

MANUAL INFORMATION

• Introduction

This system is applicable to all elevators with moveable car platform in need of overload signals. This device is of extremely high performance-price ratio. This appliance is to overcome the inherent disadvantage of the mechanical overload switch and to replace it.

• Main Property

1. Working in a contactless and inductive way. No mechanical movement itself. Being directly installed in the original place of overload switch. No necessity of changing the mechanism of elevator car.
2. Adopting strong inductive magnet, improving the anti-interference of the system to the utmost.
3. The electrical property is in compliance with the standard of the International Electrotechnical Commission (IEC).
4. Rated relay dynamic open, overload relay dynamic close and output-break are easy to use for customers.
5. More accurately positioning, small overall size, easy installation and adjustment, simple structure and low price.

• Technical Specification

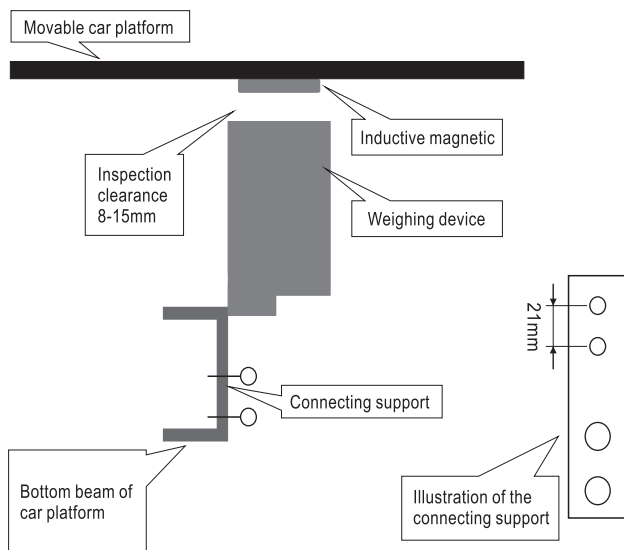
1	Application Range	Applicable to all elevators with moveable car platform in need of overload signal with a inspection clearance of 8-15mm.
2	Sensitivity	Overload turning point \leq Rated load adjusting point $\pm 0.05\text{mm}$. Rated load \rightarrow overload retention gap $\approx 0.50\text{mm}$.
3	System Error	$\leq 1.5\%$ (+5~ +40 $^{\circ}\text{C}$)
4	Output Mode	1 pair of relay dynamic CLOSE or dynamic OPEN contacts respectively with the capacity of DC/AC 48V/500mA.
5	Ambient Temperature	-25 $^{\circ}\text{C}$ ~ +55 $^{\circ}\text{C}$
6	Power Supply	AC/DC 24V($\pm 10\%$)/15mA. The operating current of the whole machine ≤ 100 mA.
7	Install Position	Moveable elevator car platform
8	Overall Size	30x30x58mm

• Working Principle

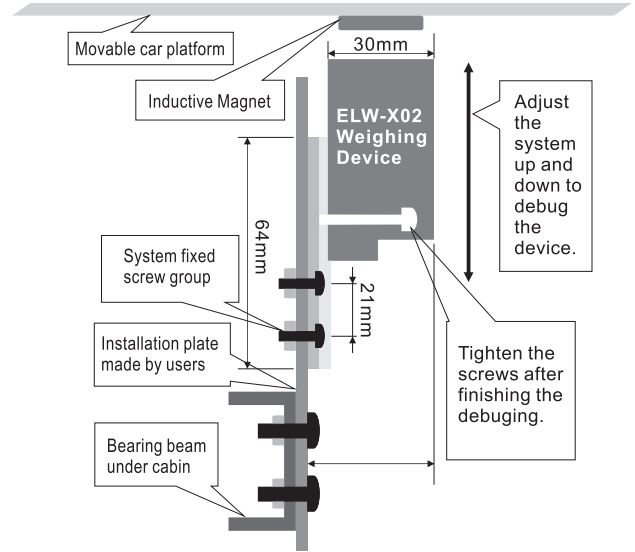
This system weighs the elevator car load based on the principle of the elastic deformation of movable elevator car platform caused by loading with the HALL sensor measuring the change of displacement, fulfilling the aim of load weighing.

• Installing Method

Installing method for moveable car platform.



Attention: The system connecting support should be prepared by the customer according to the concrete condition.



• Adjustment

1. Please refer to the above figure to install this device with the connecting support (made by the customer himself) close to the middle part of the car platform as near as possible.
2. Let the magnet adhesive on the car platform with the marking-face right facing the induction point of the device.
3. Install and adjust this device so that the magnet on the car platform aims at the center point of its upper face. Meanwhile, assure the end face of this device in parallel with that of the magnet.
4. When elevator is of rated loaded, adjust this device up and down to make the indicator just turn green, red one turn down, at this time fasten this device and the adjustment is finished.
5. At the time of overload, indicator of this device keeps green and red on.

• The Principle Of System Wiring

Do use the Dynamic Open or Dynamic Close at the same time with full load or overload when system wiring, avoid cross using.

Wire	Function		Explanation
Brown, Blue	System Operating Power		AC/DC24V($\pm 10\%$) /100mA
Red, Black	Full load relay	Dynamic CLOSE contact	Contact Capacity: DC/AC 48V/500mA
Red, White	Overload relay	Dynamic CLOSE contact	
Red, Gray		Dynamic OPEN contact	

Note: Output wire of this device must not be connected with external power supply to avoid everlasting damage.

• Others

1. Accessory: Inductive magnet [20x20x4mm] 1 piece
Fastening Nut: 2 sets
2. If there is any abnormality during adjustment or operation, contact our directly.
3. Attention: The inductive magnet is specially made of rare earth magnet with strong magnetism for this product. Take special care in the course of installation. Don't let it close to the high temperature above 100 $^{\circ}\text{C}$ to avoid demagnetization and our company will not be responsible for the personal hurt and equipment damage arising from this.