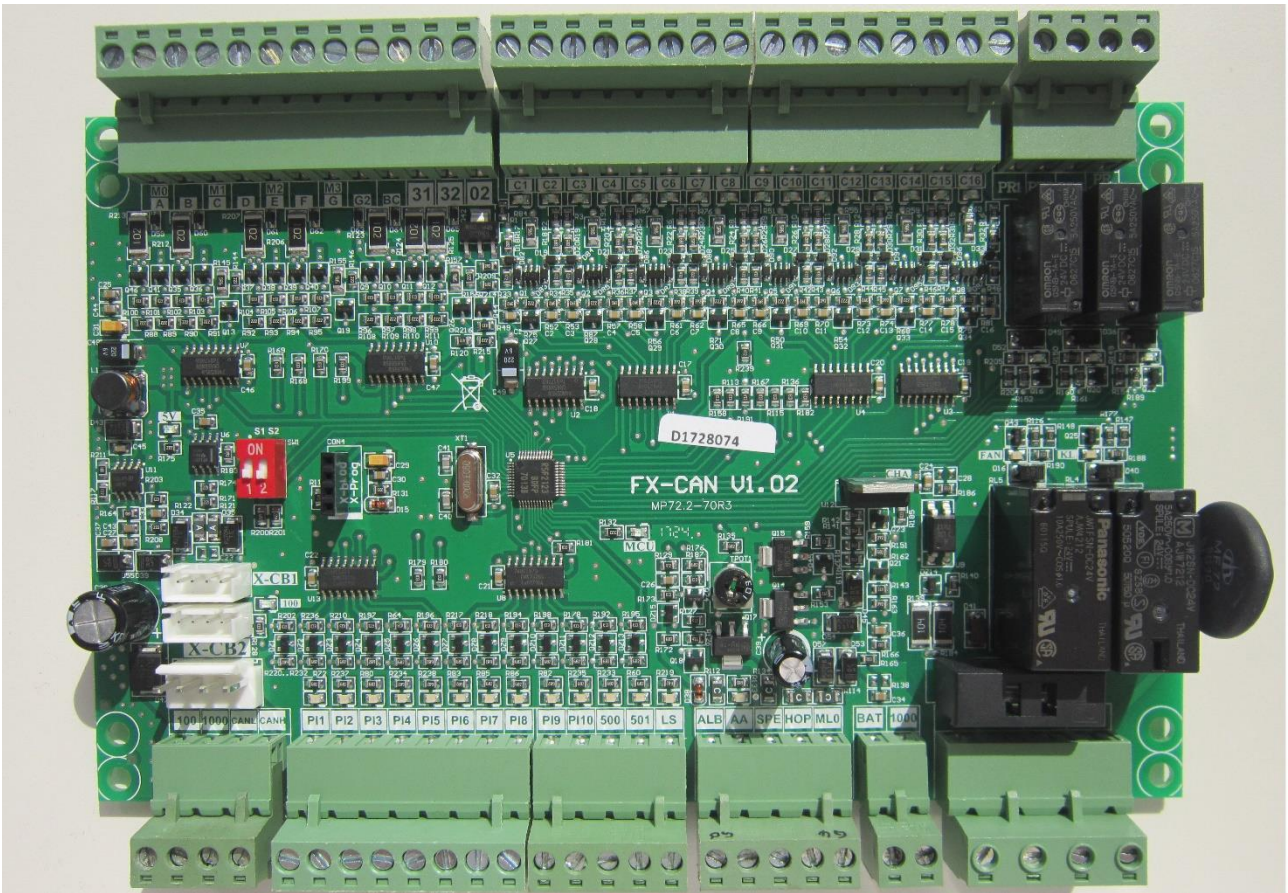# FX-CAN

HARDWARE MANUAL

1   FX-CAN Overview

FX-CAN is a board that provides control of the inputs and outputs (Car calls, overload, car light etc.) in the elevator car by the serial communication with the control card. Serial communication saves many cables between the control card and the cabinet. Inputs/outputs with Arcode / ARL-700 systems can be assigned to the desired features.

