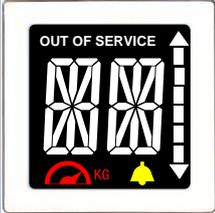
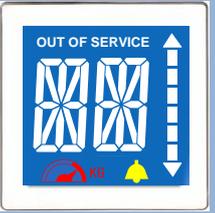


DISPLAY ICARO LCD620-630: PARALLEL

English

Rev. n.6 Data: 22/03/16 Hardware: Rev.1 Firmware: v1.8

DISPLAY CODES

ALPHANUMERIC DISPLAY				DIGITAL DISPLAY			
Black slide		Blue slide		Blue slide		Black slide	
							
POSITIVE COMMON	NEGATIVE COMMON	POSITIVE COMMON	NEGATIVE COMMON	POSITIVE COMMON	NEGATIVE COMMON	POSITIVE COMMON	NEGATIVE COMMON
LCD629-A	LCD639-A	LCD620-A	LCD630-A	LCD621-A	LCD631-A	LCD627-A	LCD637-A
		LCD623-A *	LCD633-A *	LCD622-A *	LCD632-A *		

*Note: white icons

STAND-ALONE KIT

CODE	DESCRIPTION
KIT-AUTONOMO-NO	-N.2 magnetic sensor normally open (NO) - N.2 sensor supports -Guide/bracket L.25 cm
KIT-AUTONOMO-NC	-N.2 magnetic sensor normally closed (NC) - N.2 sensor supports -Guide/bracket L.25 cm
MAGNETE-150	- N.1 magnet 15 cm



FIXING KIT CODES

CODE	DESCRIPTION
VG005	Gold frame kit
VG009	Lowered chrome frame kit
KIT.V.ICARO.1,2	Fitting snap kit (Thk. 1,2 mm)
KIT.V.ICARO.2	Fitting snap kit (Thk. 2 mm)

DISPLAY ICARO LCD620-630: PARALLEL

[1] TECHNICAL DATA

Power Supply	LCD62X → 12÷24 Vdc ±10%	
	LCD63X → 12÷24 Vac/dc ±10%	
Current absorption	LCD62X: 12 Vdc → Max 60 mA	LCD63X: 12 Vdc → Max 60 mA 24 Vac → Max 130 mA
Input Activation	LCD62X → Positive common → Active with GND LCD63X → Negative common → Active with +Vin	
Input Activation Voltage	LCD62X: < 1 V LCD63X: > 5 V	
Operating temperature range	da -15°C a +50°C	
Coding	§ 5. OPERATING MODE LIST	
Life	100% brightness → 25 000 Hours	
Light Intensity	300 cd/ m ²	

