FX852C
Taxiway centreline
Straight sections
Narrow beam
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
CAT II/III all weather operation airfield ground lighting systems.

* As applicable to the application, compliance with other civil aviation and military regulations confirmed on request
† Electrical/Mechanical/Environmental characteristics only
**Electric Performance**

<table>
<thead>
<tr>
<th>Main Beam Aperture</th>
<th>Colour</th>
<th>Per Beam Watts nominal</th>
<th>Typical Power Consumption - Watts (VA) @ 6.6A</th>
<th>Fitting</th>
<th>Fitting**</th>
<th>Watts (VA)</th>
<th>PF</th>
<th>Watts (VA)</th>
<th>PF</th>
</tr>
</thead>
<tbody>
<tr>
<td>-3.5 to +3.5</td>
<td>1 to 8</td>
<td>GRN/GRN</td>
<td>3.0/3.0</td>
<td>14.60 (14.69)</td>
<td>0.991</td>
<td>23.76 (24.66)</td>
<td>0.965</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-3.5 to +3.5</td>
<td>1 to 8</td>
<td>YEL/YEL</td>
<td>4.5/4.5</td>
<td>15.88 (16.05)</td>
<td>0.992</td>
<td>25.50 (26.34)</td>
<td>0.969</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-3.5 to +3.5</td>
<td>1 to 8</td>
<td>GRN/YEL</td>
<td>3.0/4.5</td>
<td>15.85 (15.94)</td>
<td>0.993</td>
<td>25.30 (26.19)</td>
<td>0.968</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-3.5 to +3.5</td>
<td>1 to 8</td>
<td>GRN/BLK</td>
<td>3.0/----</td>
<td>9.89 (9.92)</td>
<td>0.995</td>
<td>19.15 (19.91)</td>
<td>0.959</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-3.5 to +3.5</td>
<td>1 to 8</td>
<td>YEL/BLK</td>
<td>4.5/----</td>
<td>11.32 (11.54)</td>
<td>0.995</td>
<td>20.65 (21.60)</td>
<td>0.965</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

**Photometry**

**Specification**

**Taxiway Centreline - Straight Narrow ICAO Fig A2-13 FAA L-852C**

- Colour: Green
- Max/Min Intensity Ratio: <3.0
- Main rect. average intensity: 200 cds
- Main rect. minimum intensity: 100 cds
- Second rect. minimum intensity: 20 cds

**Typical Measured Values**

**Taxiway Centreline - Straight (Narrow) Green**

- Colour: Green
- Max/Min Intensity Ratio: 2.59
- Main rect. average intensity: 400 cds
- Main rect. maximum intensity (A): 512 cds
- Main rect. minimum intensity (B): 197 cds
- Second rect. minimum intensity: 120 cds

**Specification**

**Taxiway Centreline - Straight (Narrow) Yellow**

- Colour: Yellow
- Max/Min Intensity Ratio: <3.0
- Main rect. average intensity: 200 cds
- Main rect. minimum intensity: 100 cds
- Second rect. minimum intensity: 20 cds

**Typical Measured Values**

**Taxiway Centreline - Straight (Narrow) Yellow**

- Colour: Yellow
- Max/Min Intensity Ratio: 1.96
- Main rect. average intensity: 462 cds
- Main rect. maximum intensity (A): 584 cds
- Main rect. minimum intensity (B): 299 cds
- Second rect. minimum intensity: 228 cds
FX852C  LED Inset Taxiway centreline straight (Narrow)
High intensity lighting solutions

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)

Standards

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMC protection</td>
<td>Immunity IEC 61000-4</td>
</tr>
<tr>
<td></td>
<td>Emission IEC 61000-2</td>
</tr>
<tr>
<td>Ingress protection class dust/liquids</td>
<td>IP68 (IEC69598-1)</td>
</tr>
<tr>
<td>Vibration resistance</td>
<td>IEC60068-2-6</td>
</tr>
</tbody>
</table>

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FX852C LED Inset Taxiway centreline straight (Narrow)
High intensity lighting solutions

Ordering Codes: FX852C8

Application
L-852C(L) Taxiway Centreline
Straight (narrow)

Beam Type
A Side
4 = Straight (narrow)
0 = Blank

B Side
4 = Straight (narrow)
0 = Blank

Colour
A Side
G = Green
Y = Yellow
C = Cyan/Green
N = Not applicable

B Side
G = Green
Y = Yellow
C = Cyan/Green
N = Not applicable

Specification
1 = FAA
2 = ICAO

Connections
1 = 1 x Bi-pin plug
2 = 2 x Bi-pin plug

Additional optional features may be available upon request
FX852C LED Inset Taxiway centreline straight (Narrow)
High intensity lighting solutions

Dimensions

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

Packaging

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

Weights and dimensions are nominal.