

Product Name :
Elevator Training Set Technical Documents

Product Code :
NLAB-ELECTRONICSAB210006



Description :

Elevator Training Set Technical Documents

Technical Specification :

1. Overview

This set can truly simulate elevator working condition. It can complete lift go up and down, open and close door. The set is composed by working portion, control portion and PC interface. The working portion including various industrial gearing and sensor. It well simulate elevator open closed structure. The control portion have three control method (PLC,MCU and PC)to complete control operation.

The set auto un controlled by MCU. Starting control button which on interface panel to control elevator. Additionally, the set can connect with PLC to control elevator. Rotating change-over witch SA1 to change control method (MCU, PLC or PC).

This set install PC monitor which can direct monitoring elevator running on PC. This set is composed by aluminum training platform, car platform sill, signal transfer part and building show parts

2. Parameter

- (a) Working pressure: DC24V
- (b) Temperature: -100C ~ 400C; Humidity: £ 90% (250C).
- (c) Total capacity: £1KVA

3. Description

(a) This set including DC motor, Car platform sill operation section, Digital tube display section, Sensor training section. The system is modular open structure training platform. You can use different brand PLC or add other training modular as required.

(b) The elevator Training set is composed by baseboard, on down car platform sill, stroke limited position institution, call indicate light, car gate, control panel, control motor, sensor and transmission gear. It can collect all signal such as inner choose button signal, outer choose button signal, floor spacing signal ,elvator door spacing signal which complete logic control ,control of lift car up and down also elevator open and close. Additionally, Power off protection of the open and close can avoid motor offside operating.

(c) This system use PC simulation technic by operating and simulating settled some practical problems.

(e) With configuration software an offer application guidance and application samples.

(f) Easy to learn with software, soft teaching materials, material database software and so on.

(g) Easy to teach : project and didactic combined .Multi-media and practical software made experiment teaching and theory teaching easy.

Protection: Avoid offside Operating by power-off protection.

4. Training Contents.

- a. Open and close control experiment
- b. Second floors inside choose up and down, open close control experiment.
- c. Thirds floors inside choose up and down control experiment
- d. Third floors outer call up and down, open and close control experiment.
- e. Third floors elevator comprehensive control experiment

f. PLC control experiment

g. MCU control experiment

h. PC software control experiment

Item

Working Principle

Kit platform

Experiment display

Material

Experiment Acrylic Sheet

Experiment design

Kit parts

Extension Cable

Control mode transition

Switch

Wiring line

Kit Procedure

Instruction Book

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