[2] PIN OUT

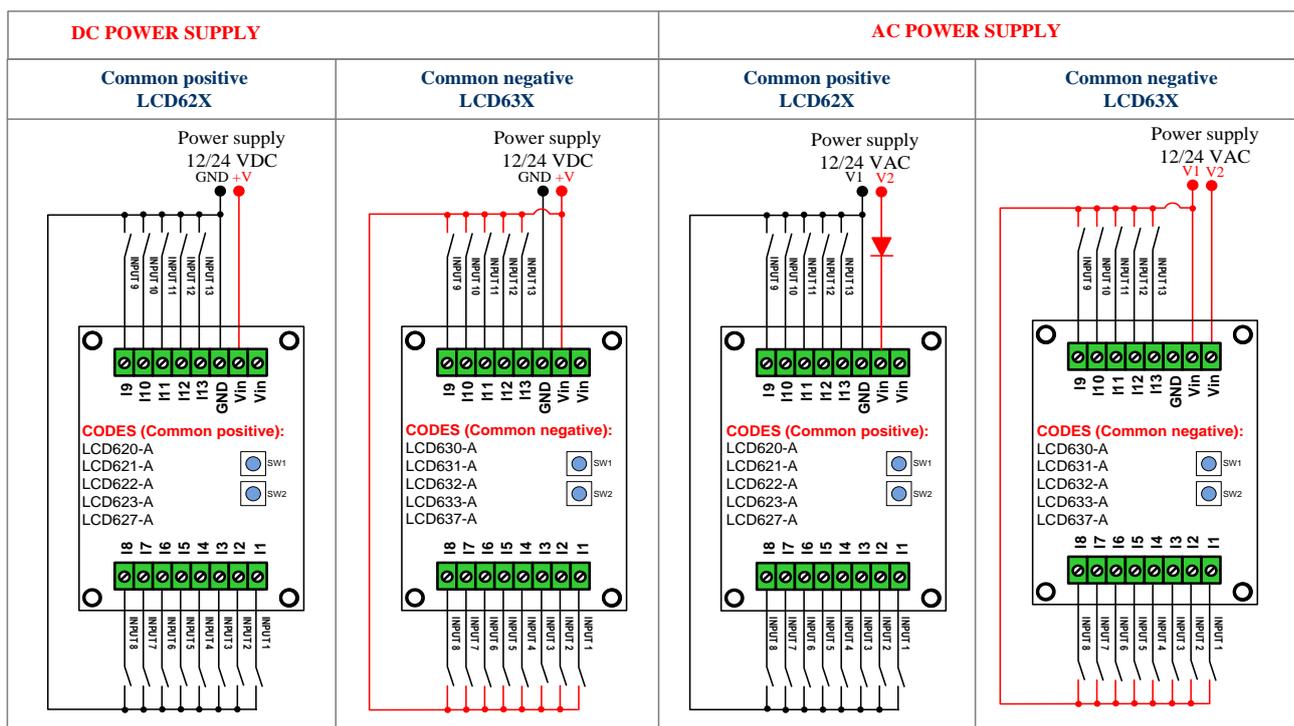
I1-I2-I3-I4-I5-I6-I7-I8-I11-I12-I13	Inputs 1-2-3-4-5-6-7-8-11-12-13
I9	UP arrow
I10	DOWN arrow
Vin/Vin	Power supply
GND	



NOTE: I8, I11, I12, I13 can have different functions depending on the values set in the M6 and M8.

