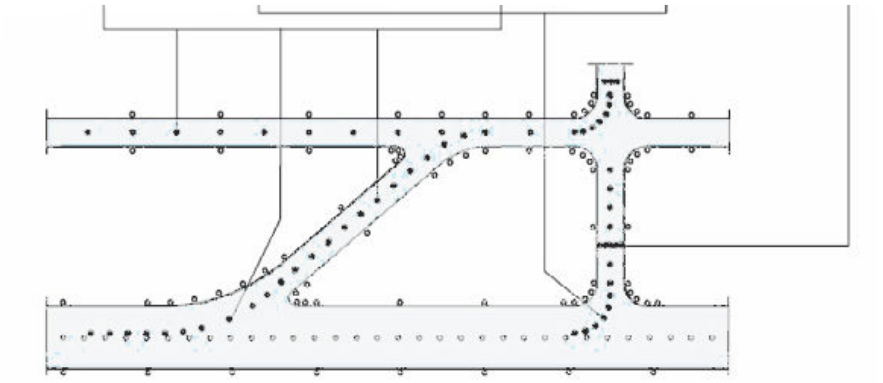
Outer diameter	210 x 210 x 100 mm
	8.3 x 8.3 x 4 in
Weight without packaging	Approx. 2.4 kg
	5.3 lb

Operating Conditions

Operating temperature	-122 to +122 °F / -50 to +50 °C
Storage temperature	-131 to +131 °F / -55 to +55 °C
Relative humidity	Up to 98 % at +77 °F / 25° C

Selection Chart

Use	Taxiway centre line (all applications CAT.I – II – III except stopbar)				Stop bar CAT. I – II – III
Description	uni- or bi-directional 1 lamp in central position		bi-directional 2 lamps one lamp per beam		uni-directional
Type	straight	curved	straight	curved	straight
Filter	green or yellow	green or yellow	green or yellow	green or yellow	red



Ordering Code

1LP□□□□□□□□□

LAMP POWER
1 = 1 x 40 W (uni- & bidirectional, without cut-out)
2 = 2 x 40 W (only bidirectional, without cut-out)
3 = 1 x 40 W (uni- & bidirectional, with cut-out)
4 = 2 x 40 W (only bidirectional, with cut-out)

COLOR LEFT
2 = Red
3 = Green
4 = Yellow
9 = None (prism window in cover not machined)

COLOR RIGHT
2 = Red
3 = Green
4 = Yellow
9 = None (prism window in cover not machined)

BEAM
S = Straight
C = Curved

SUPPLY
1 = 1 plug (1 lamp)
2 = 2 plugs (2 lamps)

0 = FREE DIGIT

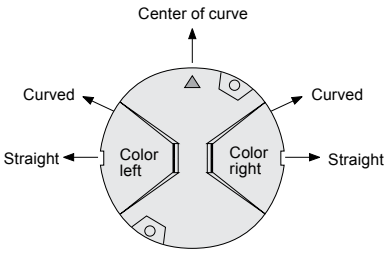
BASE
0 = none
A = With gasket for ERNI Bases

EXECUTIONS
0 = Default

VERSIONS
3 = Without fixing hardware
4 = ADB SG Base compatibility

Note:

- Deep base and / or adapter rings to be ordered separately.
- Color left / color right, only important for curved lights . Red/Red only with one lamp, for use in RVR = 350 m. For stopbar use in RVR < 350 m, order unidirectional lights.
- Do not use 2 lamps with 1 plug. The lifetime of the lamps would be reduced by the higher power dissipated with two lamps on simultaneously. Digit 8 = 2 if digit 4 is 2 or 4.
- Gasket is to be ordered separately, depending on the base.



ANNEX

Fixture type	Fixture load	Isolation transformer			CCR load
		Rating	Loss	Efficiency	
TLP (unidirectional, inset)	40VA	45 W	7 VA	0.85	47 VA
TLP (bidirectional, inset, 1 lamp)	40 VA	45 W	7 VA	0.85	47 VA
TLP (bidirectional, inset, 2 lamps)	2 x 40 VA	2 x 45 W	2 x 7 VA	0.85	2 x 47 VA

Note:

- Extra losses in secondary cables or due to extra equipment (e.g. ILCMS remotes) are not included in above table; these extra losses will result in a higher required size of isolation transformers.
- Extra losses in primary cables are not included in above table; these extra losses will result in a higher required CCR load.
- Efficiency of the secondary transformer depends on the supplier of secondary transformers.

For more information about the product, including manuals and certifications, please see our Product Center on the ADB SAFEGATE website: www.adbsafegate.com.