**Point Heliport Lighting**

**VAGS-SAGA LED**

**Visual Alignment Guidance System**

**System Alignment Guidance Approach**

Compliances:
- ETL Listed to UL 1598A Marine Vessels, IP66 & IP67
- ETL Listed to CSA C22.2 No. 137-M1981 & No. 250.0-08 Canada
- ETL Listed to UL 1598 at -40 deg C to +55 deg C
- Class I, Division 2, Groups A B C D, T5 at -40 deg C to +55 deg C
- Class I, Zone 2, Groups IIA IIB+H2 IIC, T5 at -40 deg C to +55 deg C
- ICAO Annex 14, Volume II, Chapter 5
- Registered ISO 9001:2015

VAGS-SAGA is a system for use as visual horizontal alignment on heliports and offshore helidecks. VAGS is the ICAO nomenclature appearing in Annex 14, Volume II, Chapter 5 “...located such that a helicopter is guided along the prescribed track towards the FATO.” This is also popularly referred to as SAGA. One VAGS system is for one helicopter approach path using board mounted LEDs. The two units are installed facing the approach and arranged for left & right signals. Digital leveling and aiming by hand held field programming device. Brightness control is standard.

<table>
<thead>
<tr>
<th>Point Type</th>
<th>Voltage</th>
<th>Classification</th>
<th>Form*</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAGS-89021</td>
<td>1: AC, 96-264V 50/60 Hz 3: 24 volts DC</td>
<td>(blank): Safe Area</td>
<td>F: Frangible</td>
<td>See page 2</td>
</tr>
</tbody>
</table>

* The frangible universal mounting is less than 25 cm tall when installed. Frangible mounting includes four threaded legs with frangible couplings, mounting plate & anchor bolts. The VAGS unit includes a 3m cable loop as standard.

For each of two (2) units:
- Dimensions: L: 14.8 (375) Light Unit W: 9.6 (243) Inches (mm) H: 8.1 (205) Overall Height: 9.5 (241)
- Power Use: 70 watts 75 VA
- Adjustment: 0° to 15°
- Brightness: Three (3) steps
- Control
- Alarms: LED Array Failure Alignment

VAGS-89021-1-F
Recommended 4 meters apart

Red Light: Wide Left
Red Light: Wide Right

White Light: Aligned on Approach

Important Note:
The VAGS system is a visual horizontal guidance aid to assist the pilot in aligning the aircraft for approach to landing. It does not replace the pilot’s judgment, skill and responsibility to land the aircraft safely with or without this visual aid.

HL-2.7.5 April, 2019
# Options & Accessories

| EX | Hazardous Area Class I, Division 2 (Zone 2) VAGS unit. |
| PHC | See PHC system controller data file HL411PHC. VAGS operation requires either a PHC controller with option –VC or that one of the –ROS options below must be added to the VAGS. |
| ROS | Remote Operator Station: Includes ON-OFF switch, brightness control, surge protection, alignment alarm indication and remote alarm contacts in a NEMA 4X (IP66) enclosure. |
| ROSW | Remote Operator Station Wireless: Same as –ROS plus wireless ON-OFF operation when set in the AUTO position via a key fob operating at 433.92 MHz. Note that the ROSW unit is hardwired to the VAGS; only the key fob operation is wireless. |
| ROSEX | Same as –ROS except Class I, Division 2 (Zone 2) & NEMA 4X (IP66) enclosure. |
| SS | Stainless Steel 316L enclosure when used with –ROS or –ROSW. |
| PLB | Adds the PLB-40300 wiring junction box recessed in the pavement with baseplate & cable gland for the VAGS’s standard cable loop. For land-based installations only and may be used with rigid or frangible VAGS system. |
| PLS | Same as option –PLB except uses the PLS-40304 shallow wiring junction box. |

## Recommended or Required Accessories

<table>
<thead>
<tr>
<th>Required</th>
<th>PL11248-VAGS</th>
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<tbody>
<tr>
<td>This handheld device is required to install and maintain the VAGS system. It plugs into the VAGS unit to set the leveling and the aiming angle.</td>
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</table>

<table>
<thead>
<tr>
<th>Optional</th>
<th>PPC-40700-1-34T</th>
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<tbody>
<tr>
<td>FAA photoelectric control used with ROS set in AUTO position.</td>
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View our YouTube flight test video of the HAPI & VAGS Systems

Please follow Point Lighting Corporation on:

FACEBOOK  INSTAGRAM  YOUTUBE  LINKEDIN
POINT HELIPORT LIGHTING
VAGS-SAGA LED
VISUAL ALIGNMENT GUIDANCE SYSTEM
SYSTEM ALIGNMENT GUIDANCE APPROACH

TYPICAL STANDALONE FRANGIBLE INSTALLATION

Note: Each VAGS-SAGA system has two light units (left & right) with one ROS control unit or a PHC controller with the required options.

REMOTE OPERATOR STATION (-ROS)
OR AS -ROSW WITH OPTIONAL WIRELESS CONTROL

Power wires must be a minimum of #14 AWG conductor size and the data wires a minimum of #16 AWG for a maximum distance of 250-ft (76m) between the ROS and the VAGS light unit’s cable loop.

The 3-meter cable loop consists of seven (7) conductors all #16 AWG: Line-Neutral-Ground and four (4) data wires.

VAGS UNIT FRANGIBLE MOUNTING
VAGS LEG ASSEMBLY DETAIL
SHOWING BEVELED WASHERS FOR POSITIVE MECHANICAL CONTACT
If the VAGS system is installed with a HAPI system, both systems should be aimed at the same vertical angle. We recommend an On Slope vertical angle setting between 5 and 10 degrees. The HAPI angle must be set so the transition line to flashing red allows the aircraft to clear any obstacles in the approach path.

Not to Scale