



ITALIAN STYLE FOR LIFTS

# DISPLAY LCD520-530: PARALLEL

ENGLISH

Rev. n.4 Hardware: LCD520\_V2 Firmware: V2.2

## DISPLAY CODES

	BLUE TRICOLOR		BLUE MONOCOLOR		BLACK TRICOLOR	
	POSITIVE COM.	NEGATIVE COM.	POSITIVE COM.	NEGATIVE COM.	POSITIVE COM.	NEGATIVE COM.
Clamp connectors	LCD520-A	LCD530-A	LCD521-A	LCD531-A	LCD527-A	LCD537-A
Side connectors	-	LCD539-A	LCD522-A	LCD532-A	LCD523-A	LCD533-A

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**NOTA:** The LCD521-A , LCD522-A, LCD531-A, LCD532-A devices do not show the "alarm active" and "alarm received" icons.

## KIT

CODE	DESCRIPTION
<b>KIT-AUTONOMO-NO</b>	- N.2 magnetic sensors NO - N.2 sensor supports - Guide/ bracket L.25 cm
<b>KIT-AUTONOMO-NC</b>	- N.2 magnetic sensor NC - N.2 sensor supports - Guide/ bracket L.25 cm
<b>MAGNETE-150</b>	- Magnet 15 cm
<b>CB_VG0069</b>	Side connector cable (length 30 cm)



## FIXING KIT CODES

CODE	DESCRIPTION
<b>VG003</b>	Chrome frame kit
<b>VG004</b>	Gold frame kit
<b>VG007</b>	Gunmetal frame kit
<b>VG008</b>	Satin nickel frame kit
<b>KIT FL174 X79-1.2</b>	Kit flush mounting (Thk. 1,2 mm)
<b>KIT FL174 X79-2</b>	Kit fissaggio a filo (Thk. 2 mm)

**DISPLAY LCD520-530: PARALLEL**

**[1] TECHNICAL DATA**

<b>Power Supply</b>	LCD52X → 12÷24 Vac/Vdc ±10%	
	LCD53X → 12÷24 Vdc ±10% /24Vac±10%	
<b>Current absorption</b>	LCD62X: 12 Vdc → Max 66 mA	LCD53X: 12 Vdc → Max 66 mA
<b>Input Activation</b>	LCD52X → Positive common → Active with GND	
	LCD53X → Negative common → Active with +Vin	
<b>Input Activation Voltage</b>	LCD52X: < 1 V	
	LCD53X: > 5 V	
<b>Operating temperature range</b>	Form -15°C to +50°C	
<b>Coding</b>	§ 5. <b>WORKING MODE</b>	
<b>Life</b>	100% brightness → 25 000 Hours	
<b>Light Intensity</b>	350 cd/ m <sup>2</sup>	

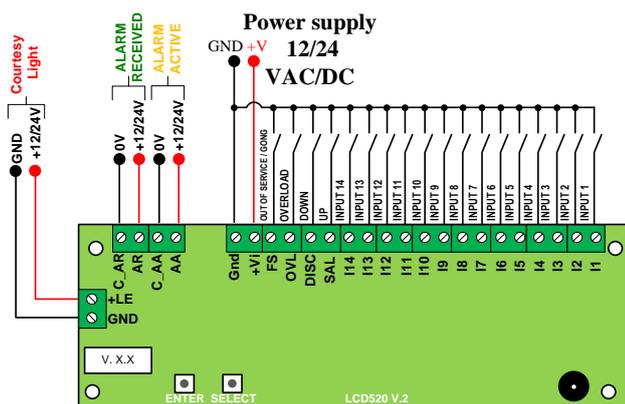
**[2] PIN OUT**

I1-I2-I3-I4-I5-I6-I7-I8-I9-I10-I11-I12-I13-I14	Input 1-2-3-4-5-6-7-8-9-10-11-12-13-14
SAL	Up arrow
DISC	Down arrow
OVL	Overload
FS	Out of service
+VI	Power supply
GND	
AA (+); C AA (-)	Alarm active
AR (+); C AR (-)	Alarm received
+LE; GND	Courtesy light