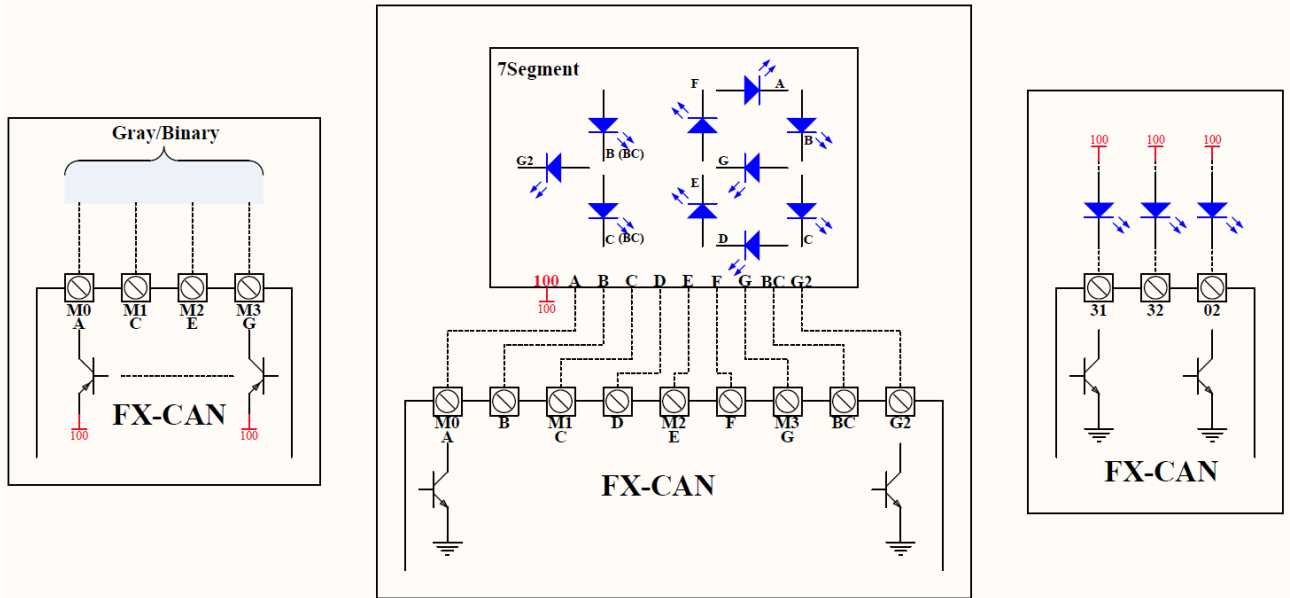| General	
Dimensions Width × Length × Height (mm) (All female terminals are plugged in)	190 x 140 × 34
Operating Temperature	0 - 60 °C
Weight	273gr.

Electrical Characteristic		
Supply voltage	Normally	24VDC(18-30VDC)
	Battery	12V 1.2Ah(Built-in battery charger)
Power consumption	1,1W (Stand-By) 7,1W (Max.) (All calls, Outputs, Battery charging are active.)	
Display outputs	Gray/Binary	Max. current is 22mA at 24V
	7Segment	30 mA output current per one-segment (short circuit protected)
	31,32,02	30 mA output current(short circuit protected)
Inputs	10 Programmable inputs	Input current 6,2mA at 24VDC for one input
	500,501 (Inspection operation buttons)	
	LS(LiftSense)	
Outputs	3 programmable relays	Max switching voltage 250VAC/30VDC Max switching current 3A
	Car light relay output	220VAC(3A fuse protected)
	Car fan relay output	
Calls	16 call button inputs and led outputs	Inputs active with 0Vdc (-), Led outputs short circuit protected
Emergency light output	12V(max. 200mA)	
Alarm button	Active with 0Vdc(1000)	
Gong output	8R/0.5W speaker	
Buzzer output	8R/0.5W speaker	
Magnetic switches supply output	ML0(Max. 200mA)	Continuous output with battery backup in case of power supply failure

