

Heliport System Controller with External Switch



HL-HSC-AC1AC-XS Operation Manual

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AC Heliport Controller With External Switch (HL-HSC-AC1AC-XS)

Installation Instructions

Your Heliport Controller has been designed with safety and protection features to provide years of service with minimum maintenance when used properly. Please follow these instructions for proper installation and operation. The photocell is protected from lightning and other transients by a high quality Surge Arrestor. The Circuit Breaker restricts the load current to 20A maximum (per NEC you should not have more than 16A to the load).

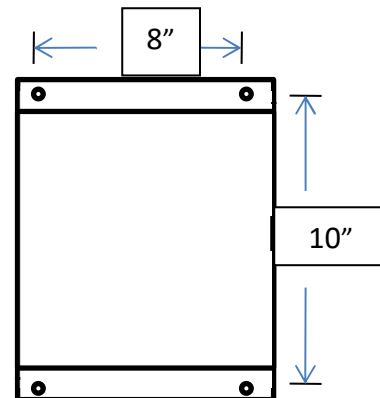
CAUTION! This system may have high voltages and currents while it is operating, it is recommended to use high voltage gloves whenever the circuit breaker is ON.

Mounting Installation Instructions

- When selecting a mounting location it is best not to mount the enclosure in direct sunlight, next to a heat source, and location exposed to excessive amount of water/moisture.



Enclosure Showing Mounting Tabs



Mounting Layout

- The controller enclosure is NEMA 4 compliant, and is usually mounted to a wall utilizing the four mounting holes located on the enclosure's mounting tabs (mounting hardware supplied by installer). The overall dimensions of the enclosure is 10"H x 8"W x 4"D.



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Electrical Installation Instructions

- An access hole needs to be placed in the enclosure for incoming power wires and output circuit wires. This hole can be any size, and can be placed anywhere on the bottom wall of the box. **Flight Light is not responsible for damage or incomplete sealing caused by this process.**
- The AC Power Source connects to the controller at the **circuit breaker** with Line connected to terminal 2 and Neutral connected to terminal 4. The panel should be grounded per local electrical code.
- Output circuit connections can be made using the black terminal blocks for Line, the white terminal blocks for Neutral, and the green terminal blocks for Ground.

Electrical Specifications:

Input: 120VAC, 20A, 2400W

Output: 120VAC, 20A, 2400W

120VAC <u>Input</u> Wiring
"Line", 20A, 2-pole Circuit Breaker AC Line 1 Input (Terminal 2)
"Neutral", 20A, 2-pole Circuit Breaker AC Line 2 Input (Terminal 4)
"Ground", surge arrester (see diagram in next page)
120VAC <u>Output (Load)</u> Wiring
"Line", Black Terminal Block
"Neutral", White Terminal Block
"Ground", Green / Yellow Terminal Block

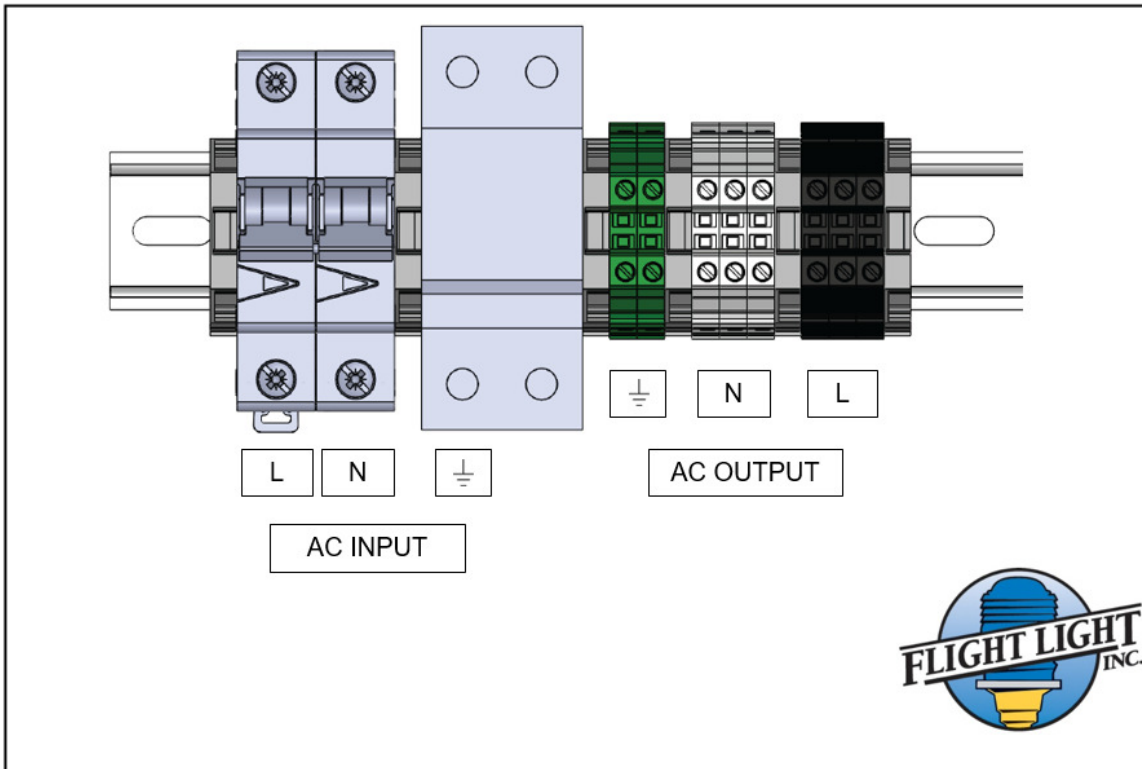
Table 1: Controller Wiring Instructions



AC Heliport Controller With External Switch

(HL-HSC-AC1AC-XS)

