EWD-H-KXJ3

User's Guide

(V2.2)

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Xi'an Excellent Electromechanical Co.,Ltd

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Caution: This system is applicable to the "Movable car bottom" elevator. Please read the following chapters carefully before use.

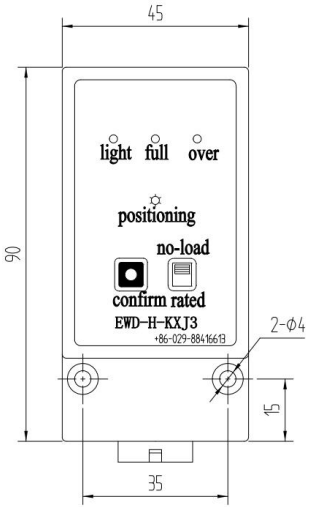
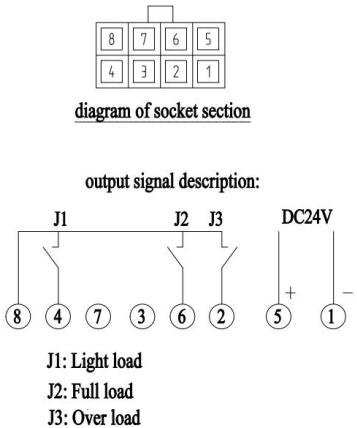
The induction magnet is a special rare earth magnet with this product, the magnetic strength is strong, the installation process must be careful; at any time to avoid the magnet close to 100 ℃ above the high temperature, so as to avoid demagnetization;

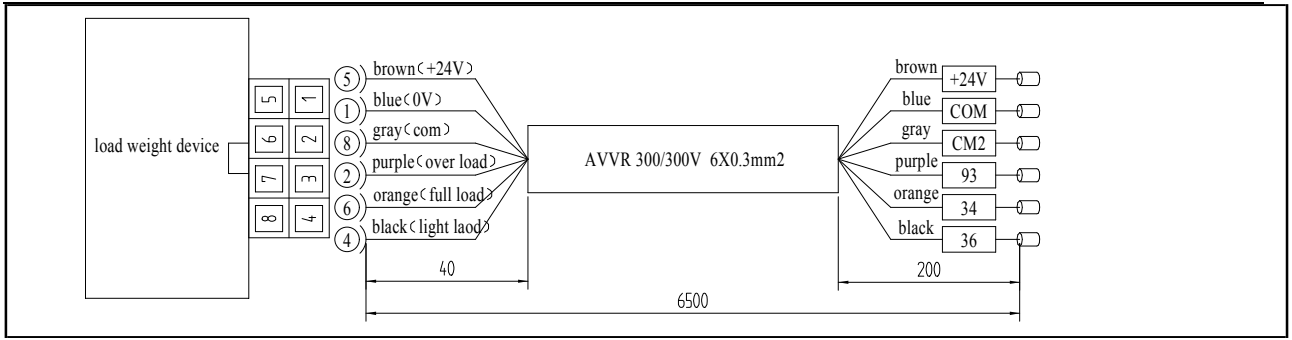
Note：Under any condition, our part is just responsible for the quality of product in the period of guarantee service.

Declaration: For the reason of technology advancement, our company reserves the right of improving product. As for the relevant technical parameters, Please refer to the technical handbook delivered with the product.

