

CAR WASHING SIMULATOR

Mod. PLC-A3/EV

It simulates a tunnel type car washing system. The different electrical/electromechanical devices to be controlled via PLC are fixed in an aluminium frontal silk screen that reproduces the complete car washing machine. The control devices and the pilot lamps showing the relative state of the devices that are distributed in the system lay-out are connected to $\varnothing=4$ mm safety terminals. By so doing, the user is absolutely free to select those devices to be used in his specific PLC program.

TRAINING PROGRAM:

- System analysis
- Definition of the inputs/outputs of the system
- Creating a process diagram
- Indication of the sequential stages of the operation
- Implementation of the logical scheme
- Analysis of the problem
- Implementation of a PLC program

TECHNICAL SPECIFICATIONS:

Electrical Characteristics

In the panel are included the following control, signalling and command devices:

- 1 Pushbutton for START WASHING.
- 1 Pushbutton for STOP/EMERGENCY
- 1 Pilot lamp for MACHINE ON
- 1 Pilot lamp: water valve open
- 1 Pilot lamp: detergent valve open
- 1 Pilot lamp: indicate motor ON of the left brush.
- 1 Pilot lamp: indicate motor ON of the right brush.
- 1 Pilot lamp: indicate motor ON of the top brush.
- 1 bar graph: indicate the movement of the left brush
- 1 bar graph: indicate the movement of the right brush
- 1 bar graph: indicate the movement of the top brush
- 1 bar graph: indicate the movement of the car
- 2 Limit switches: movement of the car in the tunnel
- 6 Limit switches for the movement of the brushes
- 33 Safety terminals $\varnothing=4$ mm for PLC connections.



Mechanical Characteristics

Totally included in a table-top metal container, made with steel profiles and epoxy-painted steel sheet. Aluminium frontal silk screen with the system layout.

Trainer PLC

PLC resources required for controlling the simulator:
16 Digital inputs 24Vdc
15 Digital outputs 24Vdc

Suggested:

PLC training panel mod. PLC-V7/EV

Dimensions: 460 x 440 x 120 mm

Net weight: 5 kg

POWER SUPPLY:

24 VDC – 1 A max. 100VA (from the PLC)

EXPERIMENTAL THEORETICAL TEXTS

Theoretical-experimental handbook for equipment presentation and guide to the exercises.