atg airports

FX850AP

Runway Approach High intensity lighting solutions

Compliant to Latest International Standards*

- ICAO Annex 14. Vol 1
- FAA AC 150/5345-46†
- FAA Engineering Brief No.67
- TP312
- MOS139
- IEC 61827
- EASA
- Stannag 3316 (NATO)

Applications

CAT II/III all weather operation airfield ground lighting (agl) systems.

* As applicable to the application, compliance with other civil aviation and military regulations confirmed on request

† Electrical/Mechanical/Environmental characteristics only

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Electrical Performance

Main Beam Aperture		Colour	Typical Power Consumption - Watts (VA) @ 6.6A				
				Fitting*		Tx Primary**	
Horiz(°)	Vert(°)		Per Beam Watts nominal	Watts (VA)	PF	Watts (VA)	PF
-10 to +10	0 to 11	WHT/BLK	57/-	57 (58)	0.99	68 (68)	0.99

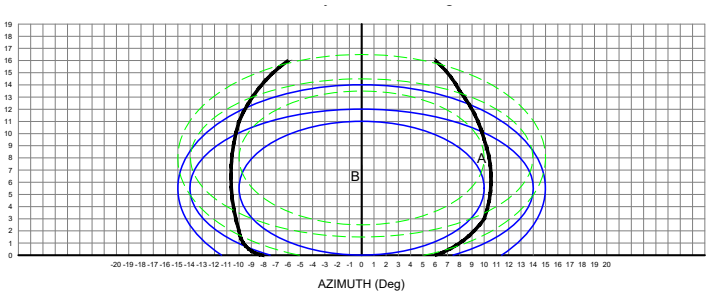
Fixture Operational Current Range: 2.8 to 6.7A RMS

* as measured at the input leads of the fixture.
** as measured across the primary winding of an appropriately sized isolation transformer with a total fixture and transformer secondary length not exceeding ~ 1.85m (72").
*** electrical characteristics measured with 45 watt transformer, fitting can operate from transformers up to 210 watts.
Note: Isolating transformer shall be suitably sized to accommodate specific secondary and other applicable losses.

Photometry

Specification	
Runway Approach ICAO Fig. A2-1	
Colour	White
Max/Min Intensity ratio	<3.0
Main ellipse average intensity	20000cds
Main ellipse minimum intensity	10000cds
Second ellipse minimum intensity	2000cds
Third ellipse minimum intensity	1000cds
Typical Measured Values	
Colour	White
Max/Min Intensity ratio	4.4
Main ellipse average intensity	20827cds
Main ellipse maximum intensity	34041cds
Main ellipse minimum intensity	7632cds
Second ellipse minimum intensity	3261cds
Third ellipse minimum intensity	1632cds

Intensity Chart - Runway Approach Luminaire - White



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Features

Low energy consumption compared with the tungsten halogen equivalent.

Greatly reduced maintenance: calculated MTBF of 75,000 hours at 6.6A.

Operates on the full range of 2.8A to 6.6A on either 3 or 5 step IGBT, ferroresonant or thyristor CCRs that are designed in compliance with IEC or FAA requirements.

Fully dimmable lights, replicating the response curve of traditional halogen lights.

Full compatibility with existing airfield lighting series circuits. Installation on same mounting device as most conventional lights, for a straightforward replacement.

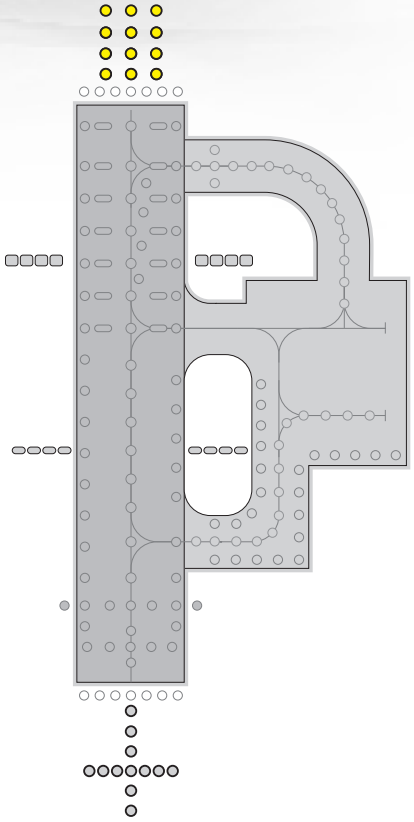
Monitoring function of the individual light arrays for open circuit, short circuit, and over temperature. The LED light automatically disconnects from the secondary side of the isolation transformer, resulting in an open circuit condition.

Low operating temperature, ensuring longer component life.

FAA style 3, ICAO style 4 fixture with a 6.0 mm profile above gradient

L-823 connectors

Integral surge protection



Environmental Conditions

Ambient Temperature	-55 °C to +55°C (-67 °F to +131°F)	Atmospheric Altitude	up to 10,000 feet (3000m)
Storage Temperature	-55°C to +70°C (-67 °F to +158°F)	Relative Humidity	0-100% (sealed unit)

Standards	
EMC protection	Immunity IEC 61000-4 Emission IEC 61000-2
Ingress protection class dust/liquids	IP68 (IEC69598-1)
Vibration resistance	IEC60068-2-6

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Ordering Codes:

FX - 850AP12 - 1 - 0 - W - N - 4 - 1

Application
FX850AP (L) Approch

Beam Type
A Side
1 = Straight

B Side
0 = Not applicable

Colour
A Side
W = White

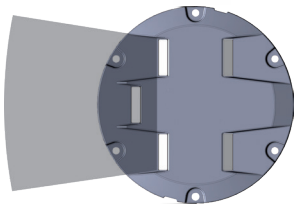
B Side
N = Not alppicable

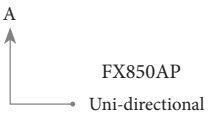
Specification
Refer to front cover

Connections
1 = 1 x Bi-pin plug

Additional optional features may be available upon request

Beam Options





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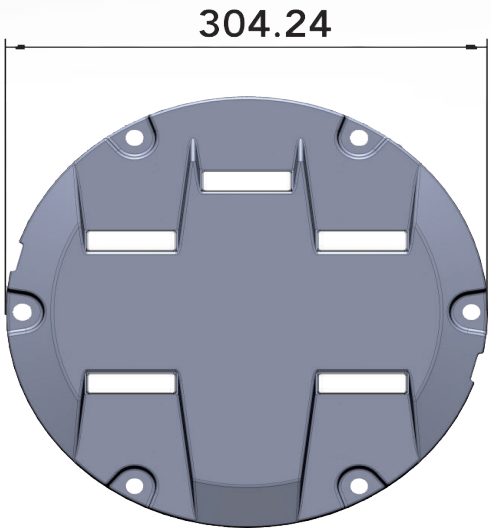
Dimensions



Packaging

- Net weight 8.9Kg
- Gross weight 9.5 (boxed)
- Box 220mm (L) x 220mm (W) x 225mm (H)

weights and dimentions are nominal

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bsi. ISO 9001:2015 Quality Management