Vision line boards

Rev.00

COP
LOP-VISION-DMX-PAR-W→Positive and negative common
DOT MATRIX LOP display 

ORDERING INFO

CODE	DESCRIPTION
LOP-VISION-DMX-PAR-W	Dot Matrix LOP display with white digits
CU24.JST20D.24F-FIL.24M.0060-USL2-V00	Cable for display connection, length 60cm

SUMMARY

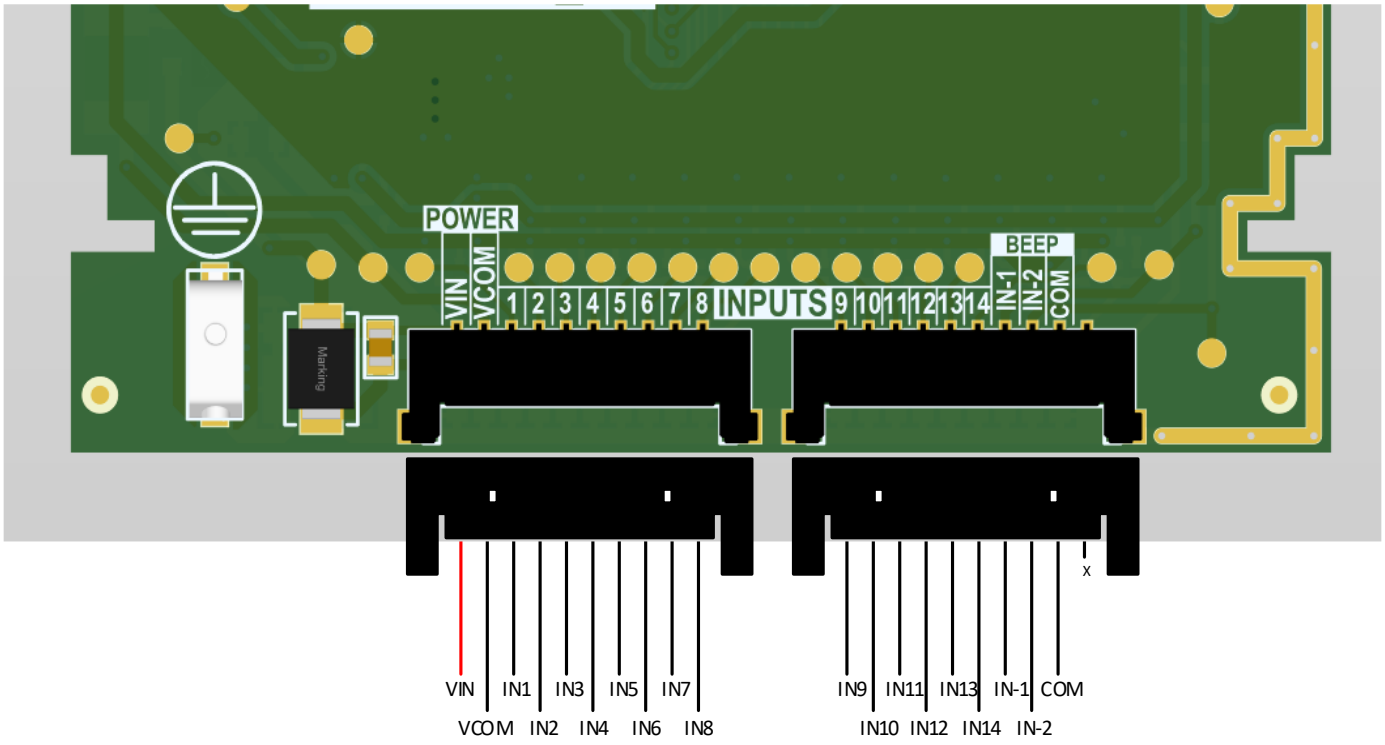
1 LOP-VISION-DMX-PAR-W

Power Supply	12-24Vdc±10%
Maximum current consumption	120 mA @ 12Vdc 60 mA @ 24Vdc
Operating temperature	-15°C / +50°C
Connectors type	2xPicoLock 10p
Cable code	CU10.PLK15.10F-FIL.10M.0050-USL-V00