[3] CONNECTION SCHEME

13.11 1 POLE PER FLOOR/BINARY/INVERSE BINARY/GRAY/BCD/ 7 SEGMENTS



DISPLAY ICARO LCD620-630: PARALLEL

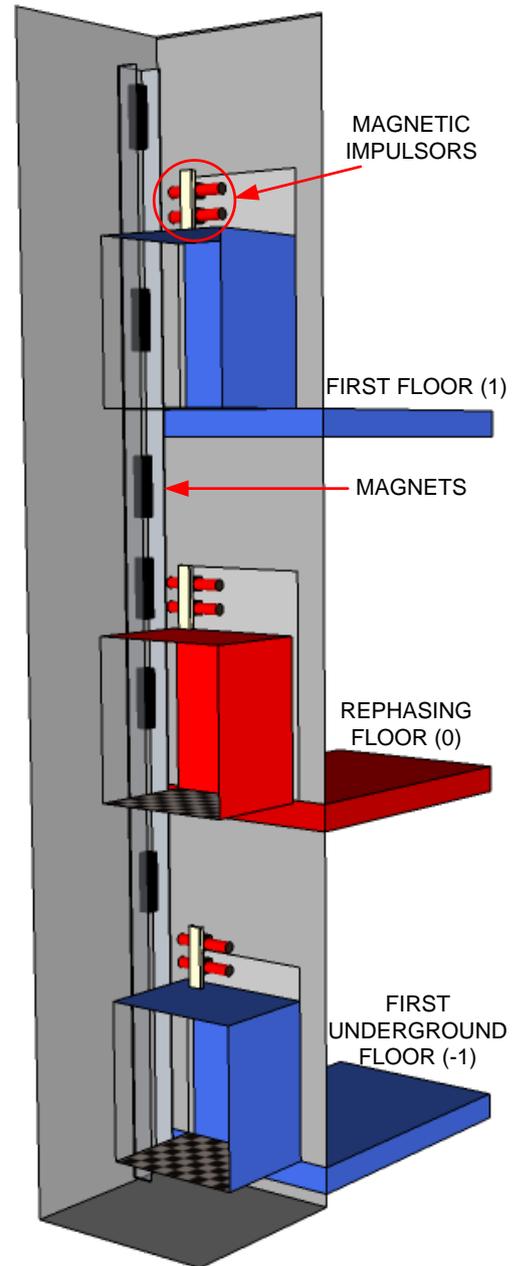
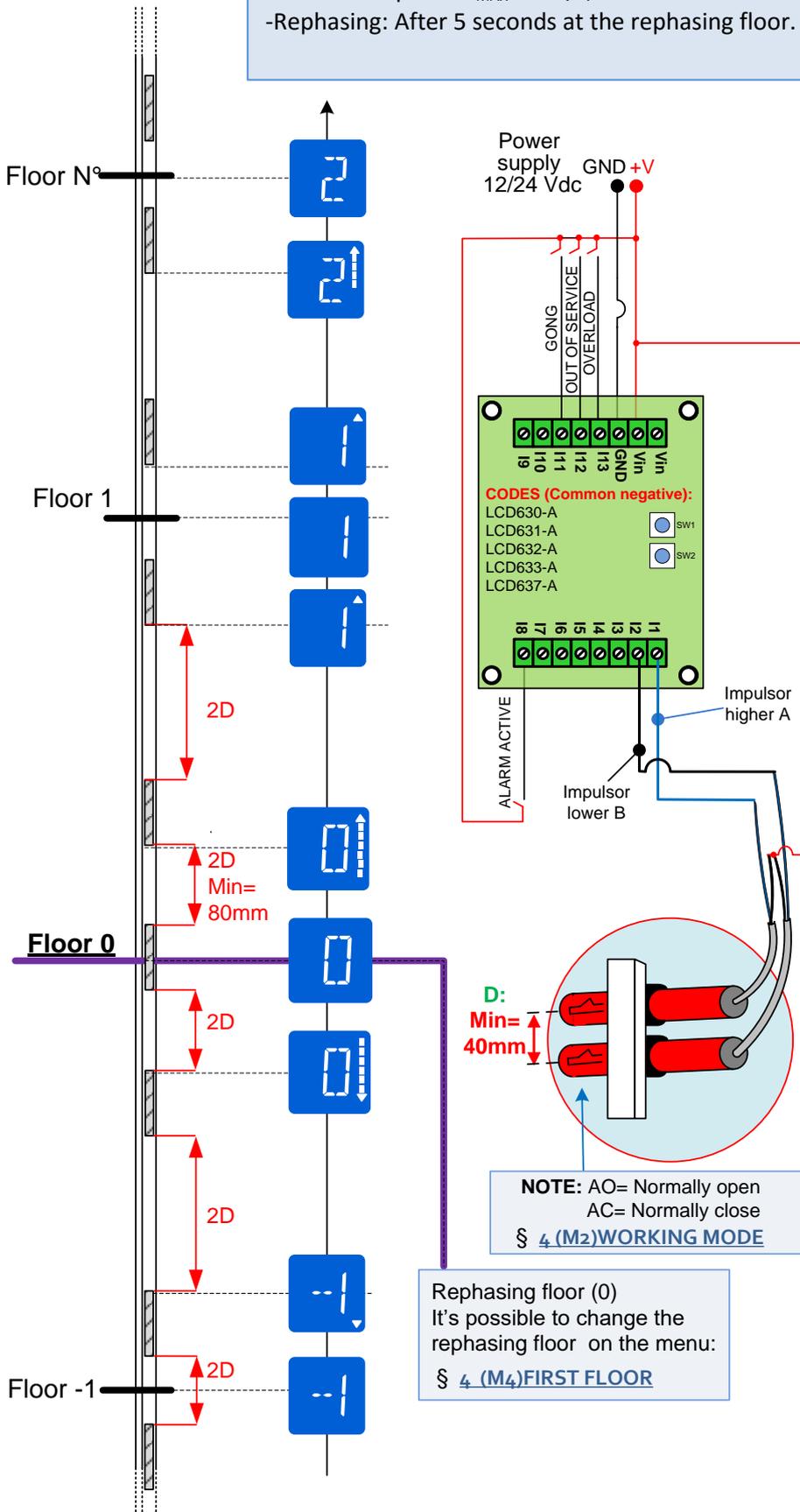
13.21 STAND-ALONE AO/AC

