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Heliport System Controller HL-HSC

General Description

Flight Light's low voltage heliport system controller is designed to provide safer and more energy efficient control of LED based heliport lighting systems, and may help buildings earn points for LEED certification. Lighting control is provided by a low voltage DC signal, which is safer than higher voltage AC control signals. This low power design allows systems to be run entirely on solar power. The controller activates the output by internal on/off switch, or options such as an external on/off switch, photocell, programmable timer, or VHF radio control. The system is fully protected from input transients, output overload, over-voltage, and over-temperature conditions. The watertight NEMA 4 compliant enclosure and lock provides protection from adverse weather and security from unauthorized access.

Heliport Low Voltage LED System Benefits

- **Safety**
 - Low voltage DC is inherently safer than AC controlled systems.
- **Lower Maintenance Costs**
 - Fully integrated control and power distribution system simplifies system setup and maintenance.
 - The long life expectancy of LED lamps reduces the frequency of lamp replacements.
- **Lower Power and Operating Costs**
 - Low power LED technology reduces power consumption and operating costs.
 - Solar power option utilizes free renewable energy for the utmost in long term savings and environmental friendliness.
- **Flexibility**
 - Ability to control the system operation by various means: on/off switch, photocell, timer, and radio control.
 - Lights can be dimmed at night to reduce glare.



Heliport System Controller

Features

- Low voltage DC output control.
- Solar power option available.
- Dimming option available - brightness control selector allows lights to be dimmed at night to reduce glare.
- Universal operating voltage: 85-265 VAC, 47-63 Hz.
- Simple operation: internal on/off power switch.
- Optional output power capability: 150 watt (standard) or 300 watt (optional).
- 100W maximum output for Solar Powered version.
- Wide operating temperature range: -10°C to + 55°C.
- Input transient protection.
- Output overload and over-voltage protection.
- Over-temperature shut-down protection.
- Weatherproof NEMA 4 enclosure with security lock.

Ordering Code

Product Code	Activation Options	Power Option
HL-HSC	-P: FAA style photocell -T: Programmable timer -RCS: Radio control receiver w/antenna -RCSRA: Radio control w/remote antenna -D: Dimming (DC only) -RC3-D: Radio controlled dimming option	-A: AC output -H: Extends output power capability to 300 watts -S: Solar power (100 watt limit) -2: 240VAC input voltage

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Heliport System Controller Options

Photocell Option

Use of a photocell is recommended for dusk-to-dawn control of operations of non-solar-powered systems. Photocell is supplied in a UL stabilized high-impact polypropylene housing which contains the cadmium sulfide light sensitive element. Surge protection is provided by a metal oxide varistor rated at 320 joule. It turns on at 1-3 foot candles, has a minimum rated life of 5,000 operations, and an operating temperature range of -40°F to 170°F. Measures 3.07" diameter by 2.15" high.

Programmable Timer Option

The programmable timer option is recommended for precise control of operating times. The programmable timer is a 12 hour, 8 event clock based timer. Multiple on/off times may be programmed into the timer. Each day can be programmed with its own unique timing pattern. An internal battery is capable of maintaining the clock and program memory for up to 3 months without external power.

Radio Control Option w/o Remote Antenna

The radio control option allows activation of lighting by pilots as they approach the heliport. Pilots may control the lighting with key clicks from their AM transceiver over the VHF aircraft frequency band. System features include a 5 mile minimum operating range (depends on antenna height and a clear line of sight), user selected operating frequency (factory set between 118.0 and 137.0 MHz in 25 KHz increments), optional response settings (system may be set to respond to 3, 5, or 7 clicks), and adjustable activation duration (user programmable from 1 to 35 minutes in 1 minute intervals). The standard version includes an antenna which mounts on the controller enclosure. The receiver with remote antenna option comes with an antenna, antenna mount, 30' RG58 cable, and surge suppressor.

Dimming Option

With the dimming option, the lights can be dimmed at night to reduce glare. Three brightness levels can be selected.