System Overview

一. Product appearance, internal structure and interface description：

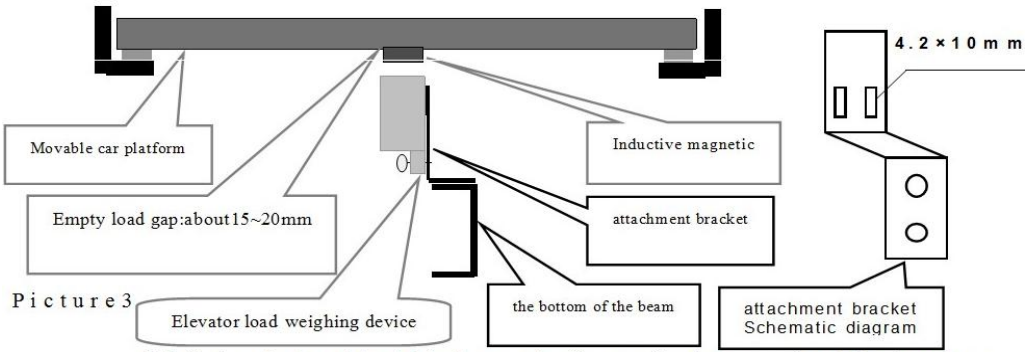
	EWD-H-KXJ3
Dimensions and connector description	 
Attention	System power supply：DC/AC24V(±10%) / 150mA Please not put the ①、⑤"of this device output port directly connected to external power supply,which may cause permanent damage shall not responsible for the company.
	J1～J3 inner Solid state relays, Max load capacity：DC/AC 32V/50mA.

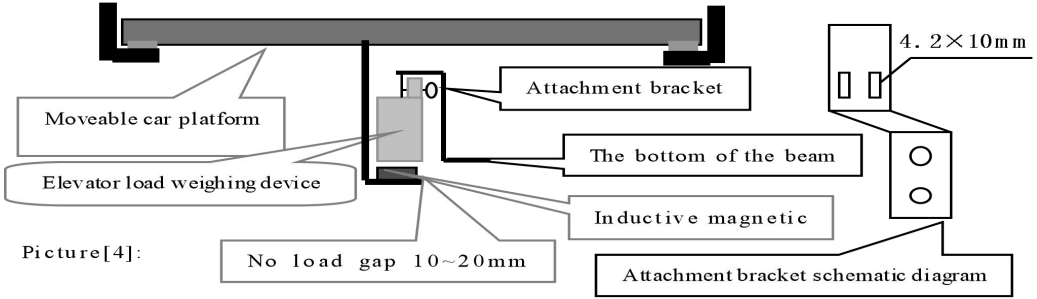


二. Installation diagram

Installation method

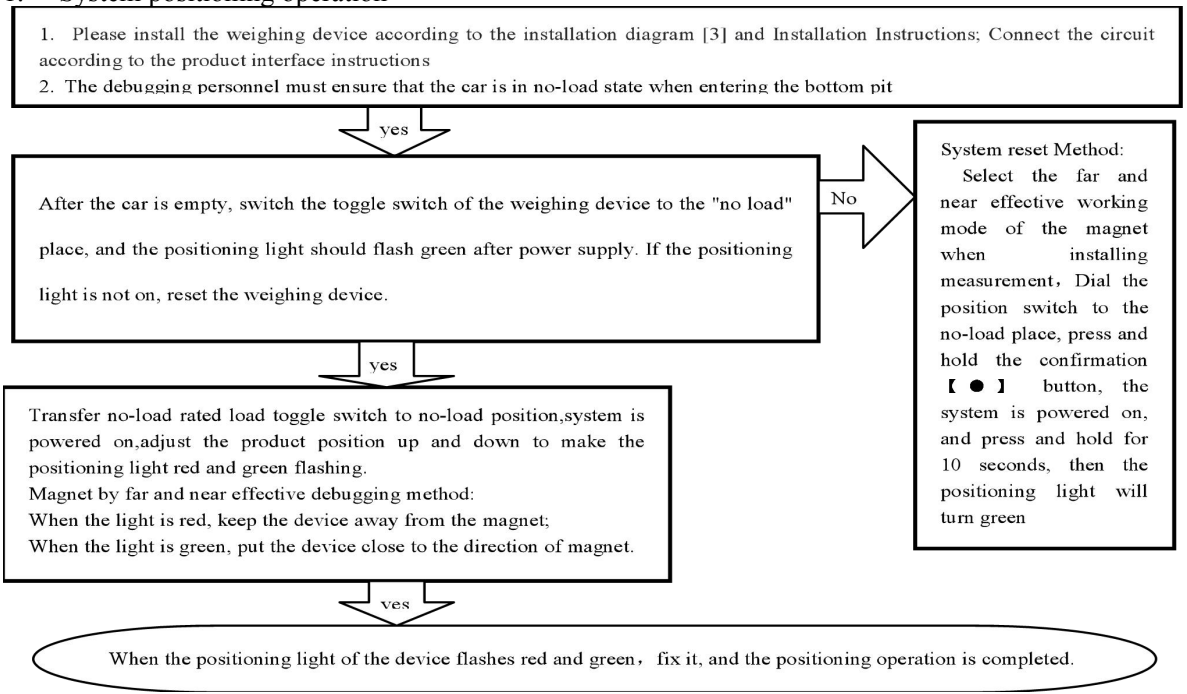
1. Installation schematic diagram of effective working mode with magnet close to