2 WORKING MODE

Displayed	Working mode	Description	N°max floors (default range)
1P	1 WIRE	**1 wire per floor**, each input (I1-I15) activates a floor	15 (-1-13)
B	BINARY	The inputs (I1-I6) encode the floor number in **binary**	64 (0-63)
BN	INVERTED BINARY	The inputs (I1-I6) encode the floor number in **inverted binary**	64 (0-63)
BC	BCD	The inputs (I1-I6) encode the floor number in **BCD**	29 (-9-19)
GR	GRAY	The inputs (I1-I6) encode the floor number in **GRAY**	64 (0-63)
B-	BINARY with minus sign	The inputs (I1-I6) encode the floor number in **binary** (see note below binary inputs configuration table)	41 (-9-31)
DE	DEMO	Lift virtual simulation with floors, arrows and alarms	16 (0-15)
AO	Stand alone NO	Stand-alone display mode (with magnetic NO sensors)	64 (-9-54)
AC	Stand alone NC	Stand-alone display mode (with magnetic NC sensors)	64 (-9-54)

3 PIN OUT


POWER
VIN
VCOM
1 2 3 4 5 6 7 8
INPUTS
9 10 11 12 13 14
BEEP
IN-1
IN-2
COM
Marking
x
VIN
VCOM
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
IN9
IN10
IN11
IN12
IN13
IN14
IN-1
IN-2
COM

3.1 PIN OUT: 1PPF

INPUT	DESCRIPTION/ DISPLAYED
VIN	12-24Vdc
VCOM	0V
IN1-I11	-1 - 9
I12	Gong
IN13	
IN14	
IN-1	Beep for push button
IN-2	Beep for push button
COM	Common for beep signal

3.2 PIN OUT: BINARY/INVERTED BINARY/GRAY

INPUT	DESCRIPTION/ DISPLAYED
VIN	12-24Vdc
GND	0V
I1-I6	-1 - 62
I12	Gong
IN13	
IN14	
IN-1	Beep for push button
IN-2	Beep for push button
COM	Common for beep signal

3.2.1 BINARY/ INVERTED BINARY/ BCD/ GRAY INPUTS CONFIGURATION

Binary	Inv. Binary	Display inputs					
		1	2	3	4	5	6
0	63	OFF	OFF	OFF	OFF	OFF	OFF
1	62	ON	OFF	OFF	OFF	OFF	OFF
2	61	OFF	ON	OFF	OFF	OFF	OFF
3	60	ON	ON	OFF	OFF	OFF	OFF
4	59	OFF	OFF	ON	OFF	OFF	OFF
5	58	ON	OFF	ON	OFF	OFF	OFF
6	57	OFF	ON	ON	OFF	OFF	OFF
7	56	ON	ON	ON	OFF	OFF	OFF
8	55	OFF	OFF	OFF	ON	OFF	OFF
9	54	ON	OFF	OFF	ON	OFF	OFF
10	53	OFF	ON	OFF	ON	OFF	OFF
11	52	ON	ON	OFF	ON	OFF	OFF
12	51	OFF	OFF	ON	ON	OFF	OFF
13	50	ON	OFF	ON	ON	OFF	OFF
14	49	OFF	ON	ON	ON	OFF	OFF
15	48	ON	ON	ON	ON	OFF	OFF
16	47	OFF	OFF	OFF	OFF	ON	OFF
17	46	ON	OFF	OFF	OFF	ON	OFF
18	45	OFF	ON	OFF	OFF	ON	OFF
19	44	ON	ON	OFF	OFF	ON	OFF
20	43	OFF	OFF	ON	OFF	ON	OFF
21	42	ON	OFF	ON	OFF	ON	OFF
22	41	OFF	ON	ON	OFF	ON	OFF
23	40	ON	ON	ON	OFF	ON	OFF
24	39	OFF	OFF	OFF	ON	ON	OFF
25	38	ON	OFF	OFF	ON	ON	OFF
26	37	OFF	ON	OFF	ON	ON	OFF
27	36	ON	ON	OFF	ON	ON	OFF
28	35	OFF	OFF	ON	ON	ON	OFF
29	34	ON	OFF	ON	ON	ON	OFF
30	33	OFF	ON	ON	ON	ON	OFF
31	32	ON	ON	ON	ON	ON	OFF

