

# **EWD-RL-TJ2**

## **User's Guide**

(V2.2)

Xi'an Excellent Electromechanical Co., Ltd.

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- **Declaration:**

In any case, our part is only responsible for the product own quality within the warranty period.

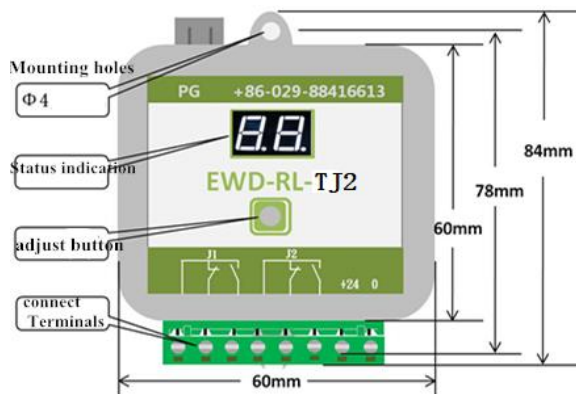
- **Description:**



- 1.State Indication    —    Flickering: About “Once per Second”;
- 2.Button Operation    —    Press: Press and release soon; Hold: Press constantly;
- 3.Relay    —    Keep the state of Picking-up in the period of system being .

## ● Main Features:

1. The system is of the structure of sensor with the domination of loading cell and controller, which can be installed at the car-side rope hitch;
2. Directly outputting full-load or overload signal depending on the change of elevator car payload;
3. Simple adjustment, high precision of measurement and quick and easy installation.

## ● Product Appearance, Installing Method and Relevant Structure



Description		
PG	Connect load sensor	
	Button, use for adjust	
<div> <div>Status indication</div> <div></div> </div>	L0	No adjust (No-load self-learning)
	J0	Load < 90% Rated load (J1, J2 relay is released)
	J1	Load ≥ 90% Rated load (J1 rated relay is closed)
	J2	Load > 100% (J2 rated relay is closed)
PJ.1~3	J1 Full load output	
PJ.4~6	J2 over load output	
PJ.7~8	System power supply DC24V/100mA	


● **Weighing device debugging under other circumstances:**

If the following reasons occur, the working parameters of the weighing device need to be revised again.

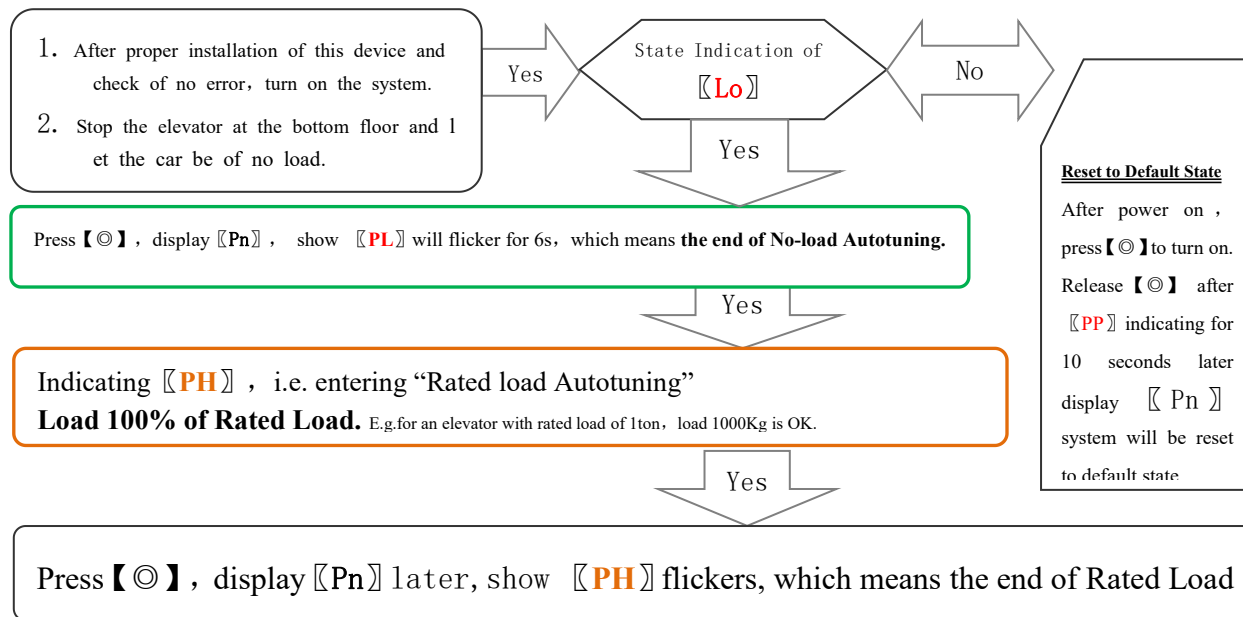
The modification method is the same as above.

1. The elevator changes the decoration of the car, so that its self-weight changes;
2. The pull of the wire rope appears large imbalance phenomenon;
3. The phenomenon of rushing to the top and squatting to the bottom;

● **Sensor selection and installation:**

Load sensor	Model	Description	Size and install method
	XCL-YL-C	Type "C" load sensor	See attached page

## ● System Adjustment:



After the system debugging is completed, during normal operation, press and hold **[⊙]**, **[J1]** / **J2** alternately flashing, while J1 / J2 alternately output.

