



# LC-MV59X

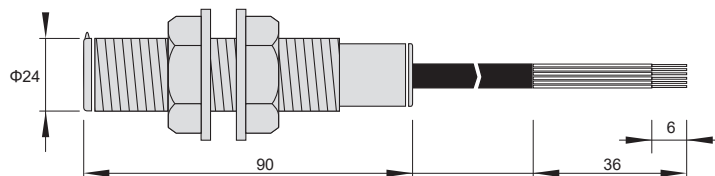
## ELEVATOR'S LOAD TESTING DEVICE

NINGBO ANT ELECTRONIC CO.,LTD

### Working Principles

The system is based on the principle that elevator changes flexibly according to load. Test displacement by Hall Sensor to find out whether elevators are in overload status.

This device is suitable for movable elevators that need overload signals and automatic staircases that need energy-saving operation. This device has great performance, which can overcome intrinsic disadvantages of mechanical overload switches.



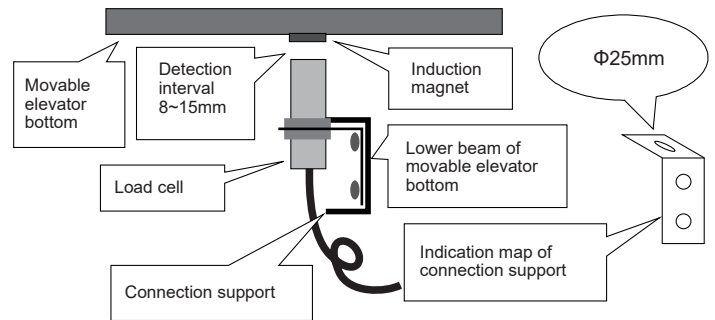
### Main Features

- No-contact induction operate mode, without mechanical movements, directly installed in the position of original overload switches, without changing elevators' structure;
- Applying high-tensile induced magnet, maximally improving anti-interference ability of the system;
- Electric property conforms to the standard of "International Electric Community";
- Accurate in localization, small in volume, and convenient in installation and debugging. Simple in structure, cheap in price.

### Technical Indicator

Range of application	Suitable for all movable elevators that need overload signals, with testing gap 8~15mm
Sensitivity	Overload turnover points rated load adjusting point $\pm 0.05\text{mm}$
System deviation	$\leq 1.5\%$ (5~40°C)
Output form	each pair of relay's normal opened and normal closed contact, with contact capacity: DC/AC 48V/500mA
Temperature in working environment	-25~55°C
Power supply	DC/AC 24V ( $\pm 10\%$ ), Overall operating currents $\leq 100\text{mA}$
Installation site	Movable elevator
Overall size	$\Phi 24 \times 90$ mm circular cylinder

### Installing Methods



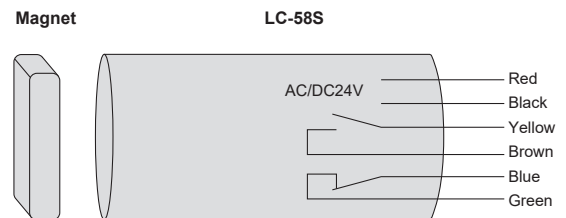
Movable elevator bottom installation

#### Attention:

system connection support can be prepared by the customers themselves

- Using connecting support in the above picture to install movable elevator bottom, with this device in the middle of the bottom as far as possible.
- Make the magnet absorbed on the elevator bottom, with the marking side opposite to the induction point of the device.
- Install and debug this device, making magnet on the elevator bottom opposite to the central point of the top. Simultaneously must guarantee that end surface of the installment and end surface of the magnet mutually parallel.
- When the elevator is in rated load, adjust this device from head to foot to make indicator to be green, and at this moment, fix this device and debugging is done.

### Connecting Principles Of The System

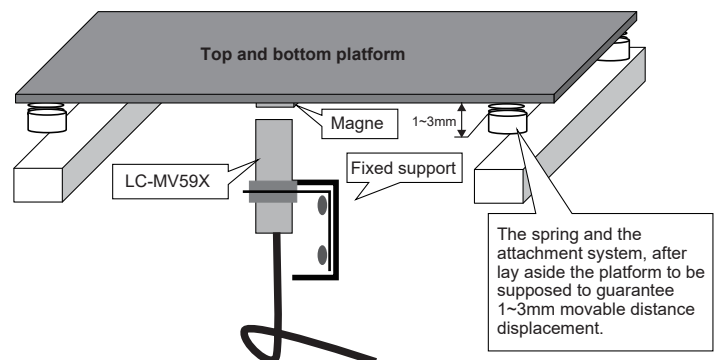


Wire	Function	Directions
Red, black	Power of the system	Working power AC/DC24V ( $\pm 10\%$ )/100mA
Yellow, brown	Normal opened contact of the overload relay	Contact capacity: DC/AC 48V/500mA
Blue, green	Normal closed contact of the overload relay	

### Note

- Do not directly connect output wire to outside power, which may cause permanent damages
- The induced magnetic matches the special rare earth magnet of the product. As it has powerful magnetic, be careful in installation; keep magnet away from high temperature above 100°C at any time to prevent demagnetization; We will not be responsible for losses of person and equipment from this.