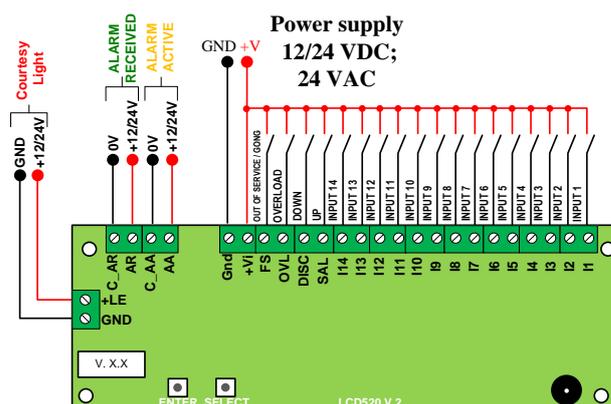
**NOTE:** the FS input can have different functions depending on the values set in M6

**[3] CONNECTION SCHEME**

**3.1** 1 POLE PER FLOOR - BINARY-INVERTED BIN.-GRAY-BCD  
Positive common: LCD520-A, LCD521-A, LCD522-A, LCD523-A, LCD527-A



**3.2** 1 POLE PER FLOOR - BINARY-INVERTED BIN.-GRAY-BCD  
Negative common: LCD530-A, LCD531-A, LCD532-A, LCD533-A, LCD537-A, LCD539-A



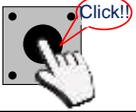


**DISPLAY LCD520-530: PARALLEL**

[4]