Binary	Inv. Binary	Display inputs					
		1	2	3	4	5	6
32	31	OFF	OFF	OFF	OFF	OFF	ON
33	30	ON	OFF	OFF	OFF	OFF	ON
34	29	OFF	ON	OFF	OFF	OFF	ON
35	28	ON	ON	OFF	OFF	OFF	ON
36	27	OFF	OFF	ON	OFF	OFF	ON
37	26	ON	OFF	ON	OFF	OFF	ON
38	25	OFF	ON	ON	OFF	OFF	ON
39	24	ON	ON	ON	OFF	OFF	ON
40	23	OFF	OFF	OFF	ON	OFF	ON
41	22	ON	OFF	OFF	ON	OFF	ON
42	21	OFF	ON	OFF	ON	OFF	ON
43	20	ON	ON	OFF	ON	OFF	ON
44	19	OFF	OFF	ON	ON	OFF	ON
45	18	ON	OFF	ON	ON	OFF	ON
46	17	OFF	ON	ON	ON	OFF	ON
47	16	ON	ON	ON	ON	OFF	ON
48	15	OFF	OFF	OFF	OFF	ON	ON
49	14	ON	OFF	OFF	OFF	ON	ON
50	13	OFF	ON	OFF	OFF	ON	ON
51	12	ON	ON	OFF	OFF	ON	ON
52	11	OFF	OFF	ON	OFF	ON	ON
53	10	ON	OFF	ON	OFF	ON	ON
54	9	OFF	ON	ON	OFF	ON	ON
55	8	ON	ON	ON	OFF	ON	ON
56	7	OFF	OFF	OFF	ON	ON	ON
57	6	ON	OFF	OFF	ON	ON	ON
58	5	OFF	ON	OFF	ON	ON	ON
59	4	ON	ON	OFF	ON	ON	ON
60	3	OFF	OFF	ON	ON	ON	ON
61	2	ON	OFF	ON	ON	ON	ON
62	1	OFF	ON	ON	ON	ON	ON
63	0	ON	ON	ON	ON	ON	ON

NOTE: Setting M2 = B- the I6 input enables the minus sign "-" for floors from -1 to -9.
(According to the binary truth table up to 31st floor)
The table refers to a display with the parameter **M3 = 0**, the position indication can be shifted by changing this value

BCD	Display inputs				
	1	2	3	4	5
0	ON	ON	ON	ON	OFF
1	OFF	ON	ON	ON	OFF
2	ON	OFF	ON	ON	OFF
3	OFF	OFF	ON	ON	OFF
4	ON	ON	OFF	ON	OFF
5	OFF	ON	OFF	ON	OFF
6	ON	OFF	OFF	ON	OFF
7	OFF	OFF	OFF	ON	OFF
8	ON	ON	ON	OFF	OFF
9	OFF	ON	ON	OFF	OFF

