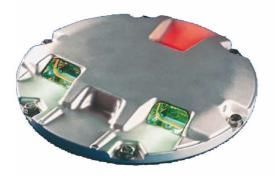
F-RANGE FTE

Combined Threshold and Runway End bidirectional inset 12-inch



Compliance with Standards (current Versions)

IEC	IEC 61827
FAA	AC150 / 5345-46 for mechanical requirements
ICAO	Annex 14, Volume I
EASA	CS-ADR-DSN
NATO	STANAG 3316
Canada	TP312
Australia	MOS139

Uses

- Threshold
- Runway end

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 of lamp or prism
- Specific tools have been developed to ease installation and subsequent maintenance
- Plug for pressure-testing of fixture after overhaul
- Money saver, replaces two unidirectional fittings

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: 1000 hours at full intensity, in excess of 3000 hours in practical use
- Low temperature lights: temperature at center of top cover remains below 160 °C ICAO specified limit
- IP67 protected, finish: aluminum alloy cover, inner cover and optical support; plain stainless steel hardware

A standard adapter ring from 12- inch to 15- / 16- inch is necessary for installation in a 12-inch FAA deep base where it is used as dissipation ring (especially for the high-power fixtures with 3 lamps).

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 12-inch lights.

Power Supply

6.6 A through one 300-W transformer or one 200-W and one 100-W isolating transformer installed under the light in the base can or in a separate housing.

Note: Refer to the appendix of F-range user manual for 12-inch lights for a complete power table and the cable loss formula.

Maintenance and Installation

Refer to the F-Range user manual for 12-inch lights and to the interoperability info for installation in a specific base.

Dimensions and Weight

Outer diameter / depth	Approx. 305 mm / 125 mm
	12 in / 4.9 in
Weight without packaging	Approx.7.5 kg
	5.9 lb



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Operating Conditions

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

Ordering Code FTE 12-inch FITTING VERSION A = ADB F = French G = German	
LAMP POWER 5 = 3 X 105 W (without cut-out) 6 = 3 X 105 W (with cut-out, only if alternately switchable)	•
COLOR LEFT 3 = Green	
COLOR RIGHT 2 = Red	
INSTALLATION 1 = Left of C / L (Toe-in right) 2 = Right of C / L (Toe-in left) 3 = Straight (No Toe-in)	•
SUPPLY 1 = 1 Plug 2 = 2 Plugs 3 = 3 Plugs	•
BASE 1 = None	•
SPECIAL EXECUTIONS 0 = Standard (1TEA 1TEF 1TEG)	•
EXECUTIONS 3 = Without fixing hardware	•

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	
FAP (unidirectional)	315 VA	300 W	35 VA	0.9	350 VA
FED (unidirectional)	105 VA	100 W	19 VA	0.85	124 VA
FED (bidirectional)	210 VA	200 W	23 VA	0.9	233 VA
FEN (unidirectional)	105 VA	100 W	19 VA	0.85	124 VA
FTH threshold (unidirectional)	210 VA	200 W	23 VA	0.9	233 VA
FTH wingbar (unidirectional)	315 VA	300 W	35 VA	0.9	350 VA
FTE (bidirectional)	315 VA	300 W	35 VA	0.9	350 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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