**IMPOSTAZIONI DEL MENU'**

ENTER/SW2

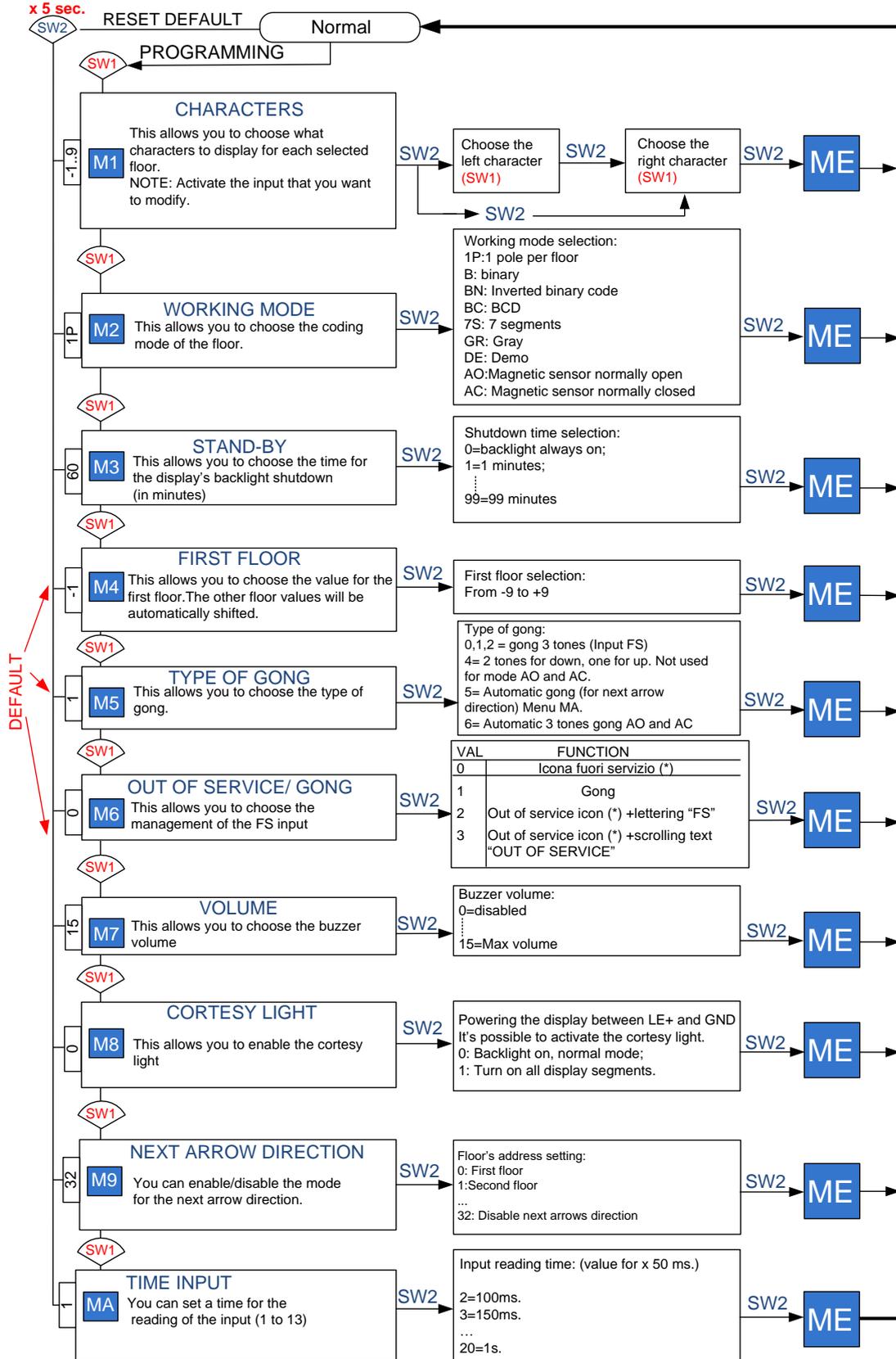


→ Save/OK button

SELECT/SW1



→ Access the menu/Scroll values



(\*): Icon available only for LCD521-A, LCD522-A, LCD531-A, LCD532-A models.

**DISPLAY LCD520-530: PARALLEL**

[5] **OPERATING MODE LIST**

Display	Mode	Description	Nmax floors [default range]
1P	1 Pole per floor	Each input is associated with one floor. [§ 5.1]	14 [-1, 12]
B	Binary	The first five inputs [I1,..., I5] are used for coding the floor number in binary. [§ 5.2]	32 [-1, 30]
Bn	Inverse binary	The first five inputs [I1,..., I5] are used for coding the floor number in inverse binary [§ 5.2]	32 [-1, 30]
BC	BCD	The first four inputs [I1,...,I4] are used for coding the floor number in inverse binary , I5 is used for the tens and I6 for the sign (-).[§ 5.4]	29 [-9, 19]
GR	Gray 5	The first five inputs [I1,..., I5] are used for coding the floor number in Gray. [§ 5.3]	32 [-1, 30]
7S	7Segments	Each input is associated with one digit segment, I12 is used for the tens and I11 for the sign (-). [§ 5.5]	109 [-9, 99]
NO	Stand-Alone AO	Magnetic sensors Normally Open.	64 [-9, 53]
NC	Stand-Alone AC	Magnetic sensors Normally Closed.	64 [-9, 53]
DE	Demo	Simulation mode: you can view floors, arrows and alarm icons.	

[5.1] 1 POLE PER FLOOR

I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
-1	0	1	2	3	4	5	6	7	8	9	10	11	12