3.2.1 SPECIFICATIONS:

- Minimum distance of floor: 40cm ;
- Magnetic sensor minimum distance : D (min=40mm);
- Magnet minimum length: $2D$ (min 80mm);
- Minimum speed: $V_{min} = 0.4$ m/s;
- Maximum speed: $V_{MAX} = 2$ m/s;
- Rephasing: After 5 seconds at the rephasing floor.

NOTA 1: In STAND-ALONE AO/AC mode, the display must be powered in DC mode!

NOTA 2: The scheme refers to the LCD common negative (codes LCD63X).



DISPLAY ICARO LCD620-630: PARALLEL

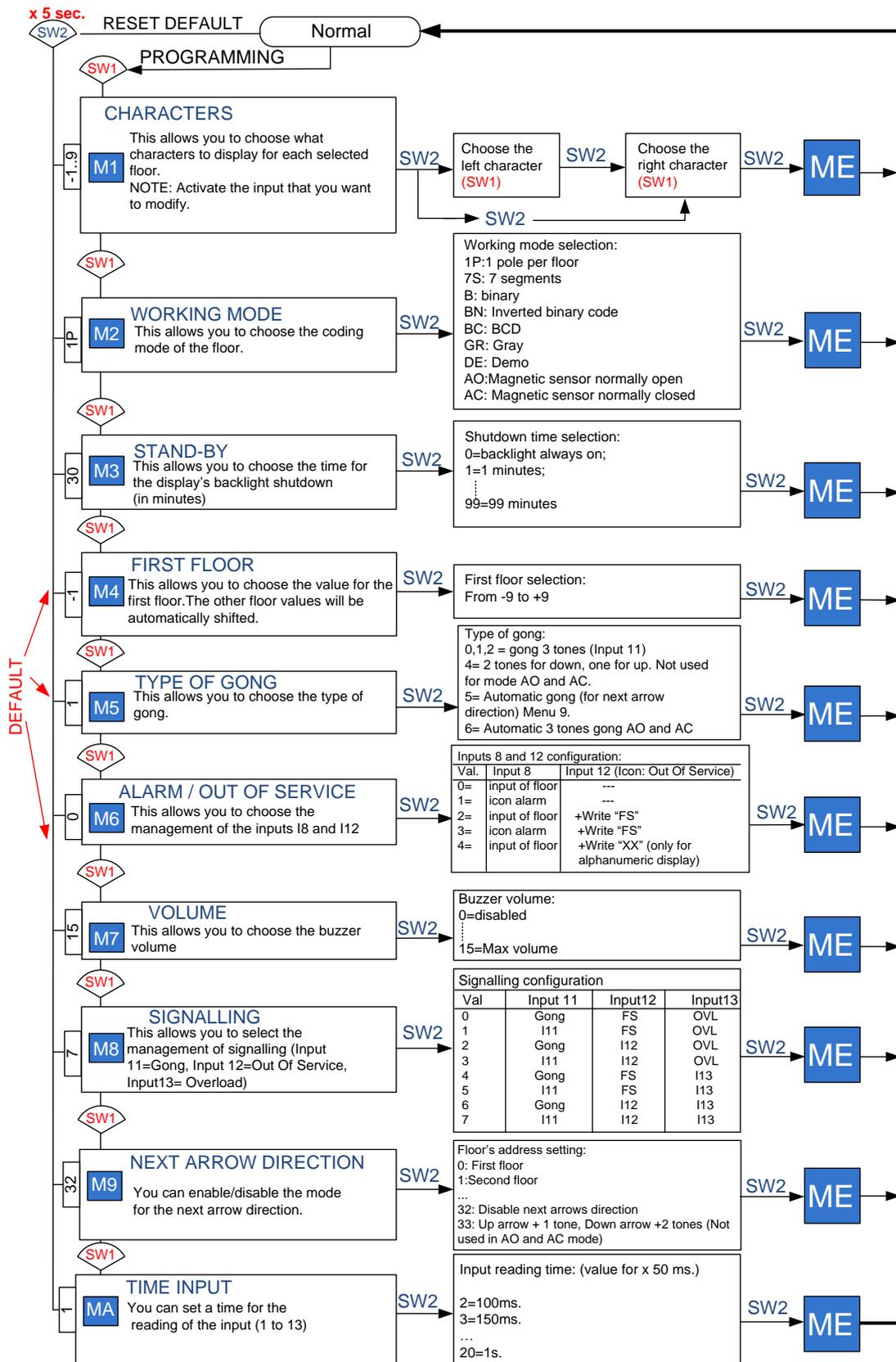
[4] PROGRAMMING



ENTER/SW2 → Save/OK button



SELECT/SW1 → Access the menu/Scroll values



DISPLAY ICARO LCD620-630: 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]	11 [-1, 9]
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, I2 is used for the tens and I11 for the sign (-). [§ 5.5]	29 [-9, 19]