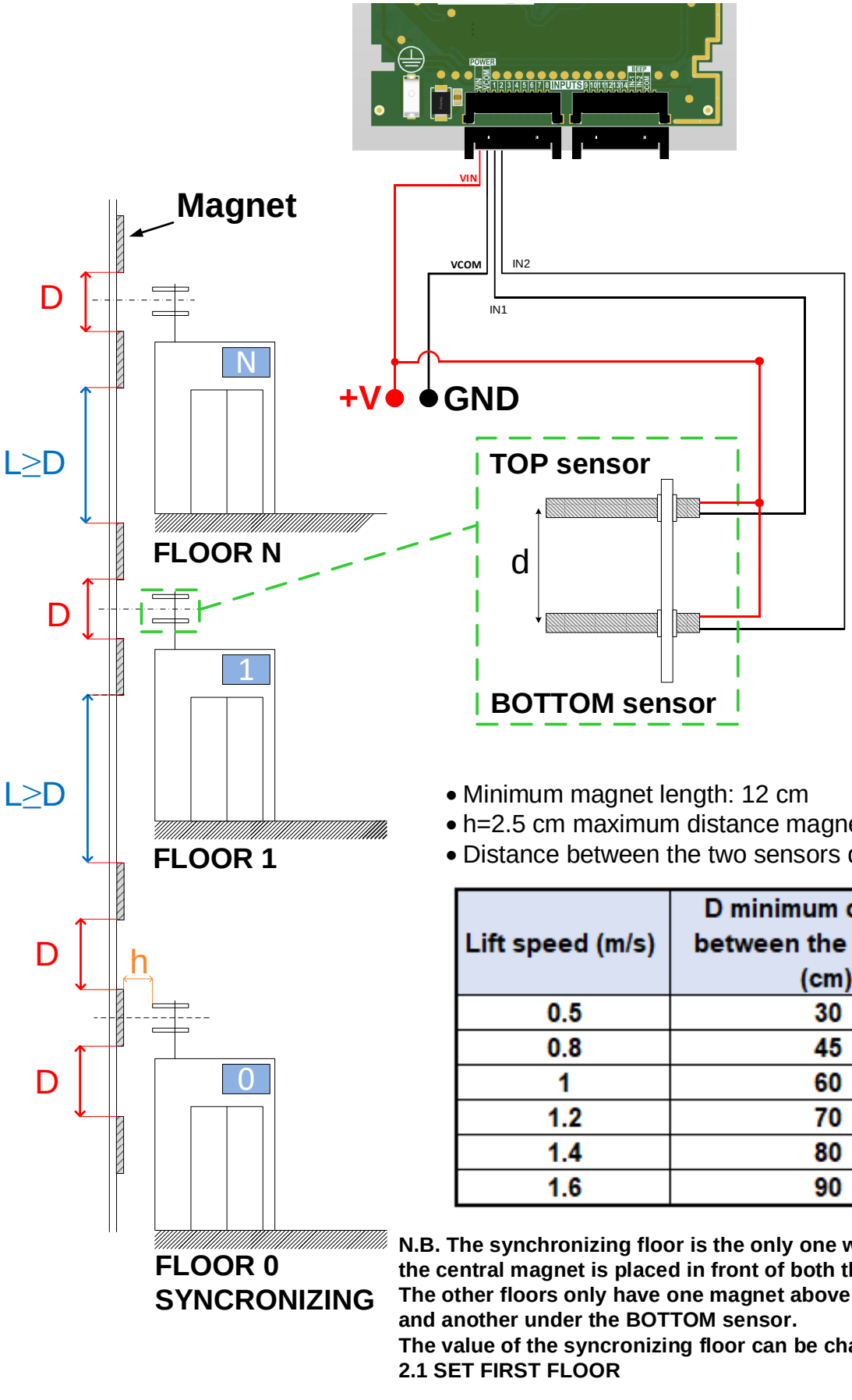
BCD	Display inputs				
	1	2	3	4	5
10	ON	ON	ON	ON	ON
11	OFF	ON	ON	ON	ON
12	ON	OFF	ON	ON	ON
13	OFF	OFF	ON	ON	ON
14	ON	ON	OFF	ON	ON
15	OFF	ON	OFF	ON	ON
16	ON	OFF	OFF	ON	ON
17	OFF	OFF	OFF	ON	ON
18	ON	ON	ON	OFF	ON
19	OFF	ON	ON	OFF	ON

NOTE: to use BCD, set the parameter **M3 = 0.** The input I6 activates the minus sign. If the inputs I5 and I6 are both ON, only the tens will be displayed.

