EWD-H-J3 EWD-H-J5 EWD-H-SJ3

USER'S GUIDE (V1.5)

Xi'an Excellent Electromechanical Co., Ltd.

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Caution: This system is applicable an elevator with \[moveable car platform \] . Before use, please read the following content

carefully.

The Inductive magnet is specially-made rare-earth magnet for this product with strong magnetic force. Special care should be taken during installation. Under no condition should it be away from the high temperature above 100° C to avoid demagnetizing and the equipment damage and personal hurt from this is beyond our responsibility.

Notice: Our part is just responsible for the products quality in the guarantee period under any condition.

Declaration: Our company reserves the right of changing products for technical improvement and the related technical parameters should be referred to the USER'S GUIDE along with the products.

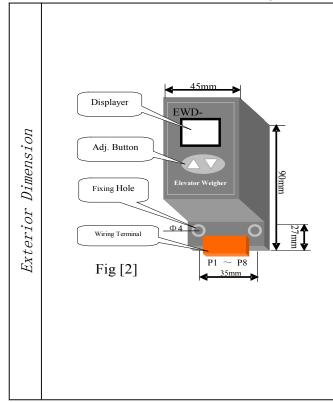
Product Overview

1. Product Appearance, Interior Structure and Interface Directions:

$\label{thm:condition} \textbf{Technical File of the EWD-H-J3/J5/SJ3 Intelligent Elevator Load Weighing Device [User's Guide]}$

	EWD-H-J3	EWD-H-J5	EWD-H-SJ3
Appearance	EWD-H-J3 LISA WIGHING DEVOCE TEL. 86-GR-64888177	END-H-J-S LEAD WEIGHING CHARLES THE ACCREMINATION DECCCOCCCC	EWD-H-5-J3 LICAL WEIGHTS DEVICE TIEL BEOGRAMMETT
Interior Structure	P1 P2 P3 P4 P5 P6 P7 P8 Sys. Def J1: No load D2: Rated load J3: Overload AC/DC24V	PI P2 P3 P4 P5 P6 P7 P8 Sys. Def J1. Light load J2: Semi load J4: Rated load J5: Overload	Pl P2 B P4 P5 P6 P7 P8 Sys Def P1-P2. J1 No load P1-P3. J2Rated load P1-P4. J3Cved Load P5-P6: Multi-function P5-P6: Multi-function P5-P6: Multi-function Programmable dual financion Programmable dual function P7 P8 Fig P1-P2. J1 No load P1-P4. J3Cved Load P5-P6: Multi-function Power Source AC/DC24V
P1 P2 v2 P3	Com Common terminal "Com": J1 2-channel solid-state relay output	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	terminal "Com": 3-channel solid-state
Interface Directions 84 64 77 77 77 77 77 77 77 77 77 77 77 77 77	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	J5 torque - 2. Digital remote	W analogue output, connect to system e compensation terminal; I communication terminal is used to connect the transforming system of EWD-AL1 with a distance 1000m, no need of shielded cable.
1. 2.	and the permanent damage from the state of t		P8" to exterior power source directly, f DC/AC 32V/50mA.

2, Exterior Dimensions & Installing Scheme

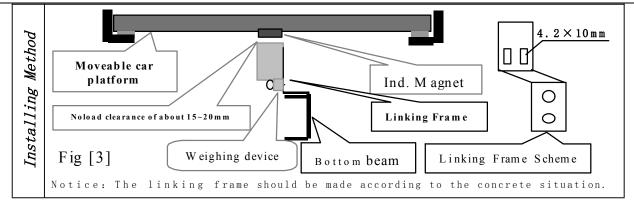


Notice on Installation

- 1. Install this device as near as possible to the center of elevator car platform or the original place of elevator overload switch. The system should be installed on the bottom bearing beam of elevator car platform with the inductive magnet adhering to the moveable car platform and the marking surface facing to the inductive point of the weighing device.
- 2. The system supporting frame should be made according to elevator concrete situation with the uneasily deforming material of thickness more than 4mm or with enforcing plate to avoid swaying.
- 3. Adjust this device so that the car platform magnet aiming to the center point of its upper section.

