EWD-RL-J3　elevator overload device Manual(V2.2)

● **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.

● **Technical Specifications：**

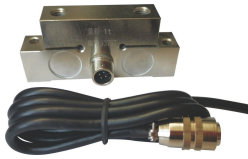| 1.	**Application Range**	Suitable for all traction, hydraulic, strong drive elevator use (load range depends on sensor range)
2.	**Sensitivity**	For the elevator with rated load of 1 ton, it is 5Kg
3.	**System Error**	≤1.5％(5～40℃)
4.	**Output Mode**	Switching Signal：light load and Full-load and overload Dynamic Close and Dynamic Open contact
5.	**Operation Temperature**	-25～55℃
6.	**Power Source**	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.

● **Product Appearance, Installing Method and Relevant Structure**
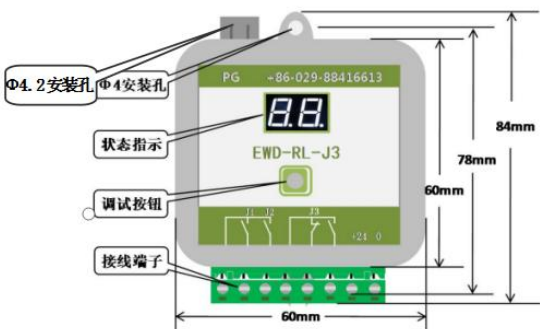
The code description of the normal work of the digital tube		
PG	Connect　load sensor	
⬤	Button, use for adjust	
Status ndication	L0	No　adjust
	J0	Load ＜90%Rated load(J1、J2、J3 relay is released)
	J1	20% load ≤ current load < 80% load (J1 relay suction
	J2	80% Load ≤ Current load ≤100%(J2 relay suction)
	J3	Current load > 100% (J3 relay suction)
PJ.1~3	J1 J2 Light load 、Full load output	
PJ.4~6	J Over load output	
PJ.7~8	System power supply DC24V/100mA	

● **Sensor selection and installation：**

Load sensor			
Model	XCL-Y/3411	XCL-YH/5018	XCL-T/A（20）
Dimensions	See photo	See photo	See photo
Load sensor			
Model	XCL-T/B（20）	XCL-ZL/P2	XCL-ZL/W
Dimensions	See photo	See photo	See photo

System Adjustment：

1. After proper installation of this device and check of no error，turn on the system.
2. Stop the elevator at the bottom floor and let the car be of no load.

State Indication of 〖**Lo**〗

Yes — Yes — No

Press【◎】，display〖Pn〗， show 〖**PL**〗will flicker for 6s，which means **the end of No-load Autotuning.**

Yes

Indicating〖**PH**〗， Enter "load self learning state" load 100% weight
For example, for a 1T load elevator, load 1000kg

Yes

Press【◎】，display〖Pn〗later,show 〖J2〗flickers, which means the end of Rated Load Autotuning

Reset to Default State
After power on，press【◎】to turn on. Release 【◎】 after 〖 PP 〗 indicating for 10 seconds later display 〖 Pn 〗 system will be reset to default state

After the system debugging is completed, during normal operation, press and hold [◎], 〖J1〗 / J2〗/J3〗 alternately flashing, while alternately output.

- **times the load multiplier to modify the operation: (need to debug a good system 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，

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.

5.（For example:For the elevator with load memory learning of 1000kg, parameter [Pd] is modified to 05, select 5 times, full load 90%x5000kg; Overload > 100%x5000kg;)

（Note：By default, the parameter [Pd] of weighing device is [01], which means no multiplication, and [30], which means 30 multiplication. This parameter is used cautiously）

Yes

Return to normal working condition

- **Description of Other Indication States：**

	Display Code	Implication	Solution
1	EL	Sensor unpressurized	Check whether sensor cables are properly connected and grounded
2	YS	System Startup	
3	Pd	Control box load multiplication parameter	
4	PP	Get into the status of operation parameters modification	
5	Lo	Ready for Autotuning Operation	
6	PL	Self-learning no-load parameters	Flashing displays indicate memory parameters
7	PH	Self-learning load parameter	The static display indicates the ready state
8	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**

| Packing List	Controller of EWD-RL-BJ2 Elevator Loading Device	1	Load sensor and accessories	1Set
	Screw Sets M4 X 40	2 Sets	System Instruction Manual	1 Copy

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

☎ ：(029)88416613　85565174　📠 ： 7D，Block A, Olympic Building, 14th Chang An North Road, Xi'an, Shaanxi,China
(029)85568478