Gray	Display inputs						Gray	Display inputs					
	1	2	3	4	5	6		1	2	3	4	5	6
0	OFF	OFF	OFF	OFF	OFF	OFF	32	OFF	OFF	OFF	OFF	ON	ON
1	ON	OFF	OFF	OFF	OFF	OFF	33	ON	OFF	OFF	OFF	ON	ON
2	ON	ON	OFF	OFF	OFF	OFF	34	ON	ON	OFF	OFF	ON	ON
3	OFF	ON	OFF	OFF	OFF	OFF	35	OFF	ON	OFF	OFF	ON	ON
4	OFF	ON	ON	OFF	OFF	OFF	36	OFF	ON	ON	OFF	ON	ON
5	ON	ON	ON	OFF	OFF	OFF	37	ON	ON	ON	OFF	ON	ON
6	ON	OFF	ON	OFF	OFF	OFF	38	ON	OFF	ON	OFF	ON	ON
7	OFF	OFF	ON	OFF	OFF	OFF	39	OFF	OFF	ON	OFF	ON	ON
8	OFF	OFF	ON	ON	OFF	OFF	40	OFF	OFF	ON	ON	ON	ON
9	ON	OFF	ON	ON	OFF	OFF	41	ON	OFF	ON	ON	ON	ON
10	ON	ON	ON	ON	OFF	OFF	42	ON	ON	ON	ON	ON	ON
11	OFF	ON	ON	ON	OFF	OFF	43	OFF	ON	ON	ON	ON	ON
12	OFF	ON	OFF	ON	OFF	OFF	44	OFF	ON	OFF	ON	ON	ON
13	ON	ON	OFF	ON	OFF	OFF	45	ON	ON	OFF	ON	ON	ON
14	ON	OFF	OFF	ON	OFF	OFF	46	ON	OFF	OFF	ON	ON	ON
15	OFF	OFF	OFF	ON	OFF	OFF	47	OFF	OFF	OFF	ON	ON	ON
16	OFF	OFF	OFF	ON	ON	OFF	48	OFF	OFF	OFF	ON	OFF	ON
17	ON	OFF	OFF	ON	ON	OFF	49	ON	OFF	OFF	ON	OFF	ON
18	ON	ON	OFF	ON	ON	OFF	50	ON	ON	OFF	ON	OFF	ON
19	OFF	ON	OFF	ON	ON	OFF	51	OFF	ON	OFF	ON	OFF	ON
20	OFF	ON	ON	ON	ON	OFF	52	OFF	ON	ON	ON	OFF	ON
21	ON	ON	ON	ON	ON	OFF	53	ON	ON	ON	ON	OFF	ON
22	ON	OFF	ON	ON	ON	OFF	54	ON	OFF	ON	ON	OFF	ON
23	OFF	OFF	ON	ON	ON	OFF	55	OFF	OFF	ON	ON	OFF	ON
24	OFF	OFF	ON	OFF	ON	OFF	56	OFF	OFF	ON	OFF	OFF	ON
25	ON	OFF	ON	OFF	ON	OFF	57	ON	OFF	ON	OFF	OFF	ON
26	ON	ON	ON	OFF	ON	OFF	58	ON	ON	ON	OFF	OFF	ON
27	OFF	ON	ON	OFF	ON	OFF	59	OFF	ON	ON	OFF	OFF	ON
28	OFF	ON	OFF	OFF	ON	OFF	60	OFF	ON	OFF	OFF	OFF	ON
29	ON	ON	OFF	OFF	ON	OFF	61	ON	ON	OFF	OFF	OFF	ON
30	ON	OFF	OFF	OFF	ON	OFF	62	ON	OFF	OFF	OFF	OFF	ON
31	OFF	OFF	OFF	OFF	ON	OFF	63	OFF	OFF	OFF	OFF	OFF	ON

The table refers to a display with the parameter **M3 = 0**, the position indication can be shifted by changing this value

