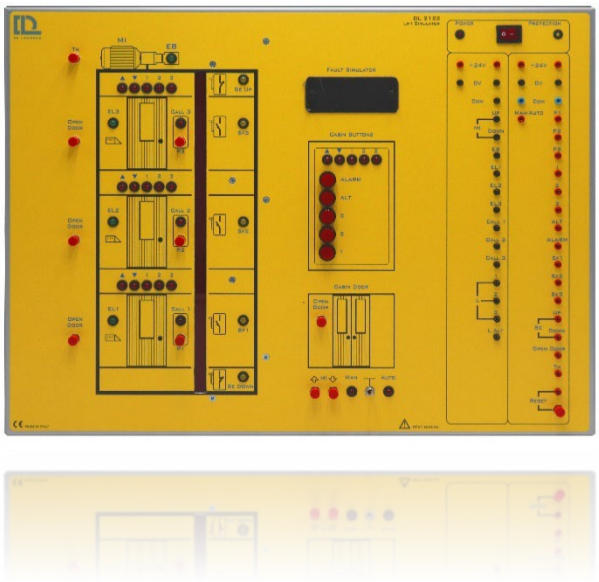
AUTOMATION AND CONTROL

LIFT SIMULATOR

DL 2122



DESCRIPTION

The DL 2122 represents a simulator that reproduces a three-floor lift and that can be managed, through a switch, both manually and by means of a PLC.

The display of the movement of the car is done by means of a LED light bar.

The booking at the floors, highlighted by a flashing signal, can take place at any time regardless of the position of the car and according to priority, and the opening-closing of the doors of the floors and of the car is done using pushbuttons.

The limit switches on each floor and the safety ones, the activation of the electromagnetic brake of the car motor and of the electric lock of the doors on the floors are all highlighted by LEDs.

The panel also shows the faithful reproduction of the push-button panel placed inside the car with the possibility of booking by means of luminous pushbuttons, ALT and ALARM pushbuttons.

The up-down LED light indications of the car and of its position with respect to the floors are shown respectively on the internal push-button panel and on the external doors of each floor.

A fault simulator is provided on the front panel.

Flexibility, reliability and safety are its main advantages.

With this module, students can perform experiments commonly used in the field of industrial automation.

All sections (lift, motor, internal pushbutton panel, power supply, digital I/O terminals, limit switches, electric locks, LEDs and pushbuttons) are identified through clear blocks that show their types and symbols.

TECHNICAL FEATURES

The DL 2122 configuration includes the following components:

- 1 power supply, 24Vdc/1A,
- 5 pushbuttons with light for the pushbutton panel inside the car,
- 3 pushbuttons for booking at the floors,
- 4 pushbuttons for opening the doors (door of the car and doors at the floors),
- 1 pushbutton for the thermal simulation of the motor,
- 2 pushbuttons (Up/Down) for the manual simulation of the up/down of the car,
- 1 RESET pushbutton,
- 1 switch for switching between manual/automatic mode,
- 5 LED inside the car,
- 5 LED for limit switches and safety,
- 3 LED for booking at the floors,
- 3 LED for the electric locks,
- 1 LED for the electromagnetic brake,
- 15 LED for display/direction of the car at the three floors,
- 2 LED for manual/automatic mode,
- 8 microswitches for fault simulation.

The front panel also features the input/output terminals, suitably duplicated on the back, to facilitate connections between the DL 2122 module and the PLC modules in the automation laboratory, in particular the DL 2210A and the DL 2210B.

Complete with didactic manual and software.

Power supply: single-phase from mains.

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