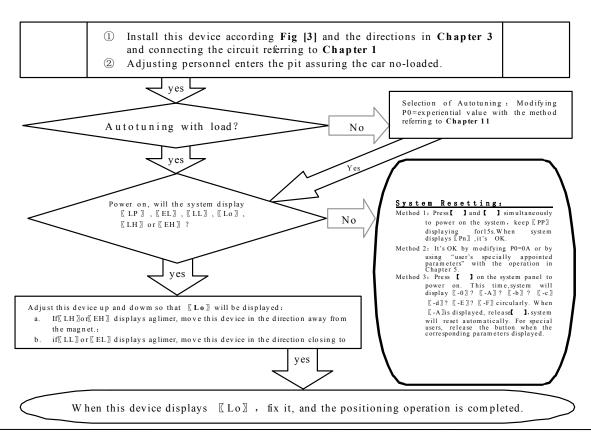
 Meanwhile, assure that the section of this device parallel to that of the magnet.

Technical File of the EWD-H-J3/J5/SJ3 Intelligent Elevator Load Weighing Device [User's Guide]



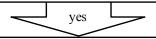
3. System Adjustment and Directions

① System Positioning Operation:

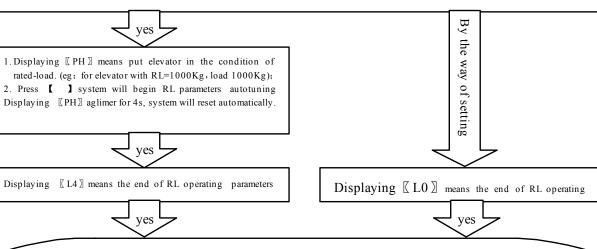


2 No load and Rated Load Operation Parameters for Autotuning:

When displaying <code>[Lo]</code>, press <code>[]</code> and <code>[]</code> simultaneously, the system will start no-load operating parameters autotuning. When <code>[PL]</code> is displayed aglimer for 5s, it is the end of no-load autotuning.



System will automatically enter the condition of rated-load autotuning. Displaying (PH) means the ready condition of rated-load autotuning.



By now, system RL autotuning is finished. System will enter normal operation condition. For the meaning of displaying code. please refer to Chapter 7.

- (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 temperature difference between winter and summer has an unneglecting effect on the elastic coefficient of car platform damping rubber;
 - 4The car platform appears damping rubber appears aging or deforming;
 - ⑤The elevator overruns at the top or at the bottom;
 - 6The weighing device becomes slack at the fixing end.

Operation Parameters Adjustment and the Implication

- 4. System Operation Parameters Adjustment (Annotation: * represents for a
 - hexadecimal value of " $0\sim9$, $A\simF$ ".)
 - ①Simultaneously press 【▲】 and 【▼】 on system control keypad to power on , this moment 〖PP〗 will be displayed aglimer, that means entering operation parameters modifying status.

 - ③When displaying [P*], press 【▼】, indication of system operation increases; press 【▲】, indication decreases.
 - (4) When displaying [**], press [▼], data value increases; press [▲], data value decreases.
 - ⑤Release buttons, system displays operation indication and configuring data alternately.
 - ®To modify other configuring datum, repeat the operation in item 3, item 4, item 5.
 - ⑦At the moment when system displays 〖P*〗, Simultaneously press 【▲】 and 【▼】, system will save modified datum for future use. This moment, system displays 〖Pn〗 for 1 second. System operation parameters modification of this time is completed.

Example: Modify parameter P2 to 16;

- ①Simultaneously press [A] and [V] on system control keypad to power on , this moment [PP] will be displayed aglimer, that means entering modifying status.
- ②Release 【▲】 and 【▼】 buttons, system will display 〖PO〗 and 〖**〗 aglimer
- ③When displaying [PO], press 【▼】 to increasing it to [P2];

- \P Release button \P , system alternately displays \P 2 and \P 4.
- ⑤When displaying [**], press [▲] or [▼] to regulate its value as [16];
- ©Release button, system alternately displays [P2] and [16];
- \bigcirc \bigcirc \bigcirc At the moment when system displays [P2], Simultaneously press [A] and [V], system will save modified datum for future use. This moment, system displays [Pn] for 1 second. System operation parameters modification is completed.