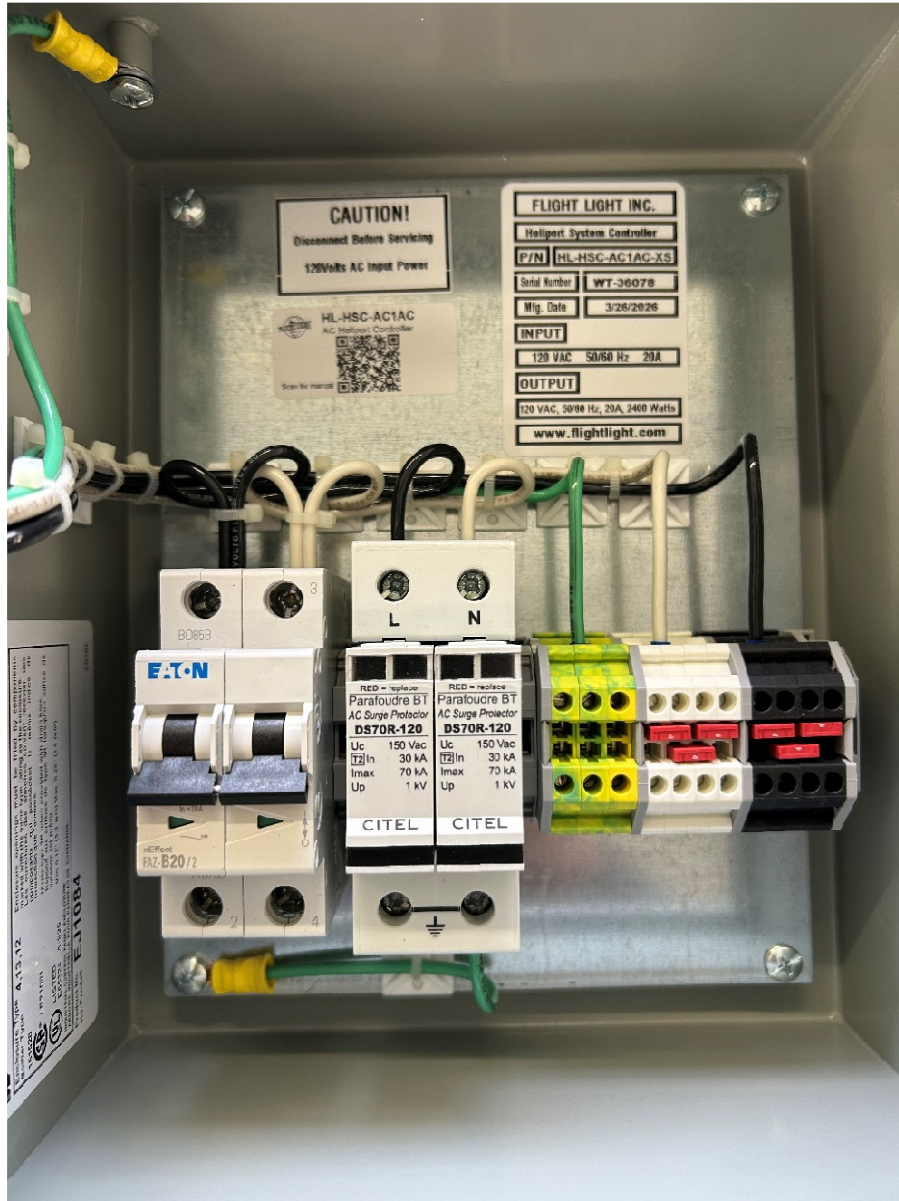
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Installation Instructions





AC Heliport Controller With External Switch (HL-HSC-AC1AC-XS)

Installation Instructions

Operation with External Switch





AC Heliport Controller With External Switch

(HL-HSC-AC1AC-XS)

Installation Instructions



OFF POSITION



ON POSITION



AC Heliport Controller With External Switch (HL-HSC-AC1AC-XS)

Installation Instructions

External Switch Operation:

- a) Make sure the internal circuit breaker inside the controller is in the ON/UP position.
- b) To turn on/energize the controller/load, turn external switch to the right position (I)
- c) To turn off, turn external switch to the top position (O).
- d) Note: The controller can also be turned off by switching the internal circuit breaker inside the controller to the OFF/DOWN position.

Replacement Parts List:

You may contact Flight Light, Inc for replacement parts according to the following chart:

Name	Part Number
20A Circuit Breaker	27-FAZ-C20/2
Lightning Arrestor	27-DS72RS-120
External Switch	27-SWITCH

If assistance is required, please contact FLI Technical Support at 800-806-3548/916-394-2800.