[5.2] BINARY / INVERSE BINARY

Binary	Inverse Binary	I1 (A)	I2 (B)	I3 (C)	I4 (D)	I5 (E)
0	31	OFF	OFF	OFF	OFF	OFF
1	30	ON	OFF	OFF	OFF	OFF
2	29	OFF	ON	OFF	OFF	OFF
3	28	ON	ON	OFF	OFF	OFF
4	27	OFF	OFF	ON	OFF	OFF
5	26	ON	OFF	ON	OFF	OFF
6	25	OFF	ON	ON	OFF	OFF
7	24	ON	ON	ON	OFF	OFF
8	23	OFF	OFF	OFF	ON	OFF
9	22	ON	OFF	OFF	ON	OFF
10	21	OFF	ON	OFF	ON	OFF
11	20	ON	ON	OFF	ON	OFF
12	19	OFF	OFF	ON	ON	OFF
13	18	ON	OFF	ON	ON	OFF
14	17	OFF	ON	ON	ON	OFF
15	16	ON	ON	ON	ON	OFF
16	15	OFF	OFF	OFF	OFF	ON
17	14	ON	OFF	OFF	OFF	ON
18	13	OFF	ON	OFF	OFF	ON
19	12	ON	ON	OFF	OFF	ON
20	11	OFF	OFF	ON	OFF	ON
21	10	ON	OFF	ON	OFF	ON
22	9	OFF	ON	ON	OFF	ON
23	8	ON	ON	ON	OFF	ON
24	7	OFF	OFF	OFF	ON	ON
25	6	ON	OFF	OFF	ON	ON
26	5	OFF	ON	OFF	ON	ON
27	4	ON	ON	OFF	ON	ON
28	3	OFF	OFF	ON	ON	ON
29	2	ON	OFF	ON	ON	ON
30	1	OFF	ON	ON	ON	ON
31	0	ON	ON	ON	ON	ON

[5.3] GRAY

Floor number	I1 (A)	I2 (B)	I3 (C)	I4 (D)	I5 (E)
0	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF
2	ON	ON	OFF	OFF	OFF
3	OFF	ON	OFF	OFF	OFF
4	OFF	ON	ON	OFF	OFF
5	ON	ON	ON	OFF	OFF
6	ON	OFF	ON	OFF	OFF
7	OFF	OFF	ON	OFF	OFF
8	OFF	OFF	ON	ON	OFF
9	ON	OFF	ON	ON	OFF
10	ON	ON	ON	ON	OFF
11	OFF	ON	ON	ON	OFF
12	OFF	ON	OFF	ON	OFF
13	ON	ON	OFF	ON	OFF
14	ON	OFF	OFF	ON	OFF
15	OFF	OFF	OFF	ON	OFF
16	OFF	OFF	OFF	ON	ON
17	ON	OFF	OFF	ON	ON
18	ON	ON	OFF	ON	ON
19	OFF	ON	OFF	ON	ON
20	OFF	ON	ON	ON	ON
21	ON	ON	ON	ON	ON
22	ON	OFF	ON	ON	ON
23	OFF	OFF	ON	ON	ON
24	OFF	OFF	ON	OFF	ON
25	ON	OFF	ON	OFF	ON
26	ON	ON	ON	OFF	ON
27	OFF	ON	ON	OFF	ON
28	OFF	ON	OFF	OFF	ON
29	ON	ON	OFF	OFF	ON
30	ON	OFF	OFF	OFF	ON
31	OFF	OFF	OFF	OFF	ON

**NOTE:** The tables above refer to codes with the first floor set to "0" (MENU M4=0).

**DISPLAY LCD520-530: PARALLEL**

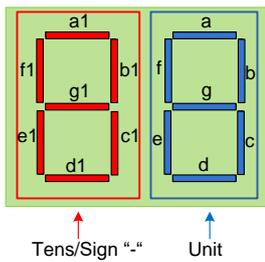
**[5.4] BCD**

Floor number	I1 (A)	I2 (B)	I3 (C)	I4(D)	I5 (E) = DECINE	Floor number	I1 (A)	I2 (B)	I3 (C)	I4(D)	I5 (E) = DECINE
0	ON	ON	ON	ON	OFF	10	ON	ON	ON	ON	ON
1	OFF	ON	ON	ON	OFF	11	OFF	ON	ON	ON	ON
2	ON	OFF	ON	ON	OFF	12	ON	OFF	ON	ON	ON
3	OFF	OFF	ON	ON	OFF	13	OFF	OFF	ON	ON	ON
4	ON	ON	OFF	ON	OFF	14	ON	ON	OFF	ON	ON
5	OFF	ON	OFF	ON	OFF	15	OFF	ON	OFF	ON	ON
6	ON	OFF	OFF	ON	OFF	16	ON	OFF	OFF	ON	ON
7	OFF	OFF	OFF	ON	OFF	17	OFF	OFF	OFF	ON	ON
8	ON	ON	ON	OFF	OFF	18	ON	ON	ON	OFF	ON
9	OFF	ON	ON	OFF	OFF	19	OFF	ON	ON	OFF	ON