Radio Controlled Dimming Option

The Dimming Radio Controller allows pilots to control light intensity by clicking their microphone on and off over the VHF aircraft frequency band. Pilots can reduce glare and adjust system brightness by selecting from low (3 clicks), medium (5 clicks) or high intensity (7 clicks) which provides 25%, 50%, or 100% output as they approach the heliport. System features include a 5 mile minimum operating range (depending on antenna height and line of sight), user selected operating frequency (factory set between 118.0 and 137.0 MHz in 25 KHz increments) and adjustable activation duration (user programmable from 1 to 35 minutes in 1 minute intervals).

Power Option

The standard model supplies up to 150 watts of power and is capable of controlling most small heliport lighting systems. For larger heliports, the power option may be added, extending the output power capability to 300 watts.



Solar Power Option

The solar power option equips the system to run with free, renewable energy from the sun. Unprecedented in the industry, this green feature is the ideal long-term investment. Ongoing savings afforded by utilizing solar energy are calculated over the lifetime of the installation. The maximum output power is 100 watts, which will drive up to 16 LED fixtures.

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Heliport System Controller HL-HSC

Heliport Low Voltage LED System Packages

Elevated Low Voltage LED System

- Improved safety: low voltage DC operation
- Easy installation
- Lowered maintenance: LED life expectancy exceeds 50K hours
- Lowered operating costs: low power LED technology



HL-860

Qty:	Item #:	Description:
8	HL-860-GL-12-14	Elevated LED (5 watt) green perimeter light and 1.5" frangible coupling, 12 VDC operation
8	35-1935AA-25	Base plate for L868AA base: 8.5" diameter, 7.25" bolt circle
8	35-868AA.5-5	L868AA base: 8.5" x 5" deep, 1" grm @ 0°, 180° with 3/4" drain, 7.25" BC
1	HL-HSC	Low Voltage System Controller with 12 VDC output, on/off switch, 150 watt power output capability (Solar power option available)
1	L806-S1-EX-12-ON-5	Externally lit (low voltage LED), L806 wind cone with orange nylon wind sock (8 ft. long by 18 in. diameter at the mouth) and L810 LED obstruction light, 12 VDC operation

Inset Low Voltage LED System

- Safety: low voltage DC operation
- Knockdown proof: low profile, used in high traffic areas
- Easy installation
- Low maintenance: LED life expectancy exceeds 50K hours
- Low operating costs: low power LED technology



HL-ZA292A



HL-392

Qty:	Item #:	Description:
8	HL-ZA292A-GLV or HL-392-GLV	Green omni-directional LED (8 watt) inset light: anodized aluminum construction, 8" diameter, 7.25" bolt circle, 12 VDC operation
8	35-868AA.5-5	L868AA base: 8.5" x 5" deep, 1" grm @ 0°, 180° with 3/4" drain, 7.25" BC
1	HL-HSC	Low Voltage System Controller with 12 VDC output, on/off switch, 150 watt power output capability (Solar power option available)
1	L806-S1-EX-12-ON-5	Externally lit (low voltage LED), L806 wind cone with orange nylon wind sock (8 ft. long by 18 in. diameter at the mouth) and L810 LED obstruction light, 12 VDC operation

Inset Low Voltage Dimming LED System

- Safety: low voltage DC operation
- Knockdown proof: low profile, used in high traffic areas
- Dim lights at night to reduce glare - select from three brightness levels
- Low maintenance: LED life expectancy exceeds 50K hours
- Low operating costs: low power LED technology



HL-ZA292A



HL-392

Qty:	Item #:	Description:
8	HL-ZA292A-GLVD or HL-392-GLVD	Green omni-directional dimming LED (8 watt) inset light: anodized aluminum construction, 8" diameter, 7.25" bolt circle, 12 VDC operation
8	35-868AA.5-5	L868AA base: 8.5" x 5" deep, 1" grm @ 0°, 180° with 3/4" drain, 7.25" BC
1	HL-HSC-D	Low Voltage Dimming System Controller with 12 VDC output, on/off switch, dimming option, 150 watt power output capability (Solar power option available)
1	L806-S1-EX-12-ON-5	Externally lit (low voltage LED), L806 wind cone with orange nylon wind sock (8 ft. long by 18 in. diameter at the mouth) and L810 LED obstruction light, 12 VDC operation

Basic packages may be expanded or customized. Call toll free at 1-800-806-3548 or phone 916-394-2800 to request quote.

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