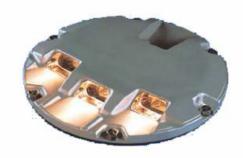
# **F-RANGE FAP**

Approach Centerline, Crossbar and Siderow

unidirectional 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

- · Approach centerline
- · Approach crossbar
- · Approach side row barrette

### **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
- 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:** 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 a 300 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.
- · Refer to the annex section.

## **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.



1

# F-RANGE FAP

# **Dimensions and Weight**

Outer diameter / depth Approx. 305 mm / 125 mm

12jin / 4.9 in

Weight without packaging Approx.7.5 kg

16.9 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

# **Ordering Code FAP 12-inch** 1 T A 🗆 🗆 🗆 🗆 🗆 🗆 FITTING VERSION A = ADBF = French G = German **LAMP POWER** $5 = 3 \times 105 \text{ W}$ (without cut-out) $6 = 3 \times 105 \text{ W}$ (with cut-out, only with 12- to 16-inch adapter ring) **COLOR LEFT** 1 = White 2 = Red**COLOR RIGHT** 9 = None (prism window in cover not machined) 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 Plug3 = 3 Plugs **BASE** 1 = NoneSPECIAL EXECUTIONS 0 = Standard (1TAA... 1TAF... 1TAG...) **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
		Rating	Loss	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 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.

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