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

Compliant with Latest International Standards*
- ICAO Annex 14. Vol 1
- FAA AC 150/5345-46†
- FAA Engineering Brief No. 67†
- TP 312
- EASA
- Stannag 3316 (NATO)

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

The Sign Power Requirements table provides the Power Consumption for each sign size and the corresponding Isolation Transformer. The table applies to both single and double sided signs and 3-step and 5-step regulators. The Power Consumption value is the electrical load presented to the AGL Regulator and takes into account electrical losses and based on a power factor of 0.85.

### Information Sign Power Requirements

<table>
<thead>
<tr>
<th>Sign Face Size</th>
<th>Enclosure</th>
<th>Isolation Transformer (Watts)</th>
<th>Sign Power Consumption (VA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm)</td>
<td>Length (mm)</td>
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<tr>
<td>600*</td>
<td>600 *</td>
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<td>600</td>
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<td>685</td>
<td>2785</td>
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<tr>
<td>600</td>
<td>2915</td>
<td>685</td>
<td>3000</td>
</tr>
</tbody>
</table>

### Mandatory Instruction Sign Power Requirements

<table>
<thead>
<tr>
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<th>Enclosure</th>
<th>Isolation Transformer (Watts)</th>
<th>Sign Power Consumption (Watts)</th>
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</thead>
<tbody>
<tr>
<td>Height (mm)</td>
<td>Length (mm)</td>
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<td>800</td>
<td>2915</td>
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<td>3000</td>
</tr>
</tbody>
</table>

* Size not available for double sided option  **power for double sided sign option
**Environmental Conditions**

- **Ambient Temperature**: -55 °C to +55 °C (-67 °F to +131°F)
- **Storage Temperature**: -55 °C to +55 °C (-67 °F to +131°F)
- **Ingress Protection**: IP65

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**Photometry**

**Specification**

**Mandatory Instruction Sign - Appendix 4**

- **Average Luminance (minimum) RVR less than 800m**
  - **Red**: 30 cd/m²
  - **White**: 300 cd/m²

**Ratios**

- Colour (red/white) range: 1:5 to 1:10
- Adjacent points (main grid points) less than: 1.5:1
- Whole sign face less than: 5:1

**Typical Measured Values**

- **Average Luminance**
  - **Red**: 65 cd/m²
  - **White**: 360 cd/m²

**Ratios**

- Colour (Red/White): 1:5.4
- Adjacent points white (main grid points): 1.04:1
- Whole sign face: 1.10:1

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**Photometry**

**Information Sign - Appendix 4**

- **Average Luminance (minimum) RVR less than 800m**
  - **Yellow**: 150 cd/m²

**Ratios**

- Adjacent Points (main grid points) less than: 1:5:1
- Whole sign face less than: 5:1

**Typical Measured Values**

- **Average Luminance**
  - **Yellow**: 323 cd/m²

**Ratios**

- Adjacent points (main grid points): 1.02:1
- Whole sign face: 1.10:1

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**LED Lamp Life**

Lamp life calculated to be in excess of 55,000hrs

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**Ordering Codes**

**Type**

- M = Mandatory
- I = Information

**Face**

- 2 = ICAO
- 4 = TP312

**Style**

- 1 = Variable Brilliancy (2.8 - 6.6A)
- 2 = Fixed

**Mode - Wind Loading**

- 1 = 100mph (161kph)
- 2 = 200mph (322kph)
- 3 = 300mph (483kph)

**Face**

- 1 = Single
- 2 = Double

**Power**

- 1 = 6.6 amps 50/60Hz
- 2 = 220 VAC 50/60Hz
- 3 = 24VDC

**Further Options upon request**

- Tiedown tether
- Bird Spikes / wire
- Isolator switch
- Open Circuit detect

**Message Element**

Inscription to be specified by the customer.
LED airfield guidance signs, high intensity lighting solutions

Dimensions

Overall Length is Determined by the Inscription

End view single sided sign

End view double sided sign

Dimensions are nominal, number of supports determined by inscription.

Packaging

- Confirmed on request for quotation

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