- Programmable inputs (804, 805, fan, photocell, etc.); 500,501 inputs; LiftSense input (LS)

- Car fan, car light outputs

- Built-in battery charger

- Alarm button input

- Emergency light output

- Gong output

- Buzzer output

- Magnetic switches supply output

- 7Segment/Gray/Binary indicator outputs

- Up/Down direction arrows and out of service display outputs

- Car call button connection

- Programmable relay outputs (Door open, Door close etc.)
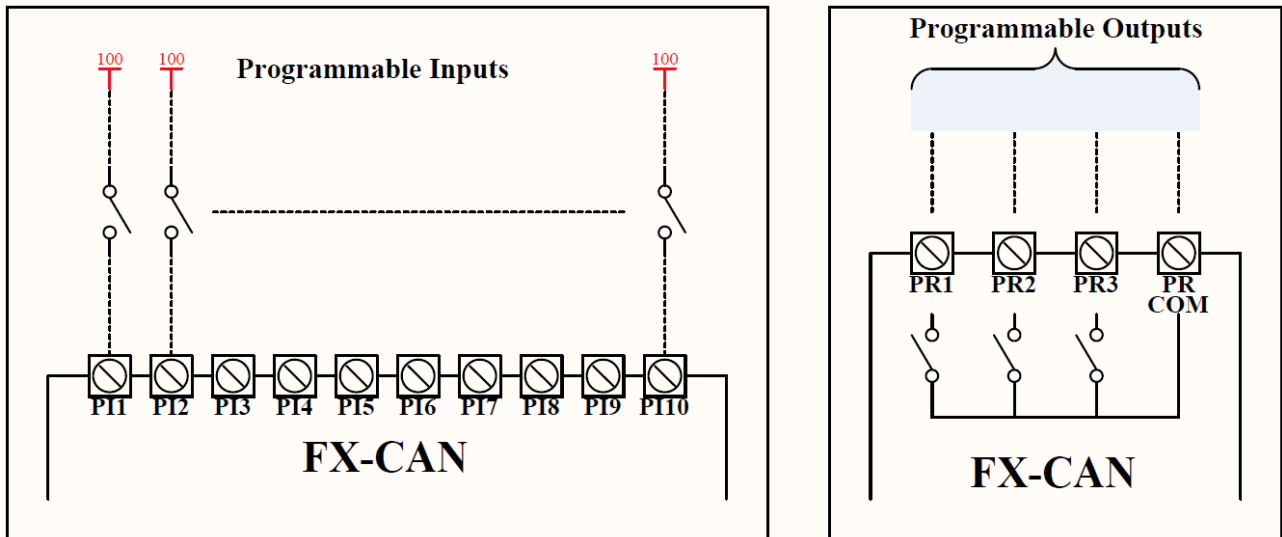
2   FX-CAN Technical Parameters

2.1   Display Outputs

It is possible to get the outputs for 7Segment, gray, binary from the indicator outputs. The connection diagrams of gray, binary, common anode 7Segment indicators and 31-32-02 outputs are shown in the figure below.
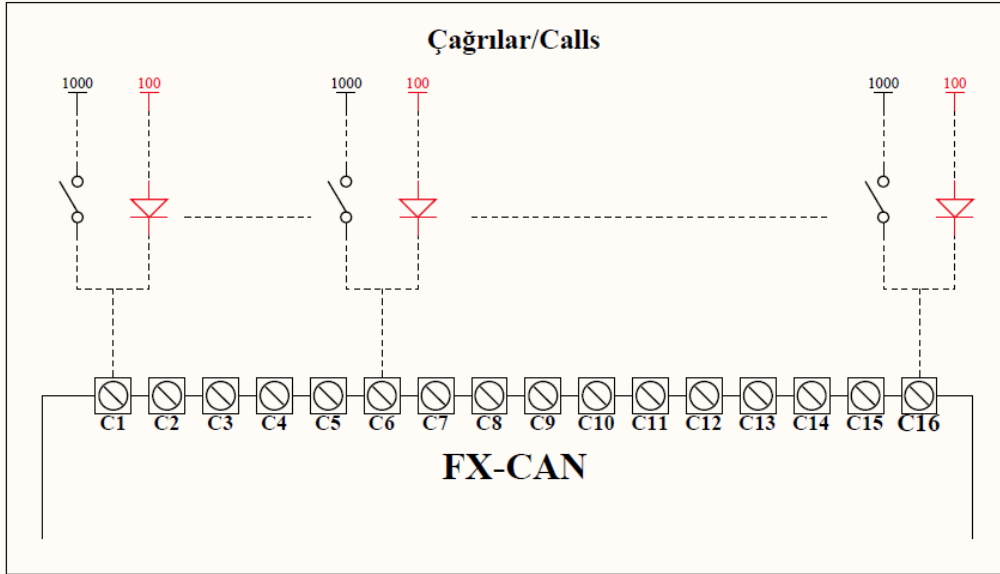

