LED Taxiway Guidance Signs

Compliance with Standards

CAAC: MH/T 6011
ICAO: Annex 14, Volume I
FAA: AC 150/5345-44

Application/Use

Taxiway guidance sign, including
Mandatory instruction signs, information signs, and location sign

Features

- Forms of characters, chromaticities and luminance, uniformity ratio in accordance with the provisions of ICAO Annex 14
- The LED bar is featured by long working life, energy conversation, maintenance-free, which brings enormous economic benefits to customers
- Top brand LED and proprietary driver circuit, which greatly improves the reliability and service life of light fixture
- LED driver unit accommodates to 5 steps brightness regulation, with variations of light intensity less than 5%
- Strict LED color management to ensure premium color consistency and purity
- Internal reflection lighting ensures more even luminance without shadows
- 4.5mm-thick panel made of polycarbonate material, which contains UV-resistant layers and is also impact and abrasion resistant
- Aluminum frame structure with support pillar goes through the sign’s interior, rigid construction, durable and wind resistant
- Multiple waterproof structures with high level of ingress protection
- Modular design of driver circuit, easier to maintain
- Driver circuit integrated with surge protection function and over-heat protection module to enhance reliability
- Power factor of above 0.9 in all 5 brightness steps
- EMI in accordance with FAA requirements, certified to FCC Part15 Class A standard
- Tool-free detachable front panels, convenient for daily cleaning and maintenance
- Frangible couplings with precision machining, complying with FAA requirements, which ensures stable and reliable performance
- The main body is made of aluminum alloy with anti-corrosion treatment, all fasteners are made of stainless steel, suitable for harsh environment application
- Standard chains to prevent signs which have broken from their mounting from blowing away
- Large flange to improve the sign’s capability of gust resistances

Ordering Information

TGSL-H-XXX-XX-X-E
TGSL-H- LED Taxiway Guidance Sign
High intensity
Wind Load Performance
- I = 240 km/h
- II = 322 km/h
- III = 480 km/h
Legend Height
- 2 = 300mm
- 3 = 400mm
Sign Type
- Y = Black legend on yellow background
- R = White legend on red background
- B = Yellow legend on black background
Power Supply
- M = Parallel, 220V
- S = Series, 2.8 to 6.6A
Environment Temperature
- E = from -40 to +55 degrees

Please provide detailed legend info and specific content, parts and accessories should be ordered separately specific with order no.

Construction

1. PC panel
2. Front frame
3. Bolt
4. LED lamp
5. LED lamp drive
6. Frame
7. Frangible pole
8. Base plate
9. Wiring inside pole

Connection

- wiring with flexible metallic conduit
- secondary cable
- earthing
- isolation transformer
- earthing
- secondary cable
- earthing
- wiring terminal
- secondary cable
- isolation transformer
- earthing
- secondary cable
- earthing
- wiring terminal
- secondary cable
- earthing
- wiring inside pole
**Installation**

* See specific dimensions in product manual

**Technical data**

- Power factor: > 0.9
- Power supply: 2.8 to 6.6A series power or 220V parallel power supply
- Wind load: 240k m/h, 322 km/h or 480 km/h
- Protection level: IP54
- Environment temperature: -40℃ to +55℃

**Power determination**

<table>
<thead>
<tr>
<th>No.</th>
<th>Lamp quantity</th>
<th>50W Actual power (W/VA)</th>
<th>100W Actual power (W/VA)</th>
<th>150W Actual power (W/VA)</th>
<th>200W Actual power (W/VA)</th>
<th>Power factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7</td>
<td>45/47</td>
<td>45/47</td>
<td>45/47</td>
<td>45/47</td>
<td>0.95</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
<td>49/51</td>
<td>49/51</td>
<td>49/51</td>
<td>49/51</td>
<td>0.95</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>53/55</td>
<td>53/55</td>
<td>53/55</td>
<td>53/55</td>
<td>0.95</td>
</tr>
<tr>
<td>4</td>
<td>10</td>
<td>57/60</td>
<td>57/60</td>
<td>57/60</td>
<td>57/60</td>
<td>0.95</td>
</tr>
<tr>
<td>5</td>
<td>11</td>
<td>61/64</td>
<td>61/64</td>
<td>61/64</td>
<td>61/64</td>
<td>0.95</td>
</tr>
<tr>
<td>6</td>
<td>12</td>
<td>65/68</td>
<td>65/68</td>
<td>65/68</td>
<td>65/68</td>
<td>0.95</td>
</tr>
<tr>
<td>7</td>
<td>13</td>
<td>68/71</td>
<td>68/71</td>
<td>68/71</td>
<td>68/71</td>
<td>0.95</td>
</tr>
<tr>
<td>8</td>
<td>14</td>
<td>72/75</td>
<td>72/75</td>
<td>72/75</td>
<td>72/75</td>
<td>0.95</td>
</tr>
<tr>
<td>9</td>
<td>15</td>
<td>76/80</td>
<td>76/80</td>
<td>76/80</td>
<td>76/80</td>
<td>0.95</td>
</tr>
<tr>
<td>10</td>
<td>16</td>
<td>80/84</td>
<td>80/84</td>
<td>80/84</td>
<td>80/84</td>
<td>0.95</td>
</tr>
<tr>
<td>11</td>
<td>17</td>
<td>83/88</td>
<td>83/88</td>
<td>83/88</td>
<td>83/88</td>
<td>0.95</td>
</tr>
<tr>
<td>12</td>
<td>18</td>
<td>86/91</td>
<td>86/91</td>
<td>86/91</td>
<td>86/91</td>
<td>0.95</td>
</tr>
<tr>
<td>13</td>
<td>19</td>
<td>90/95</td>
<td>90/95</td>
<td>90/95</td>
<td>90/95</td>
<td>0.94</td>
</tr>
<tr>
<td>14</td>
<td>20</td>
<td>94/100</td>
<td>94/100</td>
<td>94/100</td>
<td>94/100</td>
<td>0.94</td>
</tr>
</tbody>
</table>

* power determination under CCR load 50%

**Accessories**

<table>
<thead>
<tr>
<th>Struc No.</th>
<th>Part No.</th>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>LED Driver</td>
<td>60871</td>
<td>LED driver for TGSL</td>
</tr>
<tr>
<td>3</td>
<td>LED Strip</td>
<td>960A04</td>
<td>LED strip(H300)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>960A02</td>
<td>LED strip(H3400)</td>
</tr>
<tr>
<td>5</td>
<td>Support Pole</td>
<td>60845-I</td>
<td>Type I Support Pole</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60845-II</td>
<td>Type II Support Pole</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60845-III</td>
<td>Type III Support Pole</td>
</tr>
<tr>
<td>6</td>
<td>Flange</td>
<td>27691</td>
<td>Flange 240</td>
</tr>
<tr>
<td>7</td>
<td>Strip connecting wire</td>
<td>71804</td>
<td>Strip connecting wire</td>
</tr>
<tr>
<td></td>
<td>Hinge</td>
<td>946341</td>
<td>Hinge</td>
</tr>
<tr>
<td></td>
<td>Water Leakage Cover Assy</td>
<td>948418</td>
<td>Water Leakage Cover Assy</td>
</tr>
<tr>
<td></td>
<td>Terminal Block</td>
<td>SV3.5-4</td>
<td>Type Y insulation cold-press terminal</td>
</tr>
</tbody>
</table>

* All rights reserved, subject to modifications