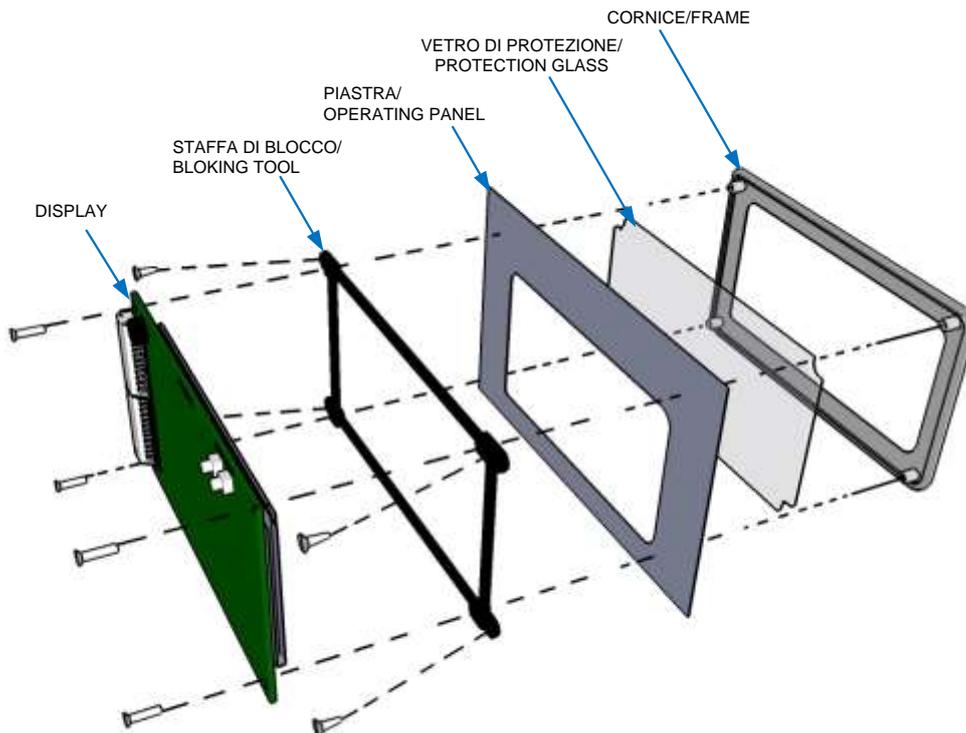
**NOTE:** The input I6 is used for the sign "-". If I5 and I6 are both [ON], I6 has priority.

**[5.5] 7 SEGMENTS**

INPUT	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
SEGMENT	a1	b1	c1	d1	e1	f1	g1	a	b	c	d	e	f	g
DIGIT	Tens/Sign "-"							Unit						