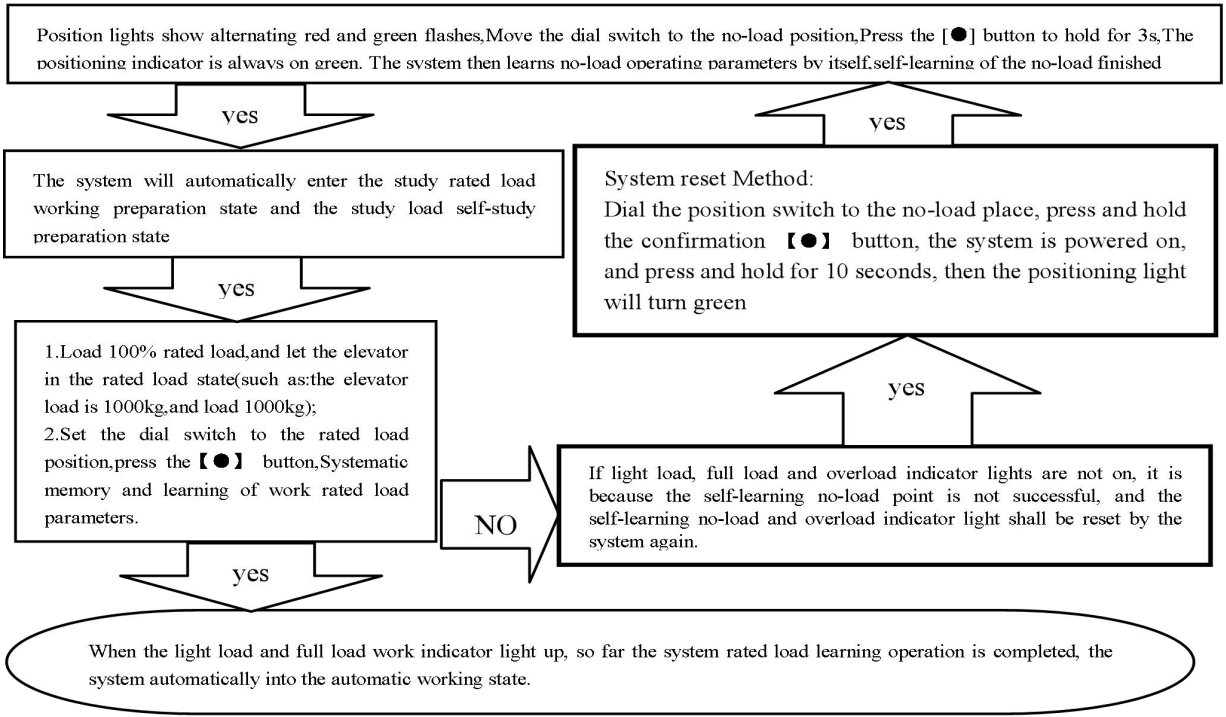
	2. Installation schematic diagram of effective working mode with magnet far away.  Picture[4]: Note: System attachment bracket by the user should according to user needs and the circumstance.
Installation instructions	Installation Instructions: 1. As far as possible, install the device near the center of the car bottom or the original overload switch position of the elevator. The system should be installed on the bearing beam of the car bottom, and sign surface positive symmetry heavy device sensing point . 2. The system support should be made according to the specific conditions of the elevator, but it must be made of materials that are not easy to be deformed. The thickness should be above 4mm or with reinforcing bars to prevent swinging; Adjust the device so that the car bottom magnet is aligned with the center point of its upper end face. At the same time, the end face of the device must be parallel to the end face of the magnet. 3. Different supports can be made according to different ladder requirements, so as to select different working modes. 4. The corresponding magnet in FIG. 3 is installed close to the effective working mode, while the corresponding magnet in FIG. 4 is far away from the effective working mode. Note: choose one of the mounting bracket and working mode as shown in figure 3 and figure 4. Refer to the user manual for the corresponding self-learning mode of the product.