### Installation Diagram



### Others

#### Appendix

Induced magnet [20×20×4mm <sup>3</sup> ]	1 piece
Tap bolt	2 sets

If the system becomes abnormal in debugging and using, please directly contact us.

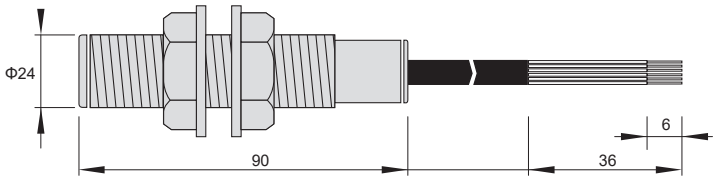


宁波市艾特电子有限公司

LC-MV59X 电梯载荷装置  
安装使用说明书

原理描述

本装置适用于所有需要超载信号的活动轿底电梯和需要节能运行的自动扶梯，具有极高的性价比，克服了机械式超载开关灵敏度不高的固有弊病。



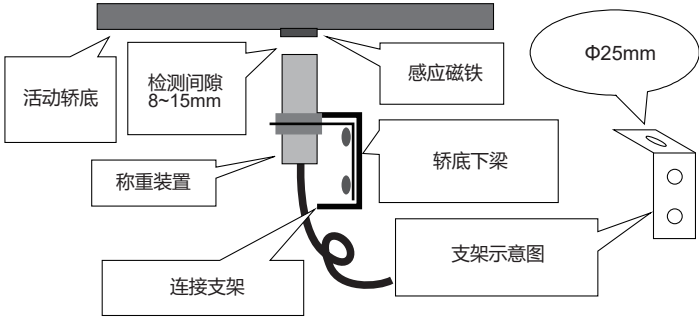
主要特点

- 无接触感应运行方式，无机械运动，直接安装在原超载开关位置，不改变电梯结构；
- 采用高强度感应磁铁，最大限度地提高系统抗干扰能力；
- 电气性能符合 "IEC"标准；
- 定位准确，体积小，安装调试方便。

技术指标

应用范围	适用于所有需要超载信号的活动轿底电梯，检测间隙8~15mm
灵敏度	超载翻转点≤额定调整点±0.05mm
系统误差	≤1.5%(5~40℃)
输出形式	继电器动合、动断触点各1对，触点容量：DC/AC 48V/500mA
工作温度	-25~55℃
供电电源	DC/AC 24V(±10%)，整机工作电流≤100mA
安装位置	电梯活动轿底
尺寸	Φ24×90 mm

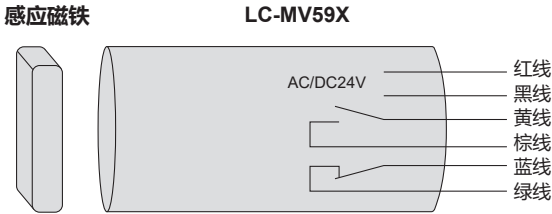
安装方法



**注意：**  
系统连接支架可以由客户自己准备。

- 活动轿底请参照上图用系统支架安装好本装置，且尽可能将其安装在靠近轿底中部。
- 将磁铁吸附在轿底，且标志面正对装置感应点。
- 安装调整本装置，使磁铁对准其上端面中心点。同时必须保证本装置端面与磁铁端面相互平行。
- 在电梯额定载时，上下调节本装置使其指示灯刚好转到绿色，此时紧固装置，安装完毕。

产品示意图

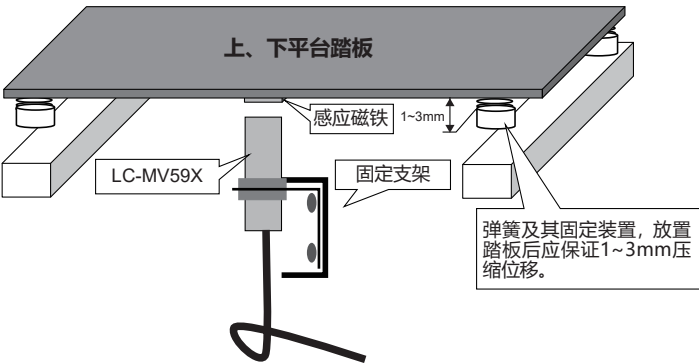


导线	功能	说明
红、黑	系统工作电压	AC/DC24V (±10%)/100mA
黄、棕	超载继电器动合触点	触点容量 DC/AC 48V/500mA
蓝、绿	超载继电器动断触点	

**注意**

- 绝对不可以把本装置的输出连线接入外部电源，这样可能造成永久性损坏。
- 感应磁铁是配合本产品特制的稀土磁铁，磁性强劲，安装时必须小心。在任何时候都要避免接近100℃以上的高温，以免退磁；由此造成的人身和设备损失公司不予负责。

扶梯节能运行方式下的安装示意图



其他

附件

感应磁铁 [20×20×4mm³]	1 片
固定螺帽	2 套

如果系统在调试和使用中出现异常，请直接与我们联系。