WHAT IS CLAIMED IS:

1. A contactless elevator control system comprises an elevator button control device with button dry contacts, the button dry contacts are configured to drive elevator buttons, it is characterized in that the system further comprises: an infrared touch sensor and a relay control device, wherein the infrared touch sensor is installed adjacent to an elevator button panel and connected to the relay control device through a Modbus RTU RS-485 interface, the relay control device comprises a plurality of relay contacts and the plurality of relay contacts are connected to the button dry contacts of the elevator button control device one by one; the system control the relay contact in the relay control device to drive the button dry contacts of the elevator button control device connected with the relay contacts；

the infrared touch sensor is configured to: emit an array of infrared beams, receive reflected infrared beams when an object enters the active detection area of the infrared touch sensor in front of the elevator button panel, calculate a vertical displacement and a lateral displacement according to the reflected infrared beams, determine a corresponding coordinate information according to the vertical displacement and the lateral displacement, calculate a corresponding elevator button number according to the corresponding coordinate information, and send a corresponding control command according to the corresponding elevator button number;

the relay control device is configured to: drive the corresponding relay contacts to close according to the corresponding control command; and

the elevator button control device is configured to: drive the corresponding button dry contacts to close.

2. The contactless elevator control system of claim 1, wherein the infrared touch sensor includes a transmitter, a receiver and a microcontroller;

the transmitter is configured to: emit the infrared beam;

the receiver is configured to: receive the reflected infrared beams when an object enters the active detection area of the sensor in front of the elevator button panel;

the microcontroller is configured to: calculate the vertical displacement and lateral displacement according to the infrared beam information, determine the corresponding coordinate information according to the vertical displacement and the lateral displacement, calculate the corresponding elevator button number according to the corresponding coordinate information, and send the corresponding control command according to the corresponding elevator button number.

3. The contactless elevator control system of claim 2, wherein the infrared touch sensor includes

a plurality of transmitters and receivers, and the plurality of transmitters and receivers are alternately arranged.

4. The contactless elevator control system of claim 2, wherein the transmitter emits the infrared beam perpendicular to an output window.

5. The contactless elevator control system of claim 2, wherein the view field of the receiver is centered on the left and right preset angles.

6. The contactless elevator control system of claim 1, wherein the relay control device is installed around the elevator button panel or on the top of an elevator car.

7. A contactless elevator control method, wherein an elevator button control device contains button dry contacts, and the button dry contacts are configured to control elevator buttons, characterized in that the method includes controlling a relay contacts in a relay control device to drive the button dry contacts of the elevator button control device connected with the relay contacts, and specifically includes:

an infrared touch sensor emits an array of infrared beams, receive reflected infrared beams when an object enters the active detection area of the sensor in front of the elevator button panel, calculate a vertical displacement and a lateral displacement according to the infrared beam, determine a corresponding coordinate information according to the vertical displacement and the lateral displacement, calculate a corresponding elevator button number, and send a corresponding control command;

the relay control device drives the corresponding relay contacts to close according to the corresponding control command;

the elevator button control device controls the corresponding button dry contacts to close;

wherein the infrared touch sensor is installed adjacent to the elevator button panel and connected to the relay control device through a Modbus RTU RS-485 interface, the relay control device includes a plurality of relay contacts, the plurality of relay contacts are connected to the button dry contacts of the elevator button control device one by one.

8. The contactless elevator control system of claim 7, wherein the infrared touch sensor includes a plurality of transmitters and receivers, and the plurality of transmitters and receivers are alternately arranged.