5. Implication of parameter P:

①Directions of Parameter PO [System Operation Mode]: :

Setting	Explanation	Default Setting	Normal Value
00	Normal Operation		
01	Sensor installing positioning, system no-load and rated-load autotuning operation.		00 This value
02	Specifying system no-load autotuning operation.	01	will be
03	Specifying system Rated-load autotuning operation.	01	modified in
04	Select "20% rated load" autotuning operation, being		the course of
	convenient for users special adjustment.		autotuning.
OA	To modify system configuring "J1, J2, J3" Dyn close valida parameters to default value solid state		
ОВ	forcibly. parameters to default value solid state relay output open tellow tel		
25~99 ×0.1mm	For elevator with known "no-load → rated-load" compressing moveable car platform damping rubber pad, it may be set manually. The system may be put into use after system installation positioning. (This adjustment is very convenient for elevator manufacturers. For more detail, refer to Chapter 10.)		

②Directions of Parameter P1

a) For setting of EWD-H-J3: [Hold input signal status setting and relay output condition setting]:

[5	Settir	ng	Explanation		Default Setting	User Setting
	00、0)1	O-Stepped output	0-P6 and P7 are short circuited,	00	
	10, 1	11		system output signal will be held.	Stepped output, short	
			1-dotted output	1-P6 and P7 are opened, system output	circuit for holding	
				signal will be held.		
е	g: P	1=]	11 represents inte	rior relay logic adopts "dotted output	t" After P6 and P7 are d	lisconnected, system

eg: P1=11 represents interior relay logic adopts "dotted output" After P6 and P7 are disconnected, system output signal will be held.

b) For setting of EWD-H-J5: [Relay logic and analog quantity output]

Setting		Exp1a	anation	Default Setting	User Setting
00~30	00	01	02~30	0.1	
00,~30	Solid state	Solid state	The controller select 8421	01	
	elay Dyn Close	relay Dyn Open	coding		

c) For setting of EWD-H-J5: [Relay logic and analog quantity output]

Setting		Explanation	Default	User Setting
			Setting	
	Higher bit	Lower bit		
$00 \sim 03$		1P5 and P6 are "0 \sim 10V" analog output		
$10 \sim 13$	0 - Stepped output	2P5 and P6 are " $10{\sim}0$ V" analog output	stepped	
	1- dotted output	3P5 and P6 are " $0\sim10$ V" digital output	output, $0{\sim}10$ V	
		4P5 and P6 are " $10{\sim}0$ V" digital output	P5 and P6 are	
		5P5 and P6 are " $4{\sim}20$ mA" analog output	analog output	
		6P5 and P6 are "20 \sim 4mA" analog output		

Note: Select P1=04 to realize $4\sim20$ mA current output and the residence at the loading end should be $250\,\Omega$ presently.

eg: Pl=11 means interior relay logic adopting "dotted output". Select analog quantity of "10~0V" output, P5 and P6 are analog output;

P1=02 means interior relay logic adopting "stepped output". Select analog quantity of " $0\sim10$ V" output, P5 and P6 are digital output. In cooperation with EWD-AL1 remote signal transferring device. (Users Option)

3 Directions of Parameter P2 [No-load parameter setting]:

Setting	Explanation	Default Setting	User Setting
00~30	When car load≤ rated-load×P2%, output	05	
	no-load signal.		

Directions of Parameter P3 [Light-load parameter setting]:

Setting	Explanation	Default Setting	User Setting
P2+1~60	When car load≤ rated-load×P3%, output	30	
	light-load signal.		

⑤Directions of Parameter P4[Semi-load parameter setting]:

Setting	Explanation	Default Setting	User Setting
P3+1~90	When car load≤ rated-load×P4%, output	70	
	semi-load signal.		

©Directions of Parameter P5 [heavy-load parameter setting]:

Setting	Explanation	Default Setting	User Setting
	When car load≤ rated-load×P5%, output heavy-load signal.	90	

**Directions of Parameter P6 [System overload coefficient]:

ı	Setting	D 1	D C 1.	User Setting
	bouting	Explanation	Default	osci scoring
			Setting	
	00~20	Overload triggering value> rated-load	05	

+(rated-load×P6)%

®Directions of Parameter P7 [Operation Status setting of Solid state relay "J1"]:

Setting		Explanation	Default Setting	User Setting
	Higher Bit	Lower Bit		
00~1F	When the status is active: 0—Contact Dyn Close 1—Contact Dyn Open	0-Select no-load operation 1-Select light-load operation 2-Select semi-load operation 3-Select heavy-load operation 4-Select rated-load operation F-Select over-load operation	00 (No-load Dynamic Close)	

@Directions of ParameterP8 [Operation Status setting of Solid state relay "J2"]:

Setting	Explanation	Default Setting	User Setting
$00\sim$ 1F	The same as the above	04(Rated load dynamic close)	

@Directions of Parameter P9 [Operation Status setting of Solid state relay "J3"]:

Explanation		Default Setting	User Setting
00~1F	The same as the above	OF(Over load dynamic close)	

(1) Directions of Parameter A [No-load auto-zeroing time interval]:

Setting	Explanation	Default	User Setting
		Setting	
	When the set time is reached, the system will begin no-load auto		
00~96	zeroing operation.	00	
(hours)	00— The system doesn't start-up no-load auto-zeroing function;	(Not start-up)	
	$12{\sim}96$ —After powered on for $12{\sim}96$ hours, system will begin to		
	check the load detaining time for no-load auto zeroing.		

(12) Directions of Parameter B [No-load auto-zeroing detaining time]:

Setting	Explanation	Default Setting	User Setting
10∼90 (Minutes)	After the auto-zeroing time is reached, system load doesn't change in this period and the system will allow to start auto-zeroing operation.	20 (Minutea)	

(3) Directions of Parameter C [No-load auto-zeroing error range]:

Setting	Explanation	Default	User Setting
		Setting	
03~19 (%)	After both (1) and (1) are satisfied, the ratio of present load to the absolute value of the original no-load value is larger than this setting, the system will start No-load auto-zeroing. Higher bit is "0" Higher bit is "1" The system will do No-load auto-zeroing on auto-zeroing on lower bit value (3~9%); load balancing compensation. a. Lower bit value "3~9" is no-load auto zeroing error range. b. Higher bit value of "1": For the affecting of several reasons, elevator no-load point change doesn' t lead to the change of balance for the rated load point. So it is recommended for the ordinary users not to start this function.	05% (No-load error >5%, system will do no-load zeroing)	

Q4 Directions of Parameter **D** [Displacement-expanding Setting]:

Setting		Explanation	Default Setting	User Setting
01~03 11~13	Higher Bit	Lower Bit 1. Select sensor 0~9.9mm valid;	01 displacement	
11 13	O-load increasing, displacement closing. 1- load increasing, displacement apart.	2. Select sensor 0~19.9mm valid;3. Select sensor 0~29.9mm valid;	closing , 10mm valid	

Notice: ①Select unindicated setting will lead to system abnormal operation.

②For the variety of the fleeting of elevator no-load point, special care should be taken in the use of PA, PB a nd PC for No-load auto-zeroing. It is suggested to forbid or to allow this function according to the user's concrete situation.

③Even if auto-zeroing function is in use, autotuning operation should be done again in the course of periodica l maintenance.

Explanation of Displaying Code:

6. System Normal Operation Code: ("W" is the present effective load)

I	Display Code				Indication
	L0	No-load car	Outpu	ıt No-load signal	No-load: 00≤W≤Rated-load×P2%
System	L1	Light-load car	Ou 1	put Light-load	Light-load: No-load ⟨W≤Rated-load×P3%
displays 〖L*〗				signal	
	L2	Semi-load car	Output	Semi-load signal	Semi-load: Light-load ⟨W≪Rated-load×P4%
	L3	Heavy-load car	Ou t	put Heavy-load	Heavy-load: Semi-load ⟨W≤Rated-load×P5%
				signal	
	L4	Rated-load car	Ou t	put Rated-load	Rated-load : Heavy-load <w +<="" rated-load="" td="" ≤=""></w>
			signal		Rated-load×P6%
	LF Over-load car		Output	0ver-load signal	Over-load: W> Rated-load
[**] (only for EWD-H-SJ3)	0.0~9.	9∼10 displaying an	alog vo	ltage %	
[[U*]]	8421 ou	tnut			~1F, 0≤*≤parameter "[P1]+1"
(only for	0421 00	tput	Displaying [8*] means the tested value is larger than "Ol		means the tested value is larger than "OF"
EWD-H-SJ3)					
① Press【▲】	① Press 【▲】, system displaying [4.7] means the max compression "no load→rated load" of this moveable car platform				
is "4.7mm". User may save this value for future use.					
② Press 【▼】, system will display the present moveable car platform load. Displaying 〖1.2〗 means the compression					
of "1.2mm" from no load condition.					
For user t	For user to save: the code of this elevator Rated-load Compression: mm				