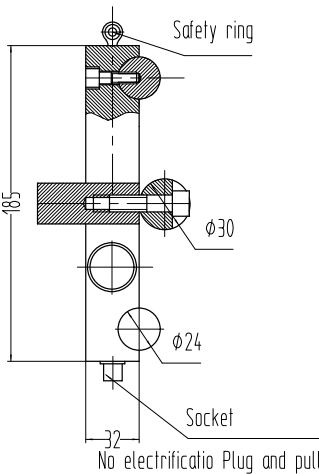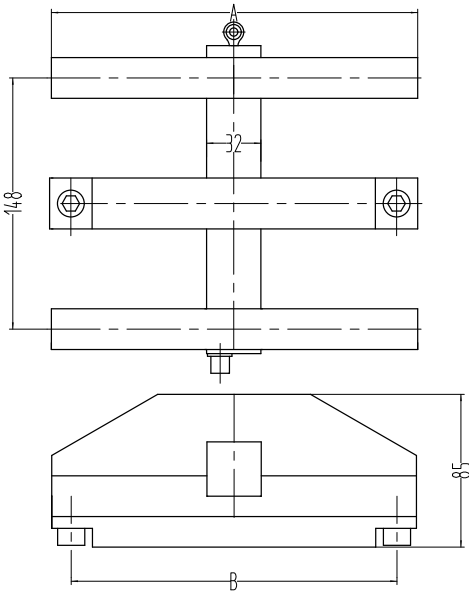**Technical support:** 18092639750　18092639752

Attched document：

Load sensor dimensions and installation

1. XCL-Y/8625 loading Sensor size and installation method

1.1 size (range:12KN、22KN、30KN、40KN、50KN、70KN)
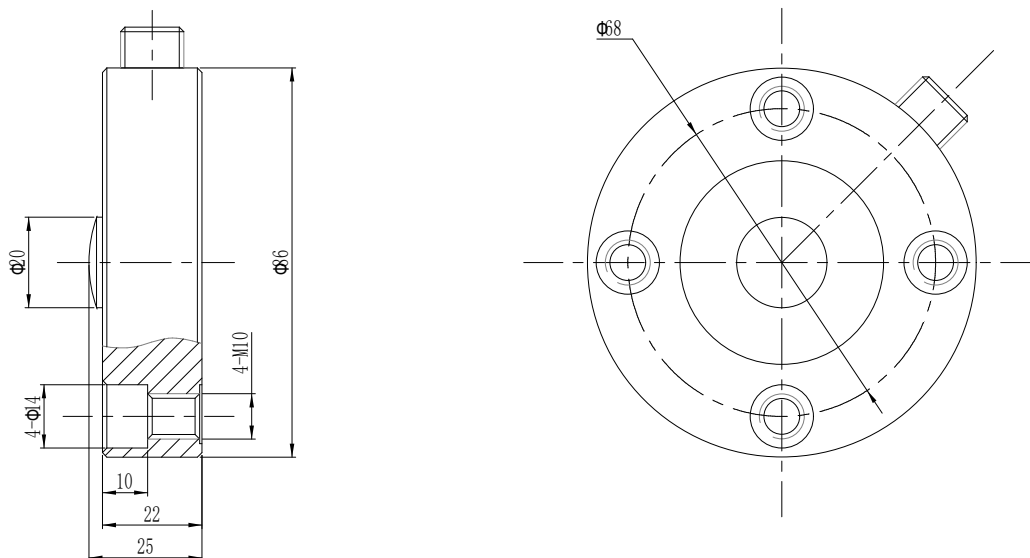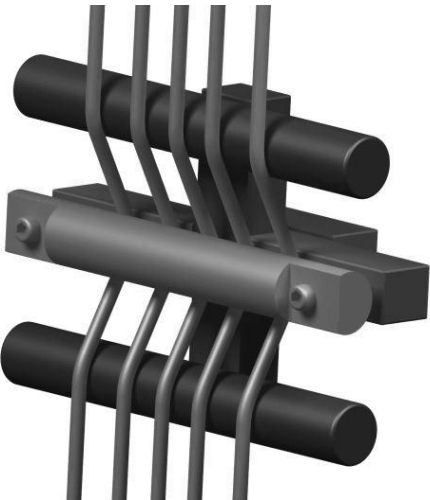

