Runway Guard Light LED High Intensity
Datasheet
General

The construction of our elevated lights are based on innovative LED technology. The flexible product concept allows an easy adaption of the products into existing structures of airport lighting – simply by replacing existing halogen lights. The use of shatter-proof and scratchresistant glass as well as a high temperature resistance range guarantee a lifetime of 20 years. All our products have been certified with IP 65. The risk of damage is greatly reduced and therefore a significant reduction in maintenance costs and material consumption can be achieved. Shape, size and weight have a positive impact on the wind load and in addition, the lights offer a high-resistance to the plane’s jet wash and provide ideal illumination even under difficult conditions. All elevated lights are also available in halogen.

Runway Guard Light
Description

General
Runway guard light system type 921-LED, is designed in accordance with ICAO, Annex 14, Vol. 1, 5.3.20 for use in configuration A as elevated marking of Runway / Taxiway intersections. Maximum intensity according to ISO candela diagram fig. 2.24 with less than 3 W / LED. Input for 10, 30 or 100 % light intensity output. Light weight construction with no heavy parts, above ground level.

Light Fitting
The fittings are constructed mainly by using standard components from TKH Airport Solution’s standard program of elevated fittings. Each fitting has two light systems. Each light system is unidirectional, yellow light. Each light system can be individual adjusted for toe-in and elevation. The fitting has a breakable coupling, designed for 2” (60 mm) stake mounting (Type C) or with 2” thread stub (Type A). The light fixture is designed for an expected life-time for the LED’s of 50,000 hours.

Features
- Design conforms to all environmental conditions of FAA-E-982.f
- Front glass according to FAA spec. CAA-1199a
- Extremely easy levelling and adjustment due to patented balljoint
- The shape, the small size and weight (13.5 kg – 6lb) are favourable features in respect to windload and blast
- The outside surface of the glass is smooth and need no cleaning
- no adjustment after relamping
- Only fully corrosion proof components are used
- Finished in stove enamel aviation yellow

Application
Runway guard light systems (WIG-WAG) are used where intersections between Runway / Taxiway must be clearly marked. A system consists of two elevated fittings, unidirectional, yellow light each controlled by a Flash unit. The light is flashing with app. 45 flashes per minute. The RGL unit can be supplied with an additional omnidirectional light in white, also with LED, as position marker.

Application
Runway guard light systems (WIG-WAG) are used where intersections between Runway / Taxiway must be clearly marked. A system consists of two elevated fittings, unidirectional, yellow light each controlled by a Flash unit. The light is flashing with app. 45 flashes per minute. The RGL unit can be supplied with an additional omnidirectional light in white, also with LED, as position marker.
Mounting Devices

TKH elevated light fixtures can be delivered with various types of breakable couplings:

- **Type A**: With 2” thread  
  (European standard thread or 11,5 NPT or NPS)
- **Type C**: For 2” pole mounting  
- Customer deigned couplings

TKH breakable coupling is calculated and tested to break at 64 Kgm ± 4 Kgm which is in accordance FAA AC 150 / 5345-46B, sect 3.4.2.1.

Specifications

<table>
<thead>
<tr>
<th>Input</th>
<th>230 V - 50 Hz, max 25 VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>App. 45 flashes per minute per lamp</td>
</tr>
<tr>
<td>Finish (Fitting)</td>
<td>Stove enamel aviation yellow, Ral -1028</td>
</tr>
<tr>
<td>Breakable coupling</td>
<td>For 2” pipe or with 2”thread, breakload app. 53 kgm</td>
</tr>
<tr>
<td>Shipping detail per system</td>
<td>15 kg / 0.15 m³</td>
</tr>
</tbody>
</table>

Datasheet - Runway Guard Light LED High Intensity  
©TKH Airport Solutions. All rights reserved. All specifications subject to change without notice.
### Light distributions

<table>
<thead>
<tr>
<th>ICAO</th>
<th>TKH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICAO min average (cd)</td>
<td>Measured(cd)</td>
</tr>
<tr>
<td>3000</td>
<td>3514</td>
</tr>
<tr>
<td>ICAO min. (cd)</td>
<td>Measured (cd)</td>
</tr>
<tr>
<td>1500</td>
<td>3121</td>
</tr>
<tr>
<td>1000</td>
<td>1974</td>
</tr>
<tr>
<td>300</td>
<td>537</td>
</tr>
<tr>
<td>max ratio</td>
<td>1.23</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:

![QR Code]

### Document information

Name : 04_Runway_Guard_Light_Type_921_LED_High_Intensity_03-71043  
Version : V1.1  
Language : English (Original manual)

For the latest version of this document see [https://www.tkh-airportsolutions.com/airfield-products/](https://www.tkh-airportsolutions.com/airfield-products/) or scan:

![QR Code]
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:

TKH Airport Solutions
sale@tkhairport.com
www.tkh-airportsolutions.com
+31 (0)53 57 414 57

Visiting address:
Elektrostraat 17
7483 PG Haaksbergen
The Netherlands