● **Load multiplier parameter modification operation: (unlearned system is required to operate)**

1. system Power off;
2. press **【◎】** power-on, show **【PP】** released: (Note: press **【◎】** 10 Seconds, over Seconds system will clear the existing data back to the factory state)
3. During Show **【Pd】** and **【01】** enter Full load、over load Multiplication mode, and show number **【01】** is the multiplier of the rated load.
4. During show **【01】** flicker, press **【◎】**, Multiplication will increase, until **【30】** later, Will loop back **【01】** Start to increase again。After reaching the desired multiplier, press **【◎】**, keep 2-3 seconds, display **【Pn】** Remember and save the value, Into normal mode of operation.  
(exp: For already has the amount of memory learning 1000Kg elevator, **【Pd】** The parameter is modified to 05, choose 5 Multiply, full load 90%x5000Kg; over load 100%x5000Kg;)

Yes

Return to normal working condition

## Technical Specifications:

1.	<b>Application Range</b>	Suitable for all traction, hydraulic, strong drive elevator use (load range depends on sensor range)
2.	<b>Sensitivity</b>	For the elevator with rated load of 1 ton, it is 5Kg
3.	<b>System Error</b>	≤1.5% (5~40℃)
4.	<b>Output Mode</b>	Switching Signal : Full-load and overload Dynamic Close and Dynamic Open contact

5.	<b>Operation Temperature</b>	-20～55℃ )
6.	<b>Power Source</b>	DC 24V(±10%), Operating current for the whole set≤100mA

●\*: Intensity exceeding the above listed parameter limits may cause the system abnormality or its permanent damage.

### ● Description of Other Indication States:

	<b>Display Code</b>	<b>Implication</b>	<b>Solution</b>
1	YS	System Start up	
2	PC	Sensor Resetting	
3	PP	Get into the status of operation parameters modification	
4	Lo	Ready for Auto tuning Operation	
5	PL	No payload is detected by sensor	(Static Displaying represents preparative status, twinkling displaying for the end of testing)
6	PH	Self - learning parameters	
7	Pn	Memory is complete	

### ● 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.Packing List:

Elevator Overload Device Controller EWD-RL-TJ2	1PCS
Load Sensor and its accessories	1SET
Screw Sets M4 X 40	2SETS
System Instruction Manual	1PCS

2.Address book: Xi’ AN EXCELLENT ELECTROMECHANICAL CO.,LTD

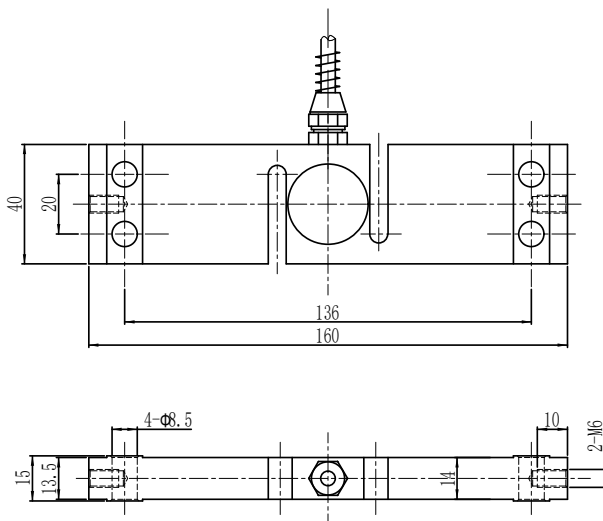
 : (029)88416613, 18092639750  : 7D, Block A, Olympic Building, 14th Ch  
ang An North Road, Xi'an, Shaanxi,China



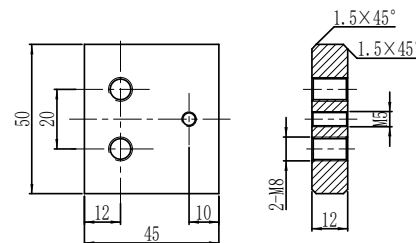
## Attached page:

1、XCL-YL/C sensor size and installation position diagram and installation precautions

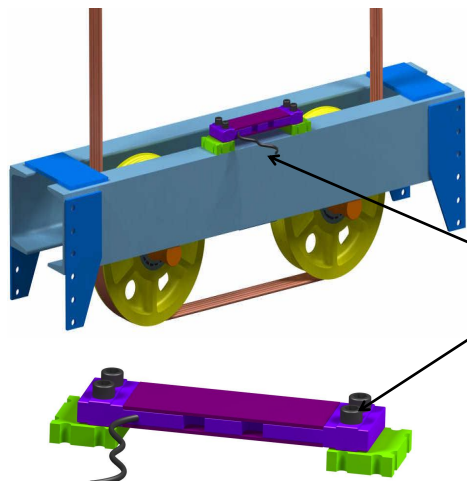
1、Sensor size diagram:



Force transfer plate size:



## 2.Installation Method:



The green part is welding accessories, totally 2, each "left , right, back" 2 welding points; The user can weld the Fukien with the load-bearing beam.

## 3. Precautions for installing the controller and sensor:

3.1 The controller part should be installed in the control box on the top of the car, and it is better not to be close to the elevator electronic weighing device transformer, governor and other equipment. In all cases, sensors and controllers shall be installed away from heat sources;

3.2 "C" type sensor The sensor is installed above the bearing beam,

and the connection between the controller is better than 110V, 220V and other power supply in the same wiring slot;

3.3 Connect the sensor wiring port to the PG port of the controller, and connect PV to the power line according to the requirements of the weighing device. Be sure to pay attention to the voltage level;

3.4 Power on the weighing device after the check is correct, and the controller shall be displayed in the corresponding working mode.