3.3 PIN OUT: STAND ALONE



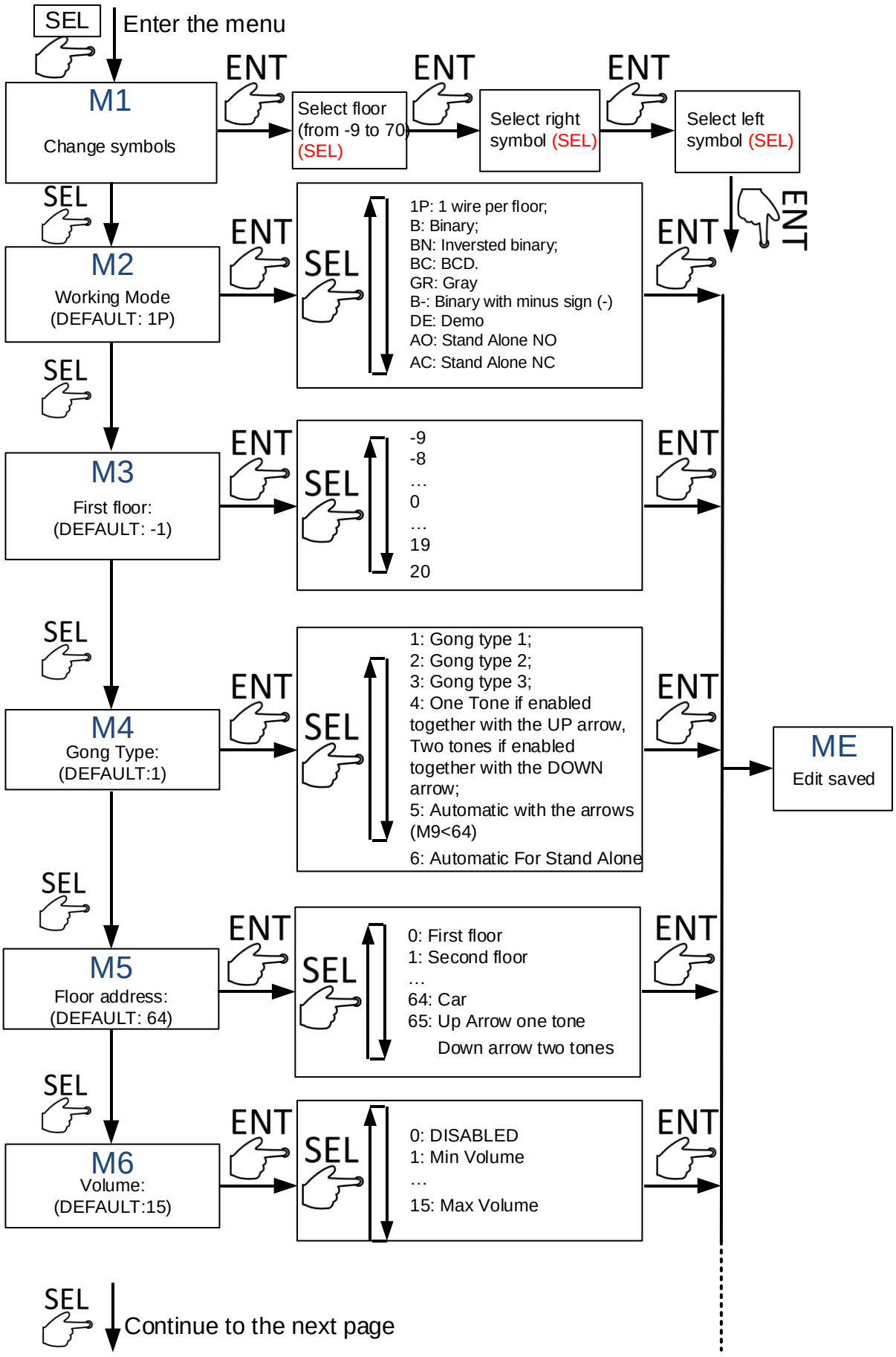
- Minimum magnet length: 12 cm
- h=2.5 cm maximum distance magnet-sensors
- Distance between the two sensors d=6 cm