AO	Stand-Alone NO	Magnetic sensors Normally Open. [§ 3.2]	64 [-9, 53]
AC	Stand-Alone NC	Magnetic sensors Normally Closed. [§ 3.2]	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
-1	0	1	2	3	4	5	6	↑	↓	7	8	9

[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 ICARO LCD620-630: PARALLEL

[5.4] BCD

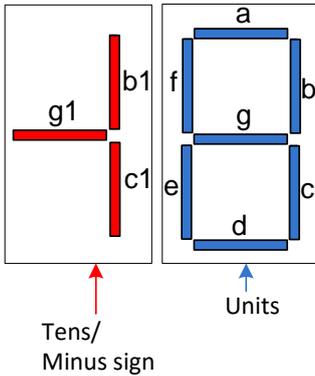
Floornumber	I1 (A)	I2 (B)	I3 (C)	I4(D)	I5 (E) = TENS	Floor number	I1 (A)	I2 (B)	I3 (C)	I4(D)	I5 (E) = TENS
0	ON	ON	ON	ON	OFF	10	ON	ON	ON	ON	ON
1	OFF	ON	ON	ON	OFF	11	OFF	ON	ON	ON	ON
2	ON	OFF	ON	ON	OFF	12	ON	OFF	ON	ON	ON
3	OFF	OFF	ON	ON	OFF	13	OFF	OFF	ON	ON	ON
4	ON	ON	OFF	ON	OFF	14	ON	ON	OFF	ON	ON
5	OFF	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.

SIGNAL PINOUT: (Binary/ Inverse binary/ Gray/ BDC)

