Combined Threshold / End Light
Datasheet

LED AGL
Airfield Ground Lighting
Power, Control and Monitor System
General

Our high-efficient LED inset lights meet the highest requirements in design and construction. The installation height of 6.3 mm reduces the attack surface for cleaning machines and snow ploughs. The use of shatter-proof and scratch-resistant glass as well as a high temperature resistance range guarantee a long lifetime. All our products have been certified with IP 68. The risk of damage is greatly reduced and therefore a significant reduction of maintenance costs and material consumption can be achieved. The light output is infinitely variable and moreover, there is a wide range of possible colours.

Combined Threshold / End Light

Benefits

• Reduced CO2 emission by up to 85 %
• Up to 50,000 hrs LED service life
• Reduce maintenance and repair by up to 70 %
Features

- 12˝ outer diameter
- 6.3 mm height above surface
- Depth below flange: 50 mm
- 4 Light outlets (each 40 mm x 6 mm)
- Dust and Water tightness: IP 68
- Overall lifetime*) up to 20 years
- Useful Lamp life** (LED) up to 50,000 h
- Chromaticity Coordinates according to ICAO Annex 14, Vol.1 Appendix 1 or FAA AC 150 / 5345-46D
- Nominal Current: 6.6 A (0 – 100 %)
- Power consumption (@6.6 A):
  - green: 35 W per side
  - red: 40 W per side
  - \( U_{\text{max}} \) (100 %): 1.9 V
  - \( U_{\text{min}} \) (0.1 %): 1.0 V
- Power factor > 95 % at nominal current
- Fail /open functionality using a series transformer with a power rating of up to 100 W
- Temperature**: -55°C (-67 F) / +85°C (+185 F)
- Internal serial interface for diagnostics and parameterization
- Fail-Open Function (optional)
- De-icing kit (optional)
- Sapphire coated prism (optional)
- Integrated single lamp control (optional)

*) Apart from wear parts
** Based on 24 h cycle: 8 h @55 °C Air temperature + 1kW/m² solar radiation /16 h @25 °C
*** Measured on cover surface

Standards

- FAA AC 150 / 5345-46D
- Engineering brief No. 67D
- IEC TS 61827
- NATO: STANAG 3316

Variants

- Bidirectional
- L-850 D
- Toe-in left
- Toe-in right

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Colours

- green / red

Light distributions

<table>
<thead>
<tr>
<th>Threshold Light, L-850 D</th>
<th>Runway End Light, L-850 D</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Threshold Light Diagram" /></td>
<td><img src="image2" alt="Runway End Light Diagram" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>FAA min. average (cd)</th>
<th>FAA min. (cd)</th>
<th>TKH Measured (cd)</th>
<th>TKH Measured (cd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>FAA</td>
<td>3300</td>
<td>1650</td>
<td>5431</td>
<td>-</td>
</tr>
<tr>
<td>TKH</td>
<td>(cd)</td>
<td>(cd)</td>
<td>(cd)</td>
<td>(cd)</td>
</tr>
<tr>
<td>Red</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAA</td>
<td>2500</td>
<td>1250</td>
<td>3155</td>
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<tr>
<td>TKH</td>
<td>(cd)</td>
<td>(cd)</td>
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</table>

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**Chromaticities**

![Chromaticities Chart]

**Technical Drawings**

![Technical Drawings]

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Components

Uni-directional straight variant

1. Cover (drop forced AL, anodised)
2. 4 x power LED module 1
3. High power LED module 2
4. Prism (borosilicate glass)
5. Sealing aperture (Fluor silicate)
6. Sealing (Fluor silicate)
7. Electronics
8. Housing (AlSi10Mg, die-cast, anodized)
9. FAA L-823 plug: one plug / two plugs

Accessories

- 12” Shallow Base
- Installation Jig for 12”
- Transformer

Packing data

<table>
<thead>
<tr>
<th>Variant</th>
<th>Dimensions (L x W x H) in mm</th>
<th>Gross weight in kg</th>
<th>Net. weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>12” Fixture</td>
<td>304.8 x 304.8 x 82.4</td>
<td>6.8</td>
<td>5.8</td>
</tr>
<tr>
<td>12” Shallow Base</td>
<td>320 x 320 x 150</td>
<td>7.5</td>
<td>7.1</td>
</tr>
</tbody>
</table>

Ordering code

Please download our configuration tool at: [https://www.tkh-airportsolutions.com/airfield-products/](https://www.tkh-airportsolutions.com/airfield-products/) or scan:
Company profile:

TKH Airport Solutions is a provider of a comprehensive range of Airfield Ground Lighting products. It includes powerful, highly reliable top of the range LED lighting products as well as future-proof technologies to better power and communicate with your LED lights. With our CEDD-AGL solution, we seamlessly integrate the needs of airports with new airfield network technology.

More information:

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