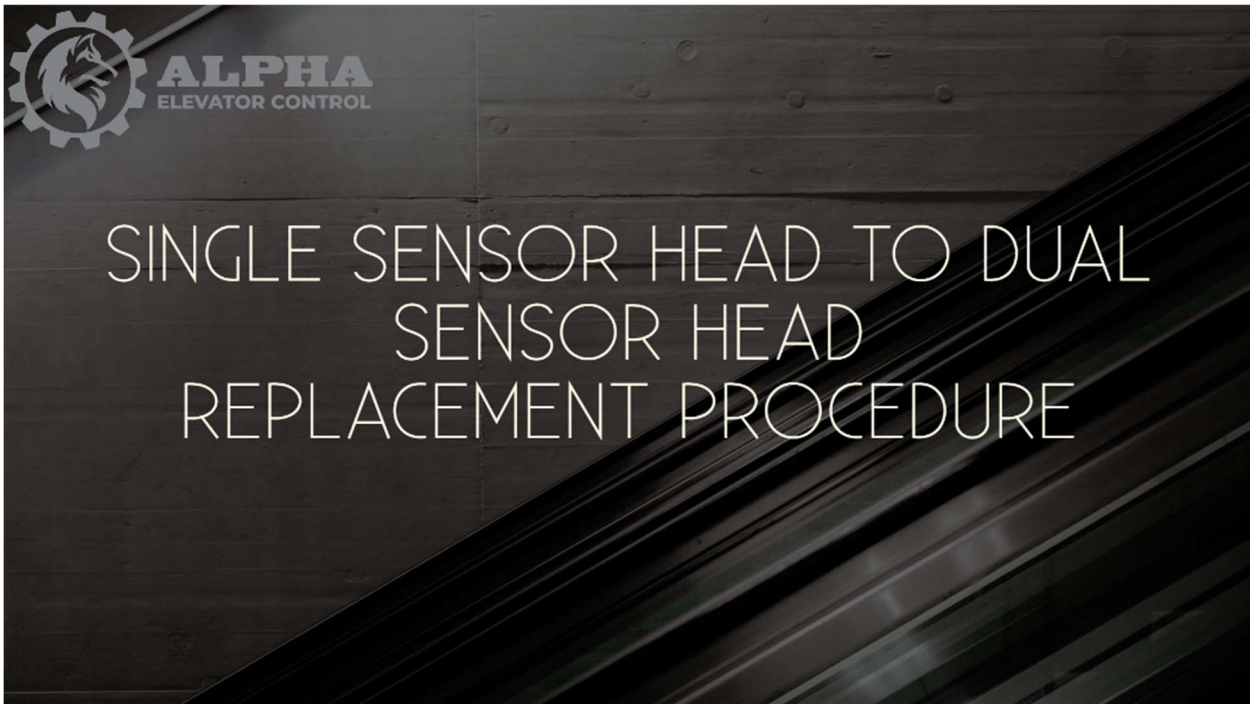


Revision 0.5



ALPHA ELEVATOR CONTROL, INC

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HARDWARE:



The single head sensor uses 4 wires while the dual head sensor uses 6 wires. The dual head sensor will require a KIB board to interface to it. The dual head sensor allows the controller to use VIRTUAL NTS.

- 1) Remove the wires from the signal head sensor that is connected to 24V, CN2H, CN2L, and REF of the CT UI Board. Swap out the single head sensor with the dual head sensor.
- 2) Place the KIB Board inside the CT box. Wire the dual head sensor to the KIB Board using the drawing in Figure 2.