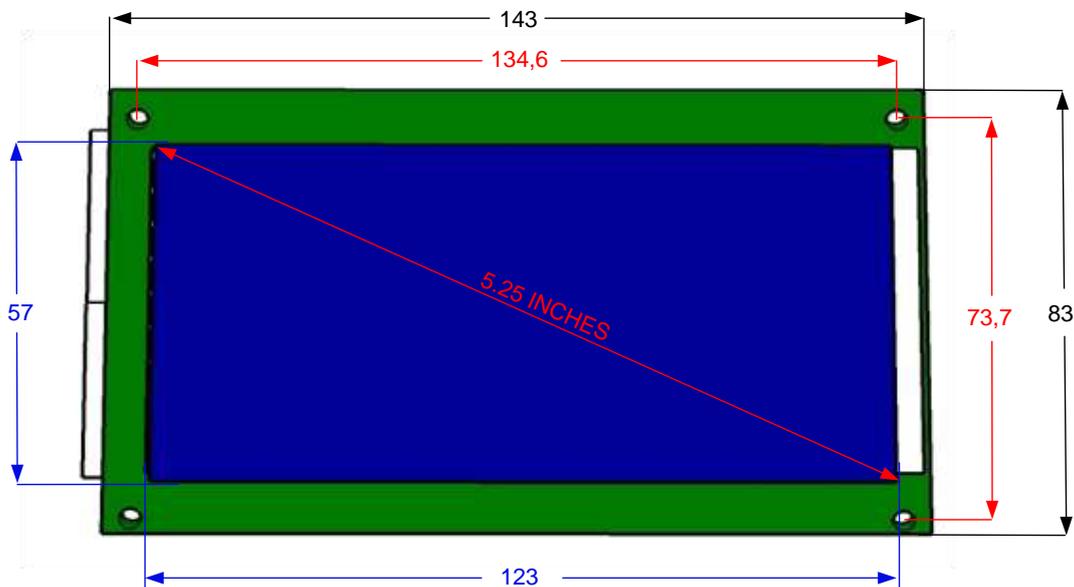


**[6] INSTALLATION INSTRUCTIONS**



**DISPLAY LCD520-530: PARALLEL**

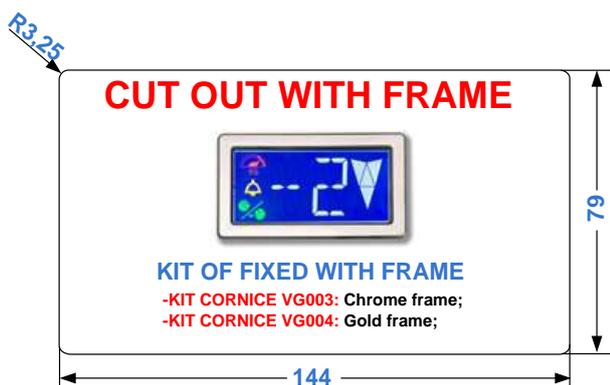
**[7] DIMENSIONS**



**[7] DIMENSIONS SLIDE**

BLUE TRICOLOR	BLUE MONOCOLOR	BLACK TRICOLOR
<p><b>CODICI:</b> LCD520-A LCD530-A LCD539-A</p>	<p><b>CODICI:</b> LCD521-A LCD522-A LCD531-A LCD532-A</p>	<p><b>CODICI:</b> LCD523-A LCD527-A LCD533-A LCD537-A</p>

**[8] CUTOUTS**



**DISPLAY LCD520-530: PARALLEL**

[9]

**RISOLUZIONE DEI PROBLEMI**

<b>PROBLEM</b>	<b>Solution</b>	
	<b>Series LCD52X</b>	<b>Serie LCD53X</b>
The display doesn't turn on.	Check the power supply between: Vin e GND. → 12÷24 Vac/Vdc	Check the power supply between: Vin e GND → 12÷24Vdc/ 24Vac
The display flashes or doesn't properly turn on.	You make sure that the display is correctly powered. [§ 3.1]	
	If powered in AC make sure you have inserted the diode before Vin, as shown in the circuit diagram.	If powered in AC, remember to power it between Vin and Vin.
You don't see a floor /an arrow /an alarm.	Check the voltage between the input and Vin.	Check the voltage between the input and GND.
	Restore the default values pressing and holding the button SW2 for 5 seconds.	
In the Binary ,Bn, BC and Gray modes, when you switch from one floor you see another floor.	Increase the inputs reading time: MENU MA= 04 → 200ms.	
The display does not light but you correctly see the floor and the arrows.	Increase the backlight shutdown time.	
	Backlight damaged, contact the service centre.	
The cabin display (series LCD52X-53X) works correctly while the floor display (series LCD62X-63X) doesn't.	Make sure that the displays are both of the same series, negative or positive common. It is not possible to connect displays with different common, for example LCD620 with LCD630. They must be of the same series: LCD620, LCD621. LCDX2X → Positive common , inputs are activated with a GND; LCDX3X → Negative common, inputs are activated with a positive voltage (+Vin).	



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