三. System debugging methods and instructions

1. System positioning operation



2.No load and Rated Load Operation Parameters for Auto tuning：



3.System Adjustment under other conditions：

For the following reason，it is necessary to modify the operating parameters of this device.

①For elevator car decoration change，the dead weight of the moveable car platform changes；

②The car platform appears mechanical deformation；

③The car platform appears damping rubber appears aging or deforming；

④The elevator overruns at the top or at the bottom；

⑤The weighing device becomes slack at the fixing end.

System Characteristics

四、Working principle of "EWD-H-KXJ3" elevator weighing device

With the continuous progress of elevator technology, elevator weighing device on its performance has reached a point where can not be ignored. Elevator on the weighing device of high precision, high reliability, multi-functional needs are imminent. In the sensor technology and the development of micro-computer today, the use of high-precision Hall sensors to detect the elevator car due to the load caused by the displacement changes, while the use of single-chip microcomputer to its scientific computing, the device to achieve the The work function of the elevator car payload weighing.

五、Main property

(1) Working in a contactless and inductive way. No mechanical movement. Solid-state relay outputs. Being directly installed in the original place of overloading switch. No necessity of changing the mechanism of elevator car.

(2) The whole system is designed in the waterproof structure with small overall size, easy installation and adjustment and simple structure.

(3) The inner core consists of Hall sensor of high accuracy and single-chip microprocessor of high efficiency. All parameters may be set on the field.

(4) Adopting strong inductive magnet, improving the anti-interference capability of the system to the utmost.

(5)Each set has passed strictly aging treatment to assure reliable operation；

(6) The system is based mathematical equations and scientific calculation, correcting inspection error automatically.

(7) On-site debugging adopts self-learning method, which is very convenient to operate.

六. Technical specifications:

1.	Application		Being applicable to all moveable car platform elevators, with an auto inspection range of (2.00mm ≤car platform movement≤10.00mm);	
2.	Output Mode:	Solid-state Relay	Programmable universal signal:	3channel programmable output modes are: Light load、full load、Over load Contact Capacity: DC/AC 32V/50mA。
3	Ambient Temperature:		-20～55℃	
4	Relative Humidity:		20%～99%RH	
5	Reaction Time:		≤0.25 Second	
6	Power Supply:		AC/DC 24(±10%)V / 150mA	
7	Installation Place:		Moveable car platform of elevator	
8	Overall Size:		45×45×90 mm3	

The intensity exceeding the limit parameters listed above may result in the abnormality or permanent damage to the system.

Promise

(1)If this system appears any quality problem of product itself in 1 year after delivery, it will be replaced freely（damage of the product seal will not be dealt with）。

(2)Any system abnormality in adjustment or operation, please contact our company directly.

Others

1.Accessory Instruction Manual 1 copy Fixing Screw set 2 sets
Inductive magnet [20×20×4mm3] 1 piece

2.address book:

After-sales service: +86 (029)88416613
Technical guidance: +86 18092639750
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