I8	I9	I10	I11	I12	I13
Alarm	↑	↓	Gong	Out of service	Overload

[5.5] 7 SEGMENTS

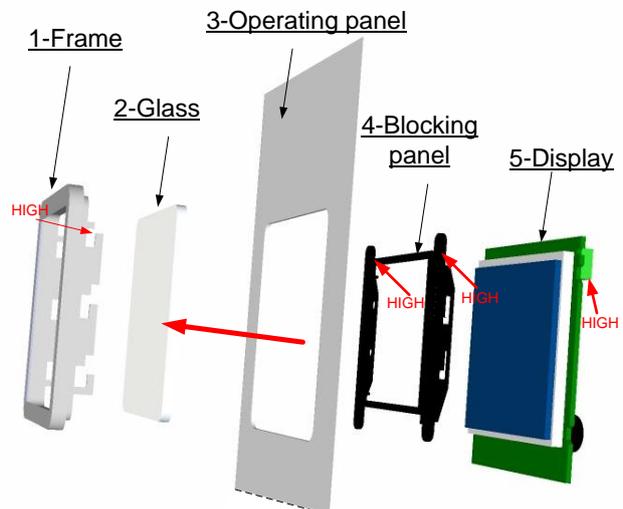


Floor number	INPUTS						
	I1(a)	I2(b)	I3(c)	I4(d)	I5(e)	I6(f)	I7(g)
0	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1	ON	ON	ON	OFF	OFF	OFF	OFF
2	ON	ON	OFF	ON	ON	OFF	ON
3	ON	ON	ON	ON	OFF	OFF	ON
4	OFF	ON	ON	OFF	OFF	ON	ON
5	ON	OFF	ON	ON	OFF	ON	ON
6	ON	OFF	ON	ON	ON	ON	ON
7	ON	ON	ON	OFF	OFF	OFF	OFF
8	ON	ON	ON	ON	ON	ON	ON
9	ON	ON	ON	ON	OFF	ON	ON
Symbol	INPUTS						
	I11 (g1)			I12 (b1+c1)			
"-"	OFF			OFF			OFF
1	ON			OFF			OFF
1	OFF			ON			ON

[6] INSTALLATION INTRUCTIONS

[6.1] FRAME KIT

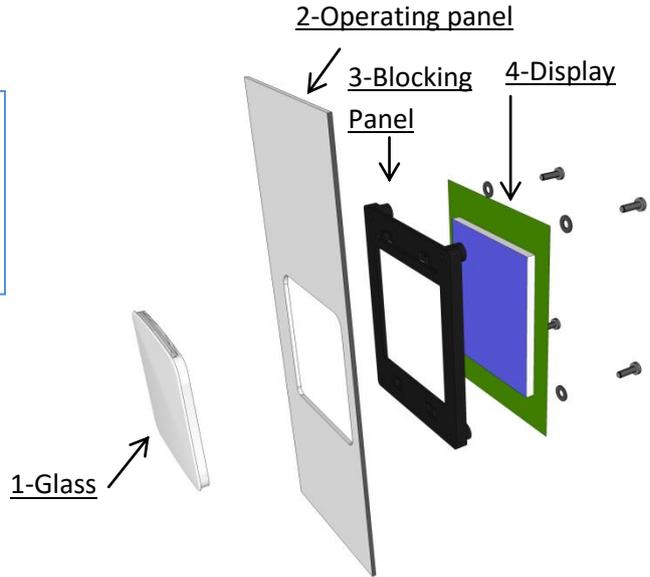
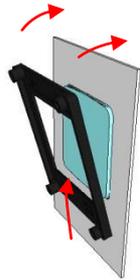
- A-** Place the protection glass (2) within the Frame (1);
- B-** Hook the blocking panel (4) on to the display (5);
- C-** Insert the frame (1-2) into the cut out(3);
- D-** Insert the display (4-5) into the frame slots and push it down to fasten them together;
- E-** Insert the 4 screws into the slots of the blocking panel (4).