Figure 1: KIB Board

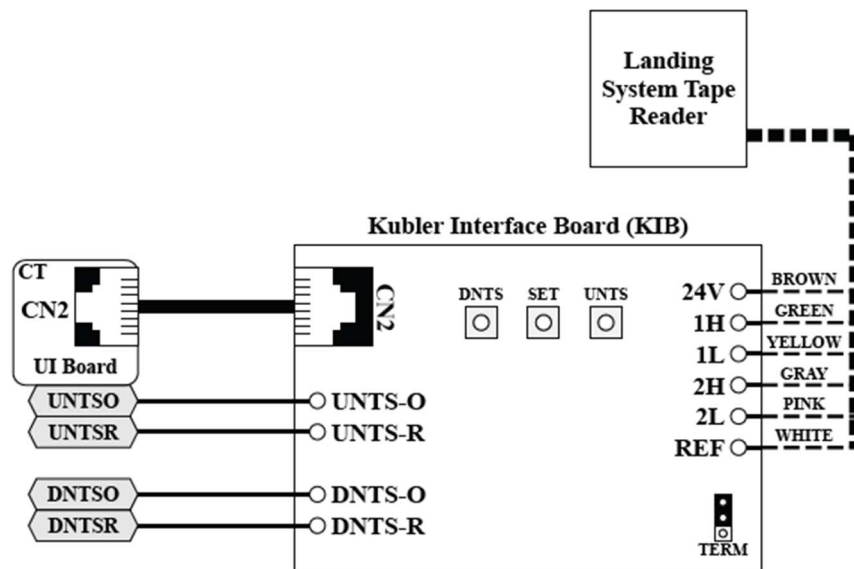


Figure 2: Dual Head Sensor Wiring / KIB Board Wiring

- 3) Add the two extra terminal block inside the CT box (labeled UNTS-O, UNTS-R, DNTS-O, and DNTS-R) and wire the KIB Board to the terminal block per Figure 2.
- 4) Wire in the CAT 5 from the KIB Board to the CT UI Board per Figure 2.

- 5) Wire up the traveler for UNTS-O, UNTS-R, DNTS-O, and DNTS-R from CT terminal block to the MR Safety board per Figure 3. If there are existing wires on UNTS-O, UNTS-R, DNTS-O, and DNTS-R on the safety board, those can be removed.

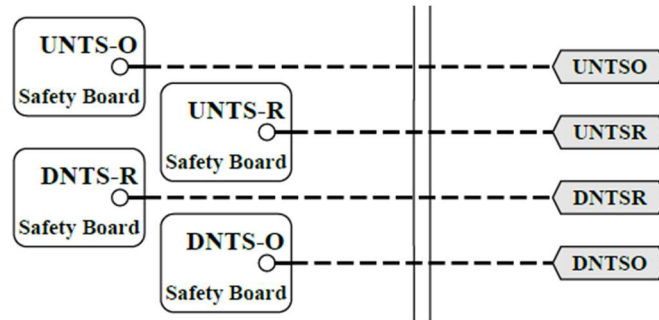


Figure 3: Traveler wire from CT terminal block to MR Safety Board

SETTING UP VIRTUAL NTS:



There is no order in which NTS position needs to be set first, either can be done before the other.

- 6) Place the elevator on Cartop Inspection.
- 7) Setting the UNTS Position:
 - a. Move the car to the slowdown initiation point for the top terminal landing. You will see this on your main screen, it will show SD at the upper right. Move the car to where SD first appears.
 - b. On the Kubler Interface Board (KIB), press and hold the SET (middle) button until both the LEDs on the bottom left of the board for UNTS and DNTS starts flashing.
 - c. Press the UNTS (right) button. Only the UNTS LED remains flashing.
 - d. Press the UNTS button a second time. The UNTS position is now set and the LED should stop flashing and stay powered on. The DNTS LED should also be on.
- 8) Setting the DNTS Position
 - a. Move the car to the slowdown initiation point for the bottom terminal landing. You will see this on your main screen, it will show SD at the upper right. Move the car to where SD first appears.
 - b. On the Kubler Interface Board (KIB), press and hold the SET (middle) button until both the LEDs on the bottom left of the board for UNTS and DNTS starts flashing.
 - c. Press the DNTS (left) button. Only the DNTS LED remains flashing.
 - d. Press the DNTS button a second time. The DNTS position is now set and the LED should stop flashing and stay powered on. The UNTS LED should also be on.
- 9) After fine tuning your valves and slowdowns, you can readjust your NTS positions if needed by repeating steps 7-9.