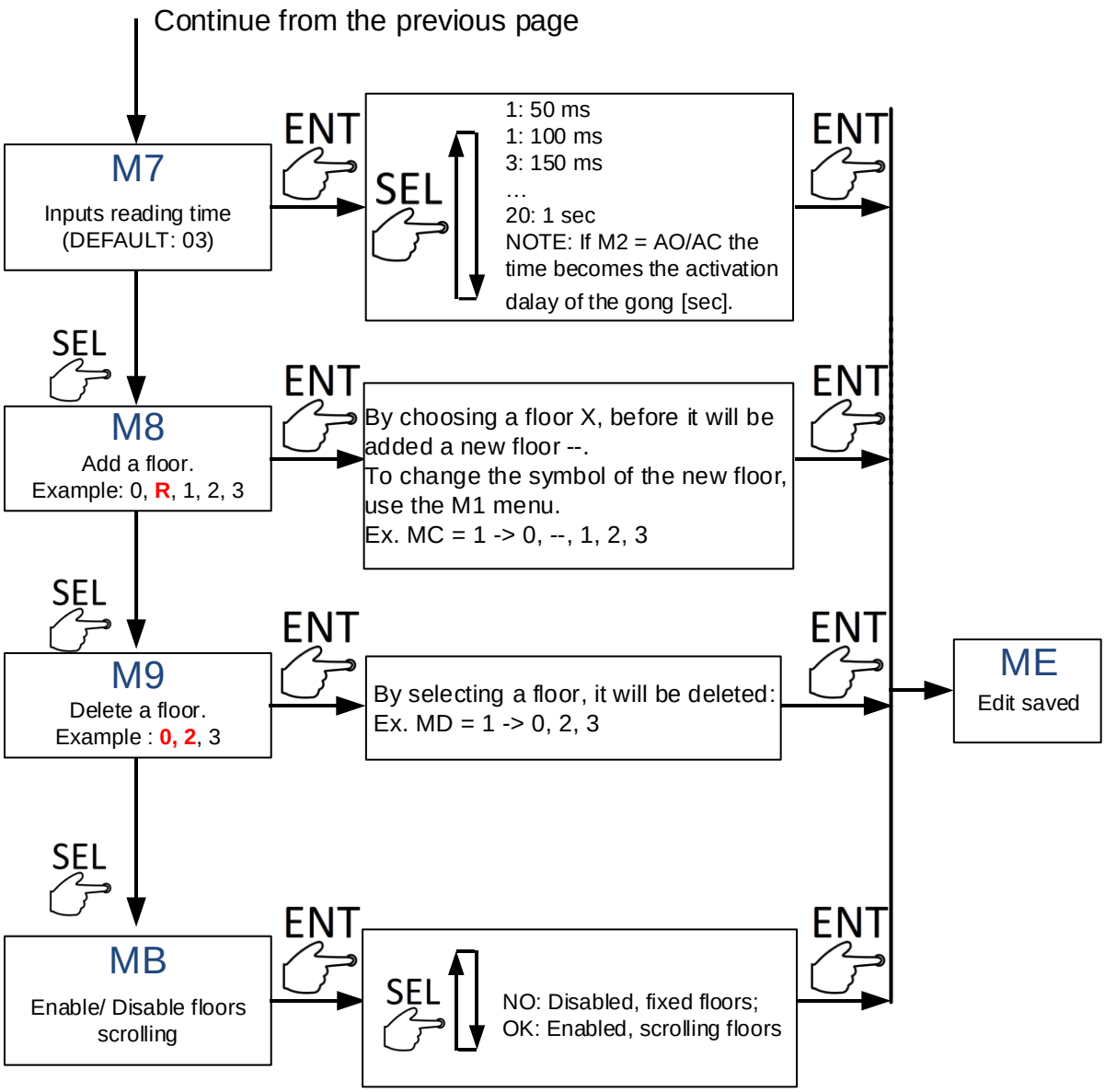
Lift speed (m/s)	D minimum distance between the magnets (cm)
0.5	30
0.8	45
1	60
1.2	70
1.4	80
1.6	90

N.B. The synchronizing floor is the only one with three magnets, the central magnet is placed in front of both the sensors.
The other floors only have one magnet above the TOP sensor and another under the BOTTOM sensor.
The value of the syncronizing floor can be changed by the parameter 2.1 SET FIRST FLOOR

