



FX850A

Runway Centreline High intensity lighting solutions

Compliant to Latest International Standards^{*}

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

Applications

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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

📞 UK: +44 (0) 1942 68 5555 | USA: +1 (239) 985-9406

L-850A(L)

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Electrical Performance

Main Beam Horiz(°)	Aperture	Colour	Typicc Per Beam Watts nominal	Il Power Consumptio Fitting Watts (VA)		(VA) @ 6.6A Tx Prima Watts (VA)	ry** PF
-5 to +5	0 to 9	WHT/WHT	20.0/20.0	51.27 (51.33)	0.999	61.68 (62.16)	0.992
-5 to +5	0 to 9	RED/WHT	7.50/20.0	37.00 (37.16)	0.995	47.94 (48.73)	0.984
-5 to +5	0 to 9	WHT/BLK	20.0/	27.76 (27.93)	0.993	37.91 (38.85)	0.976
-5 to +5	0 to 9	RED/BLK	7.50/	13.88 (13.92)	0.995	23.89 (24.68)	0.967

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.

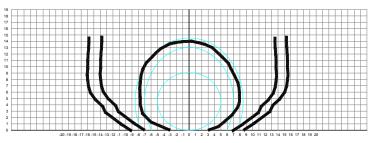
Note: Isolating transformer shall be suitably sized to accommodate specific secondary and other applicable losses.

Photometry

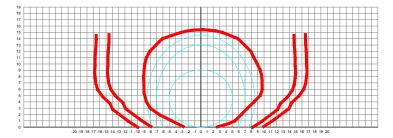
Runway Centre Line ICAO Fig A2-7 FAA L-850A

Colour Max/Min Intensity Ratio Main ellipse average intensity Main ellipse minimum intensity Second ellipse minimum intensity Third ellipse minimum intensity	White <3.0 5000 cds 2500 cds 500 cds 250 cds
Typical Measured Values Colour Max/Min Intensity Ratio Main ellipse average intensity Main ellipse maximum intensity Main ellipse minimum intensity Second ellipse minimum intensity Third ellipse minimum intensity	White 2.2 5800 cds 7400 cds 3300 cds 2300 cds 1600 cds
Specification Colour Max/Min Intensity Ratio Main ellipse average intensity Main ellipse minimum intensity Second ellipse minimum intensity Third ellipse minimum intensity	Red <3.0 750 cds 375cds 75 cds 37.5 cds
Typical Measured Values Colour Max/Min Intensity Ratio Main ellipse average intensity Main ellipse maximum intensity Main ellipse minimum intensity Second ellipse minimum intensity	Red 2.2 1050 cds 1250 cds 560 cds 460 cds

Intensity Chart - Runway Centre Line Luminaire - White



Intensity Chart - Runway Centre Line Luminaire - Red



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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 3.5 mm profile above gradient

L-823 connectors

Integral surge protection

Environmental Conditions

- ▶ Ambient Temperature -55 °C to +55°C (-67 °F to +131°F)
- ▶ Storage Temperature -55°C to +70°C (-67 °F to +158°F)

- Atmospheric Altitude up to 10,000 feet (3000m)
- ▶ Relative Humidity 0-100% (sealed unit)

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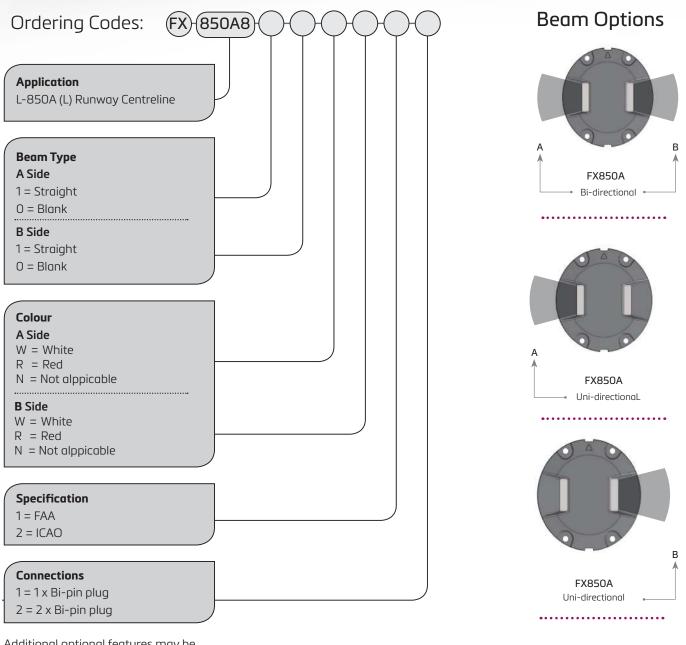
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Standards	
EMC protection	Immunity IEC 61000-4 Emission IEC 61000-2
Ingress protection class dust/liquids	IP68 (IEC69598-1)
Vibration resistance	IEC60068-2-6

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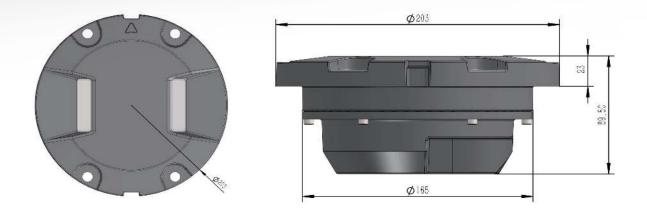


Additional optional features may be available upon request

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Dimensions



Packaging

- Net weight 2.5Kg
- ▶ Gross weight 2.9 (boxed) ▶ Box 220mm (L) x 220mm (W) x 225mm (H)

weights and dimentions are nominal



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atg airports reserve the right to change technical data and details at any point in time. Errors may have occured

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