Bar size chart
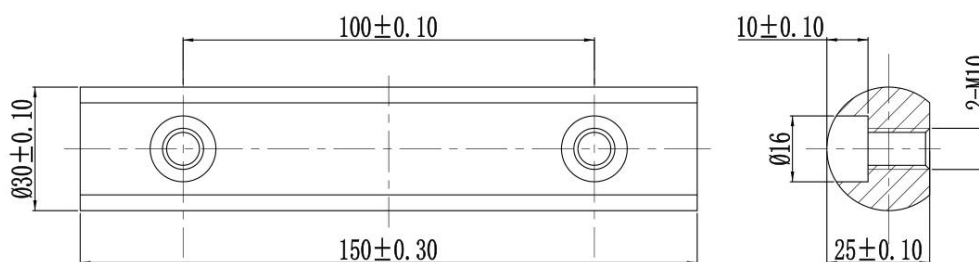
1.2　install method

2. XCL-ZL/W Standard character "王" tension sensor size and installation method
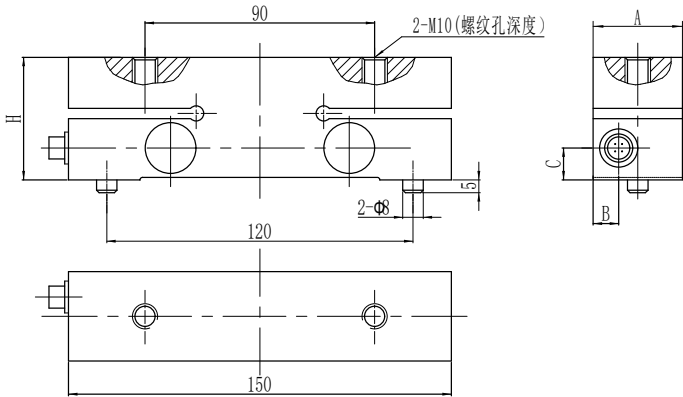
2.1 Size of load sensor   2.2   install method

Range	Size	
KN	A	B
20	216	192
50	260	238

3.XCL-T/A Standard character "一" load sensor size and installation method

3.1   load sensor size

Range	Size				
KN	H	A	B	C	Thread hole depth
10	41	25	8	12.5	Through-hole
15	41	25	8	12.5	Through-hole
20	41	25	8	12.5	Through-hole
30	48	35	10	12.5	Through-hole
50	48	35	10	12.5	Through-hole
70	60	35	8	17	18
100	60	35	8	17	18
150	70	35	8	21	18

3.2   install method
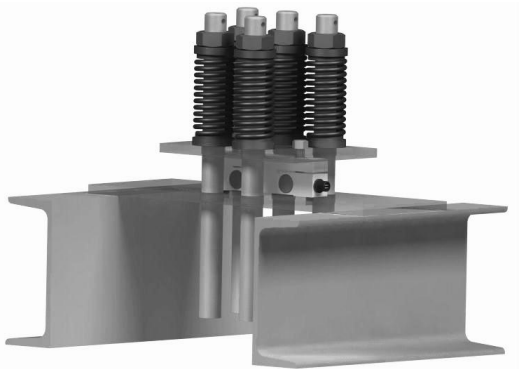
4.XCL-T/B Standard character "一" load sensor size and installation method

4.1　load sensor size
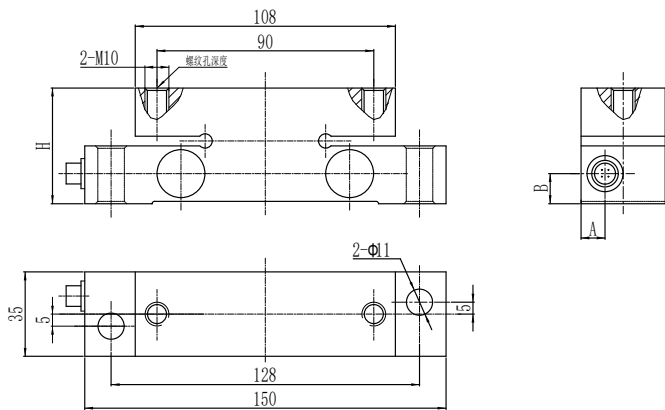
Range	Size			
KN	H	A	B	Thread hole depth
30	48	10	12.5	Through-hole
50	48	10	12.5	Through-hole
70	60	8	17	18
100	60	8	17	18
150	70	8	17	18

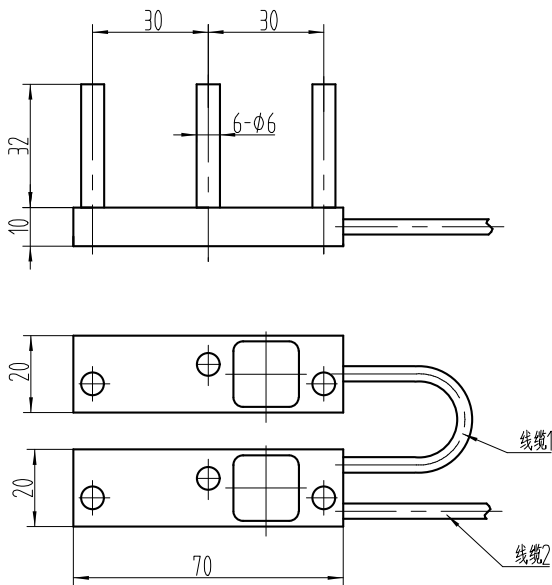### 4.2　install method

5.XCL-ZL/P2 load sensor dimensions and installation method：

5.1 size（range ：5KN 、8KN）　　　　5.2　install method

线缆1

线缆2

6.XCL-ZL/P3 load sensor dimensions and installation method：

6.1 size（range ：5KN 、8KN）

6.2 install method

XI'AN Excellent Electromechanical Co. Ltd
Add.: 7D，Block A, Olympic Building, 14th Chang An
North Road, Xi'an, Shaanxi,China

http://www.xaest.com ☎： (029) 88416613、85565714、85568478

✉：710061

第7—7页