DISPLAY ICARO LCD620-630: PARALLEL

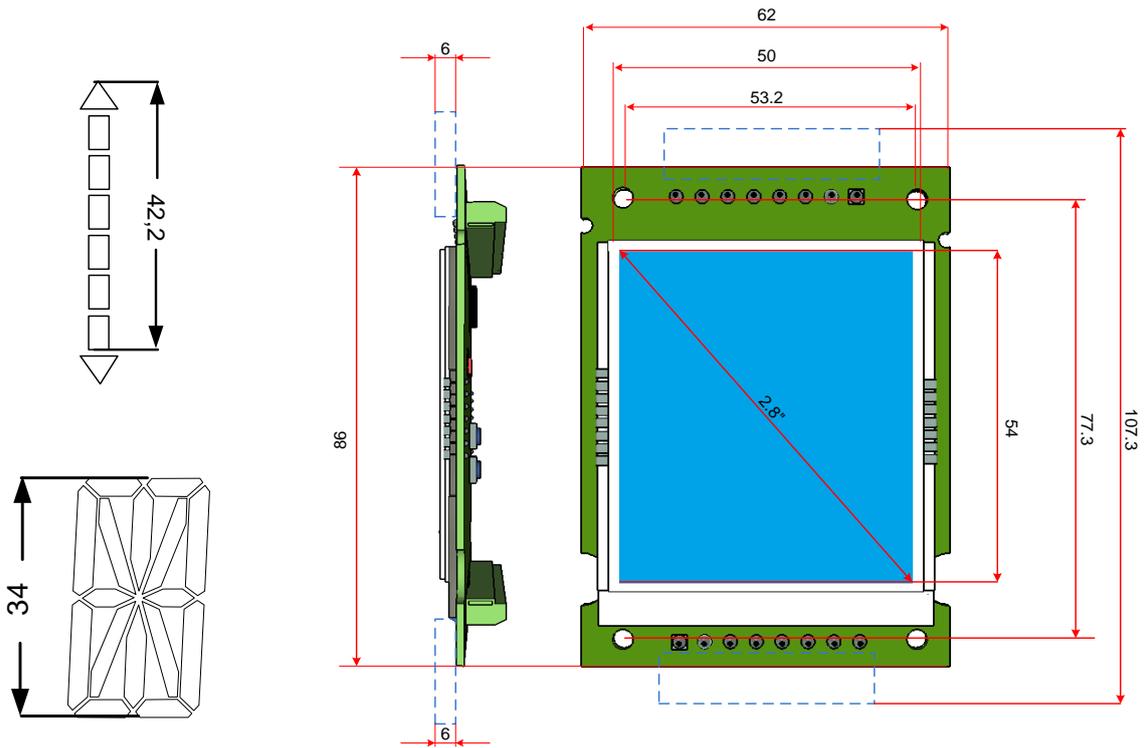
[6.2] Fitting snap kit [Flush mount kit]

- A-** Insert the Glass [1] in to the Operating panel [2];
- B-** Fit the frame [3] (from behind the plate) to the glass [1];
- C-** Fix the Blocking Panel (3) to the Display (4) with the screws and washers provided in the kit.



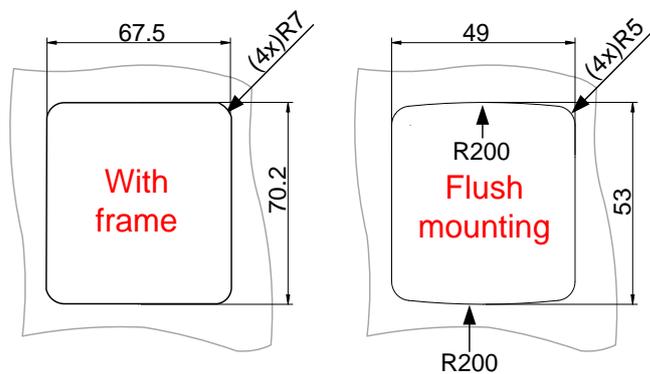
[7]

DIMENSIONS



[8]

CUT-OUTS



DISPLAY ICARO LCD620-630: PARALLEL

[9] PROBLEM SOLVING

PROBLEM	Solution	
	Series LCD62X	Series LCD63X
The display doesn't turn on.	Check the power supply between: Vin e GND. → 12÷24 Vdc	Check the power supply between: 12÷24 Vdc → Vin e GND 12÷24 Vac → Vin e Vin
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, check the power supply connection between Vin and Vin.
It does not show 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, switching floor the display shows a wrong number.	Increase the inputs reading time: MENU MA= 04 → 200ms.	
The display does not light but you can see the floor number.	Check the backlight shutdown time (M3) and eventually increase it.	
	Backlight damaged, contact the service centre.	
The car 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 (example LCD620 + LCD621 + LCD521 → OK; LCD620 + LCD630 → NO). LCDX2X → Positive common , inputs are activated if connected to GND; LCDX3X → Negative common, inputs are activated if connected to the positive voltage (+Vin).	



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