7. Code for Other Operation and Failures

Technical File of the EWD-H-J3/J5/SJ3 Intelligent Elevator Load Weighing Device [User's Guide]

	Display Code	Indication		Solution
1	FY	System S	tartup	
2	Pc	System R	esetting	
3	PP	Get into	the status of opera-	tion parameters modification
4	PL	Autotuning	No load parameters (Static	Displaying represents preparative status, twinkling displaying for the end of testing)
5	PH	Autotuning	Rated load parameters (Sta	tic Displaying represents preparative status, twinkling displaying for the end of testing)
6	LL	Installat	Too big Positioning	Move this device closing to the magnet
7	LH	ion and	Too small Positioning	Move this device away from the magnet
8	Lo	positioni	Accurately Position	
9	LP	ng	Interior Auto Correc	etion
10	P*	System C	onfiguration Indicat	ion
11	Pn	Saved		
12	EA	Saving F	ailure	Modify the operation parameters
13	EJ	Without	this system setting	Check system setting value
14	ED	Car platfo	rm deformation deficient	Affirm elevator in the condition of rated load
15	EC	Car platfo overflowin	rm deformation g	Damping rubber is too soft, adjust PD
16	EH	Incorrect in magnet	nstallation place of the	Check the magnet installation place
17	EL	Incorrect in magnet	nstallation place of the	Check the magnet installation place, pay special attention to polarity and distance.

How to do?

8. Brief Analysis of Other Conditions:

①After installation of this weighing device, weighing signal changes in the course of operation?

The elevator load output value is not held after elevator starts, adjust the relative items of the inverter and controller.

- ②After long-term of operation, system no load zeroing point appears larger deviation?

 May be caused by the reason described in section 3, Chapter 3. Set system Autotuning mode to calibrate again
- ③After the elevator weighing is changed from heavy load to light load, heavy load signal is still displayed?

 The movement of the moveable car platform is blocked, it is not reset after pressing. Solute the relevant mechanic problems.
- ④System output signal doesn't change linearly along with the change of load?

 Check the structure of the moveable car platform, pay more attention that there should only be one pair of damping rubber or spring moving relatively to the moveable car platform.
- ⑤During the system operation, analog output is abnormal or system resetting or speed-regulator cooperation is abnormal?
 - It may be caused by system power source series interference. Select another group of power to supply the system, or to provide an exterior power of AC/DC 24V/300mA to supply.
- 9. How to set an elevator with known "no-load→rated load" compression deformation?

For example: The max "no-load→rated load" compression deformation of this elevator is 5.8mm.

1.Modify "P0=58" and save it. Refer to chapter 5;

peration

2.After system restarting, 《LP》 is displayed. Wait until 《LL》, 《Lo》 or 《LH》 is displayed;
3.When the car is empty, adjust system installation position to make it display 《Lo》, fasten it;
4.When《Lo》 is displayed, press 【▲ 】 and 【▼】 simultaneously, system begins to autotune no-load operation parameters;

5.After [PL] is display aglimer for 5 second, the whole process of autotuning is finished.

10. How to do Re-Autotune operation for system?

- Method 1: Simultaneously press 【▲】 and 【▼】 on system control panel to power on. This moment, system aglimmer displays 〖PP〗 and 〖P-〗. Keep 15 seconds, system will display 〖Pn〗. On that occasion, all operation parameters reset to default settings.
- **Method 2:** Modifying parameter P0=0A or user specified operation code will reset system immediately to default status. But for users with specified code. The method is

mentioned in Chapter 5.

11. How to modify output status of a system after autotuning is finished?

Modify the corresponding controlling parameters of parameter P respectively. The method is mentioned in Section 6, Chapter 5.

12. How to get the version code of the product?

Press $[\![\, \, \, \, \,]\!]$ to supply power. System displaying $[\![\, \, \, \, \, \,]\!]$ $[\![\, \, \, \, \, \, \,]\!]$ means that this product is of V1.2 relatively to **USER'S GUIDE.**

13、More on "P5、P6" multi-function terminals of EWD-H-SJ3:

Lower bit		Output status of terminal "P5~P6"			
setting of Parameter	P5 "	P5 "+"; P6 "-"			
Rarameter RP27					
X 0		0~10V			
X 1	Analog	10~0V	For short distance connection, analog torque compensation speed regulation system is required.		
X 2	Digital	0~10V	For user's selection of "EWD-AL1" remote transmitting system,		
Х 3	Digital	0~10V	analog of $0{\sim}1000$ meters remote digitally transmitting		

14. How to adopt 20% rated load for rated load autotune?

Modify P0=04. After [Lo] positioning and no-load [PL] autotuning, in the period of system displaying [PH], load 20% of the rated load, press [V], system displaying [L1] means the end of adjustment. This is an auxiliary method when 100% autotuning can be done.