4 DISPLAY PROGRAMMING

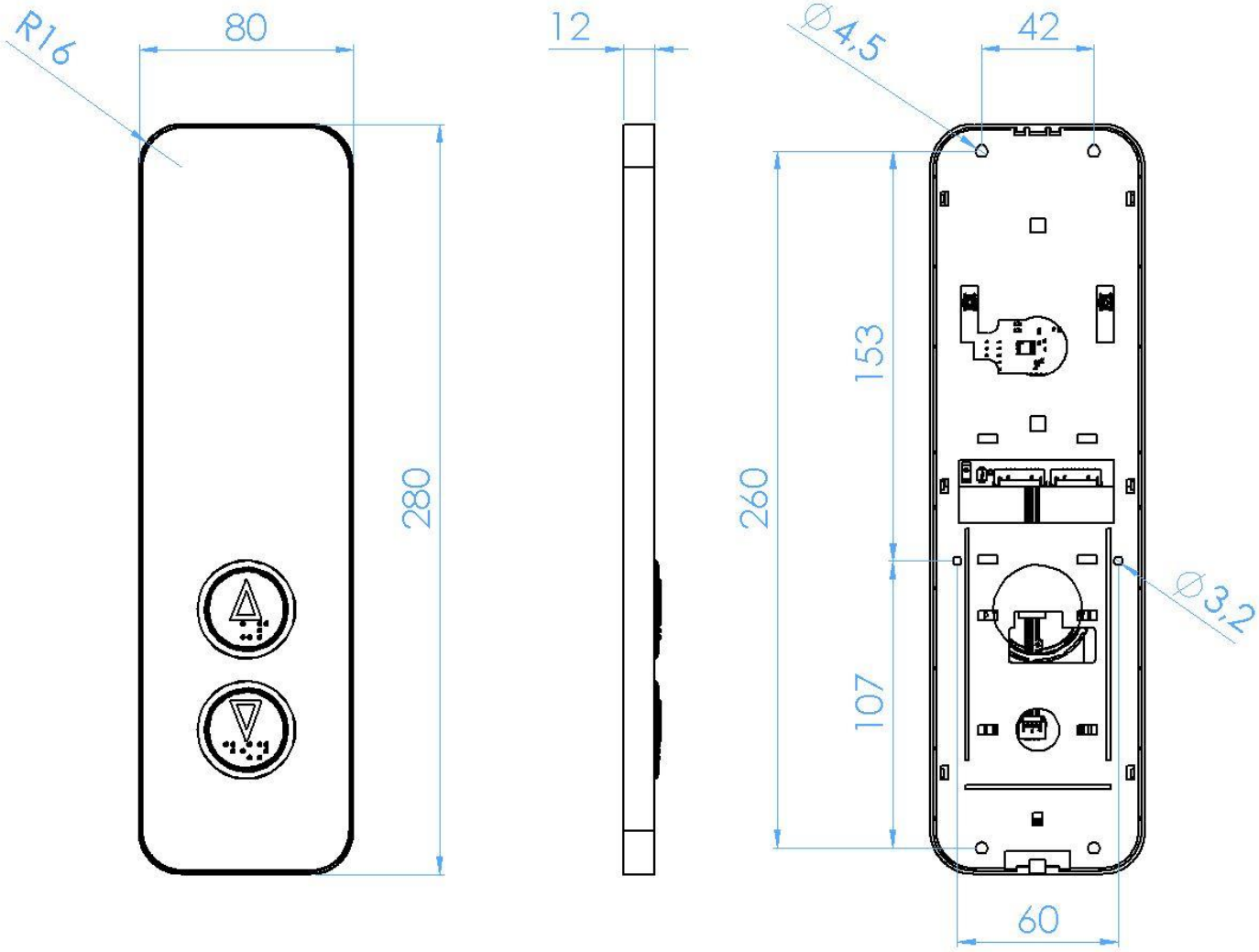
The programming is made by SEL and ENT push buttons





NOTE: to reset default settings, hold the ENT button down until the ME symbol is shown on the display (about 5 seconds).

5 DIMENSIONS AND CUTOUTS



6 TECHNICAL FEATURES

Structure	Plate without box, suitable for renovations. Wall break-in not necessary.
Width	80mm (not customizable)
Height	280mm (not customizable)
Thickness	10mm (not customizable)
Materials	Front plate in PMMA and back frame in nylon.
Finishes	Smoked black.
Configurations	1 DMX display and 1 push-button or 1 DMX display and 2 push-buttons.
Display	White LEDs. All floors from -19 to 99 managed by electrical panel.
Wiring	With free wire connectors headed. Parallel.
Push-buttons	Alpha. Structure in nylon (PA12) with external surface covered in AISI 304 stainless steel lightable numeral or relief decoration and braille.
Customizations	Not customizable with other displays or push-buttons.

If the device is installed on a metal plate, it is recommended to connect it to the grounding system.

ITALIAN STYLE FOR LIFTS

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