Datahoist

Elevator IOT Machine

Model- SOTL5-b

Packing List

Before setting up your product, please make sure the following items have been shipped:

1- SOTL5

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

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About this Document

This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the Datahoist.com for the latest version of this document.

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Please read the following safety instructions carefully. It is advised that you keep this manual for future references

1. All cautions and warnings on the device should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
4. Always completely disconnect the power before working on the system's hardware.
5. No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
6. Always disconnect this device from any power source before cleaning.
7. While cleaning, use a damp cloth instead of liquid or spray detergents.
8. Place the device on a solid surface during installation to prevent falls
9. Do not cover the openings on the device to ensure optimal heat dissipation.
10. Watch out for high temperatures when the system is running.
11. Do not touch the heat sink or heat spreader when the system is running
12. Never pour any liquid into the openings. This could cause fire or electric shock.
13. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.
14. If any of the following situations arises, please the contact our service personnel:
    i. Liquid intrusion to the device
    ii. Device is not working as expected or in a manner as described in this manual
    iii. Any obvious signs of damage displayed on the device
15. DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20° C (-4°F) OR ABOVE 60°C (140°F) TO PREVENT DAMAGE.

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Warning!

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Caution:

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by doing one or more of the following measures:

- *Reorient or relocate the receiving antenna.*
- *Increase the separation between the equipment and receiver.*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- *Consult the dealer or an experienced radio/TV technician for help.*

(1) FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

(2) Radiation Exposure Statement:

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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SOTL5 Monitor IO

There are 8 inputs in 2 terminal blocks of 4 each. Each block has its own reference. The figures below show an example pull sheet, but it can be wired in any combination that works for the car it's installed on. Each block supports one logic circuit supply from 24 – 120 v ac or dc. **Low voltage monitoring (below 60 volts) is accomplished with a jumper installed on a 2 pin header in front of the wire terminal** The unit is powered by 100-240 vac from the cartop as well.

All wires into the box should be 18 – 20 ga. Stranded.

Power Block

Pin1	Neu
Pin5	100-240 vac

Input Block 1

Pin1	Common
Pin2	Power - Logic Feed
Pin3	Inspection
Pin4	Door Zone (optional)
Pin5	Fire Service (optional)

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Input Block 2

Pin6	Common
Pin7	Interlock or Gate switch
Pin8	Independent (optional)
Pin9	Door Open Limit
Pin10	Door Close Limit

3/4" flex and multi-conductor for the power and logic circuits is needed for installation. 12 at most on the multiconductor of wires 18 – 20 ga stranded.

Instructions for Installation

Customer shall determine which elevator unit they will install the device on, and determine signal voltages and car top terminal names for the following.

Measure and record:

1. Power (Can be safety circuit or logic common)
2. Inspection
3. Door Open Limit
4. Door Close Limit
5. Interlock (Can be Gate switch if the Interlock isn't available on the car)

Measure and record for optional data:

6. Independent
7. Fire Service
8. Door Zone

In addition, 120 vac power is needed for device power.

Customer submits the following information to Datahoist:

Building Name:	
Elevator Name:	
Elevator Type (Hydro, traction, etc…):	
Elevator Make/Model:	
Door Operator Make/Model:	

There are 2 terminal blocks, each with it's own reference terminal. This allows for 2 different types of circuits to be monitored, from 24 to 120 volts ac or dc. An example pull sheet is included with this document.

To monitor low voltage circuits (below 60 volts) a jumper is installed on a 2 pin header in front of the wire terminal.

To install the device, simply fasten to the box to the cartop with screws through the mounting flanges on the outside of the box.