- 15. The compression of car damping rubber exceeds the sensor inspection range?

 Before autotuning, be assure to select "PD"="02/03" and save it. Then, readjusting the installing position of the sensor is OK (See parameter PD for more details).
- 16. On adopting operation of "load increasing, displacement aloofing" method?

 Before autotuning, be assure to select "PD" = "1*" and save it. Then, readjusting the installing position

of the sensor is OK.

System Characteristics

17. Working principle of "EWD-H-J3/J5/SJ3" elevator weighing device

With the constantly development of elevator technology, the impact of elevator weighing device on elevator performance can not be neglected. The requirement of elevator for weighing devices with high accuracy, high reliability and multi-functions becomes extremely urgent. Presently, the progress of sensor technology and microcomputer is ceaseless. With the adoption of highly accurate Hall sensor, the change of displacement along with car platform load can be checked. Meanwhile, with the adoption of single chip microprocessor, scientific calculation can be done, making this device weigh the elevator car load effectively. With the cooperation of EWD—AL1 remote signal transferring device, analog or digital signal can be transferred far away, largely enlarging the user's application range and decreasing the additional cost in the course of use.

18. 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) Wide induction range, high accuracy positioning, intelligent temperature compensation making the range of operating temperature wider.
- (4) 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.
- (5) Having the controllable function of "automatically return-to-zero at no load"
- (6) Having the analog voltage output ports, greatly improving elevator performance in coordination with elevator speed regulator.
- (7) Having the function of remote digital communication, fulfilling remote data transmitting together with "EWD-AL1".
- (8) Adopting strong inductive magnet, improving the anti-interference capability of the system to the utmost.
- (9) Each set has passed strictly aging treatment to assure reliable operation.

- 40 The system is based mathematical equations and scientific calculation, correcting inspection error automatically.
- (1) On-site adjustment is easy, either by autotuning or by manual displacement setting.
- (12) The independent development of the programmable output signal control method can be used for all kinds of traction elevator with moveable car platform.

19. Technical specifications:

1.	Applica	ation	Being applicab	le to all moveable car platform elevators, with an auto inspection			
			range of (2.00)	nm ≤carplatform movement≤10.00mm); manual setting displacement range			
			2.5∼9.9mm (re	elate to parameter PD)			
2.	Sensiti	ivity	Elevator rated 1	oad/200 (With the rated load of 1T, it is 5.0Kg)			
3.	System Er	ror	≤1.5% (5~40°C)	In the whole temperature range≤3.0%			
4.	Non-Line	earity	≤1.0%				
5.	5. Output Relay Mode:			①3/5 channel programmable output modes are: No load, light load, semi full load, heavy load, rated load, overload (customer may set the changing range freely). ②Each channel can be programmed as dynamic Close or Open contact. ③Contact Capacity:DC/AC 32V/15mA。 rom "no load" rated load", analog quantity: 0~10V linearly changing attion, with the cooperation of "EWD-AL1" to relies datum remote transfer.			
6.	-			action, with the cooperation of Ewb ALI to refres datum remote transfer.			
—			-25~75°C				
7.	7. Ambient		[-20~55℃	−20~55°C			
	Temperature:						
8.	8. Relative		20%∼99%RH				
	Humidity	7 :					

9.	Reaction Time	≤0.25 Second
10.	Power Supply:	AC/DC 24(±10%)V/150mA
11.	Installation Place:	Moveable car platform of elevator
12.	Overall Size:	$45 \times 45 \times 90 \text{ mm}^3$

^{♣*:} The intension 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) For any requirement of special functions, make it out by mail.
- (3) Any system abnormality in adjustment or operation, please contact our company directly.

0thers

1.Accessory	Instruction Manual Inductive magnet $[20 \times 20 \times 4\text{mm}^3]$	1 copy Fixing Screw set 2 sets 1 piece
2. Parts for selection 3. address book:	EWD—AL1 remote signal tran	sferring device for another order.
	2 029-88416613 18092639750)
	29-85565714-886	ⁿ 710068