2.2   Programmable Inputs and Programmable Relay Outputs

FX-CAN has 3 programmable relay outputs, 10 programmable inputs.
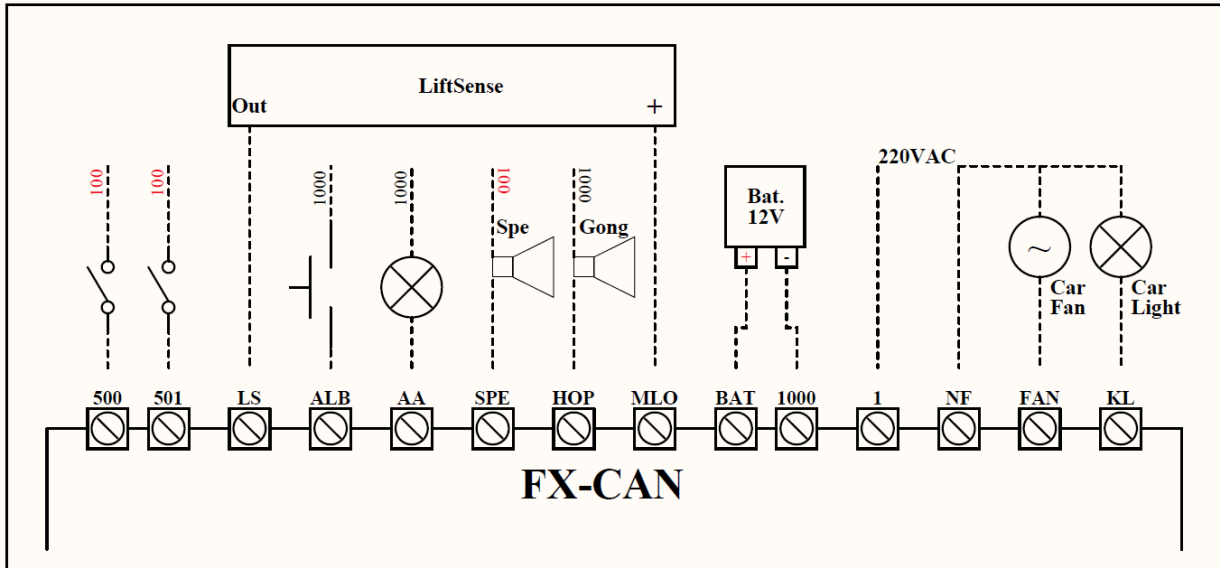
2.3 Calls

FX-CAN has 16 calls button inputs (active low) and led outputs. Led outputs are short-circuit protected.

2.4 Other Connections

Connection diagrams of inspection operation buttons (500,501), LiftSense input (LS), magnetic switches supply output (MLO), alarm button (ALB), gong, call active (SPE) outputs, battery connection (Built-in battery charger), car light and car fan are as follows.

* Volume level on SPE output can be adjusting via trimmer potentiometer.

* The battery connection must be done for alarm button, gong output and emergency light output to work properly.

3   FX-CAN Mechanical Dimensions