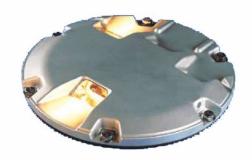
F-RANGE FED

Runway Edge

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

· Runway edge at intersections

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

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 $^{\circ}$ 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 15- / 16-ich diameter FAA deep bases. Specific rings available to fit mounting bases and seating rings to other standards.

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 a 200 W isolating transformer installed under the light in the base can or in a separate housing.

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

16.9 lb

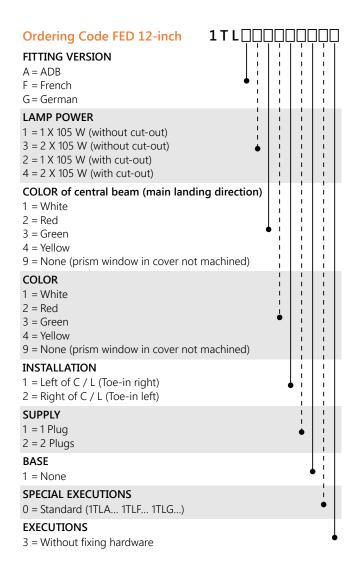


F-RANGE FED

Operating Conditions

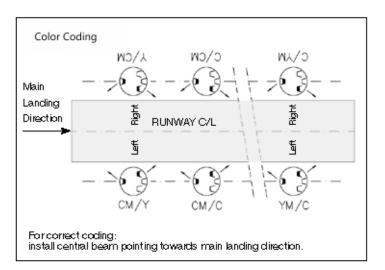
Operating temperature -58 to +122 °F / -50 to +50 °CStorage temperature -67 to +131 °F / -55 to +55 °CRelative humidity Up to 98 % at +77 °F / 25 °C

Note: The light is also available for both 45 and 60 m wide runways. Contact your ADB SAFEGATE sales representative for more information.



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.
- Refer to the color coding scheme.





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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