Terminal Block 2

Terminal Block 1

12 vdc Power supply
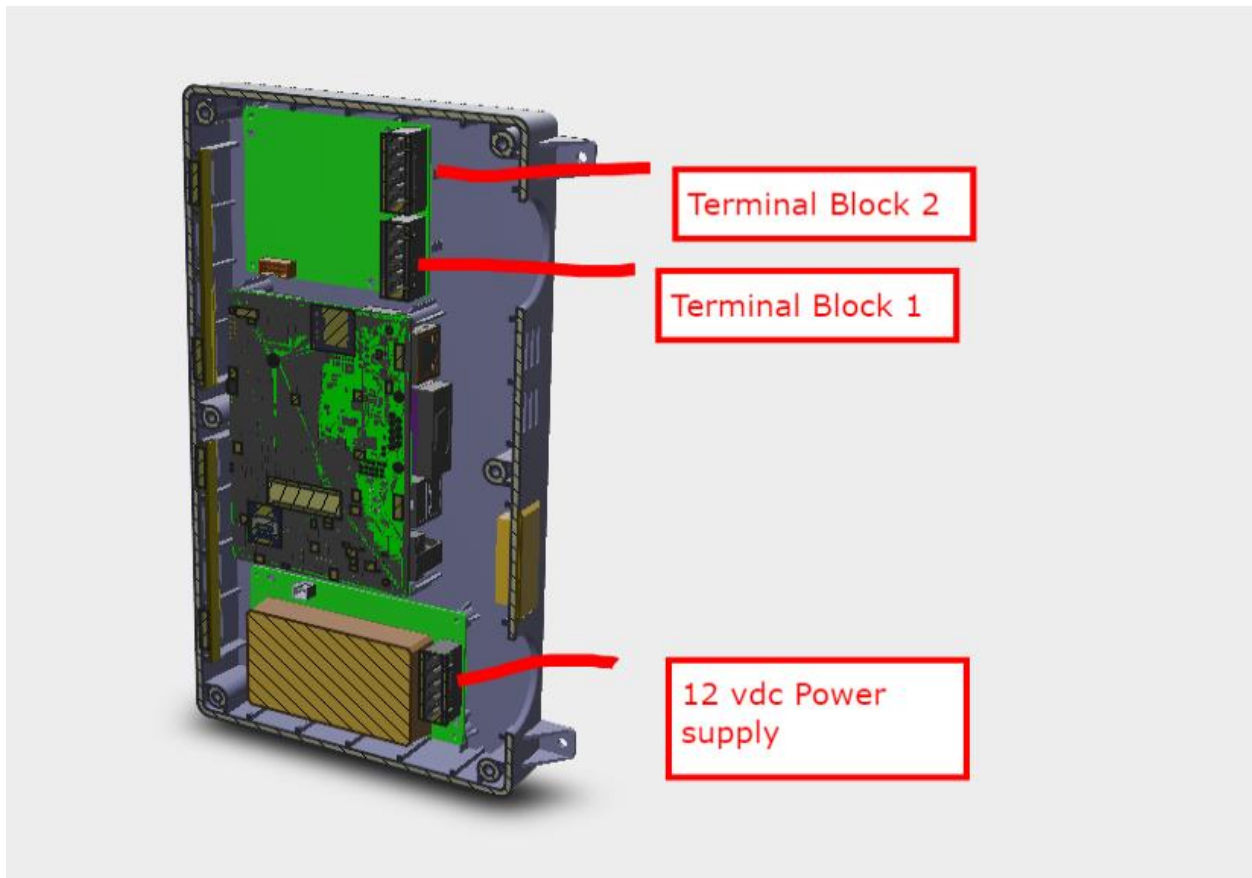
Incoming power (100-240 vac) to the unit is wired to pin 1-Neu and pin 5- Line. Wires should be 18 to 20 ga stranded.

4 inputs each are wired to Block 1 and Block 2, with the reference being on terminal 1 (first from the left) on each block. Wires should be 18 to 20 ga stranded.

Once installed the unit connects to the Datahoist cloud and the operation can be observed via the dashboard by logging in with credentials supplied by your Datahoist contact.