F-RANGE FTZ

Touchdown Zone unidirectional inset 8-inch



Compliance with Standards (current Versions)

IEC IEC 61827

FAA AC 150 / 5345-46: for mechanical requirements

ICAO Annex 14, Volume I

NATO STANAG 3316

Uses

- · Touch down zone
- · RETIL (Rapid Exit Taxiway Indicator Light)

Features and Benefits

Efficiency

- · Designed and built with simplicity and ease of maintenance in mind
- Extensive use of aluminum alloys limits fixture weight to less than 8 kg to ease handling in the field
- Many components are common to all F-range lights
- Outer prisms mechanically clamped to light cover through molded, replaceable seals: prism replacement by airport maintenance personnel is fast and easy and does not require any sealing compound or resin
- No optical adjustment required after replacement lamp, prism or reflector
- Specific tools have been developed to ease installation and subsequent maintenance
- Plug for pressure-testing of fixture after overhaul

Sustainability

- Lightweight, sturdy, low-energy and environment friendly lighting fixtures (no cadmium plating)
- Normal protrusion (12.7 mm) reduces vibrations induced in aircraft landing gear and in lighting fixture itself, thereby increasing lifetime, particularly for the lamps
- Smooth outer surface of light cover avoids tire damage and makes light less sensitive to snowplows
- Long life halogen lamps: 1500 hours at full intensity, in excess of 4000 hours in practical use
- Low temperature lights: temperature at center of top cover remains below 160 $^{\circ}\text{C}$ ICAO specified limit
- IP67 protected, finish: aluminum alloy cover, inner cover and optical support; plain stainless steel hardware

Note: Standard adapter rings for installation on 12-inch FAA deep bases.

Safety

- Part of a comprehensive range of 8- and 12-inch diameter inset lights covering all aviation ground lighting requirements
- Shallow gully in front of prism windows maintains optimal light output under heavy rainfall

Accessories

Refer to the F-range user manual for 8-inch lights.

Power Supply

6.6 A through one 45 W isolating transformer installed under the light in the base can or in a separate housing.



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Note:

- Refer to the appendix of F-range user manual for 8-inch lights for a complete power table and the cable loss formula.
- · Refer to the annex section.

Maintenance and Installation

Refer to the F-Range user manual for 8-inch lights and to the interoperability info for installation in a specific base.

Dimensions and Weight

Outer diameter / depth Approx. 210 x 210 / 100 mm

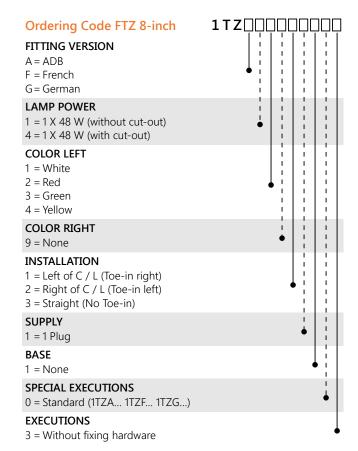
8.3 x 8.3/ 3.9 in

Weight without packaging Approx. 2.7 kg

5.9 lb

Operating Conditions

Operating temperature -58 to +122 °F / -50 to +50 °CStorage temperature -67 to +131 °F / -55 to +55 °CRelative humidity Up to 98 % at +77 °F / 25 °C



Note:

- Deep base and / or adapter rings to be ordered separately.
- Use of a cutout is not compatible with the *Lamp Fault Detection* (*LFD*) functionality of a regulator.



ANNEX

Fixture type	Fixture load	Isolation transformer			CCR load
		Size	Load	Efficiency	
FRC (unidirectional)	48 VA	45 W	9 VA	0.85	57 VA
FRC (bidirectional)	96 VA	100 W	11 VA	0.9	107 VA
FTD (unidirectional)	45 VA	45 W	9 VA	0.85	54 VA
FTD (bidirectional)	90 VA	100 W	10 VA	0.9	100 VA
FTZ (unidirectional)	48 VA	45 W	9 VA	0.85	57 VA

Note:

- Extra losses in secondary cables 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.

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