



ITALIAN STYLE FOR LIFTS

Vision line boards

Rev.00

COP

COP-VISION-DMX-PAR-LEM-4I-W → Positive and negative common

DOT MATRIX COP display with icons and Emergency Light (EN 81-20)



ORDERING INFO

CODE	DESCRIPTION
COP-VISION-DMX-PAR-LEM-4I-W	Dot Matrix COP display with white arrows, floors numbering, 4 alarm pictograms and Emergency Light
CU31.JST20D.32F-FIL.31M.0150-USL-V00	Cable for display connection, length 1,5m



ITALIAN STYLE FOR LIFTS

SUMMARY

1	COP-VISION-DMX-PAR-LEM-4I-W	Error! Bookmark not defined.
2	WORKING MODE	2
3	PIN OUT.....	3
3.1	PIN OUT: 1PPF.....	4
3.2	PIN OUT: BINARY/INVERTED BINARY/GRAY	5
3.2.1	BINARY/ INVERTED BINARY/ BCD/ GRAY INPUTS CONFIGURATION	6
3.3	PIN OUT: STAND ALONE.....	8
4	DISPLAY PROGRAMMING	9
5	DIMENSIONS AND CUTOUTS	11
6	TECHNICAL FEATURES.....	12

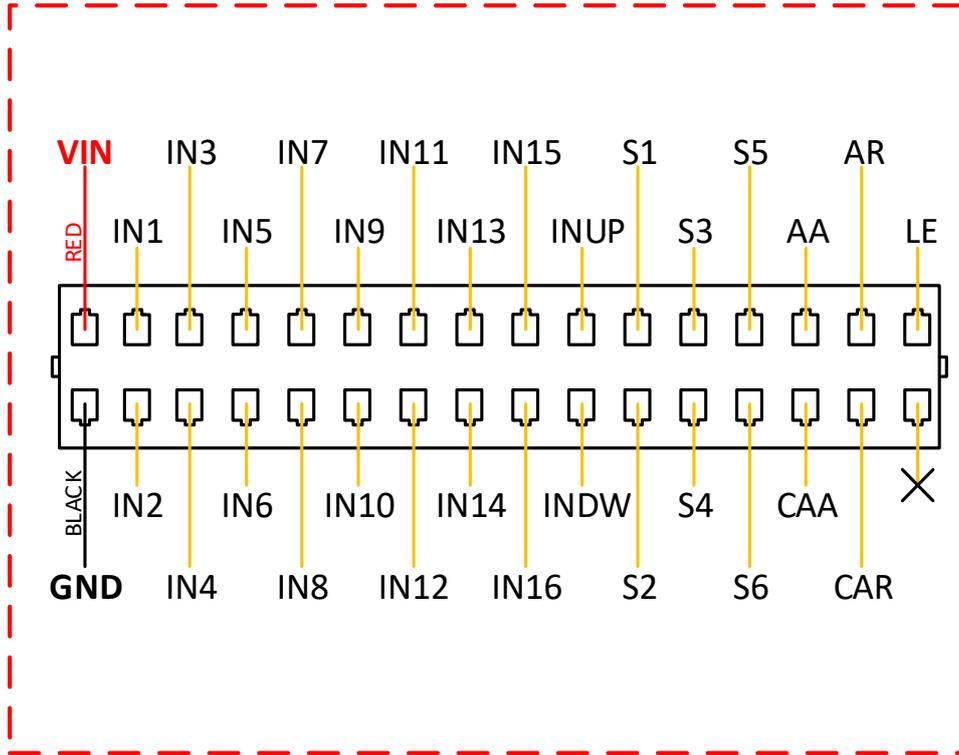
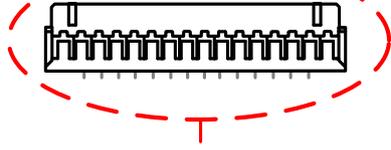
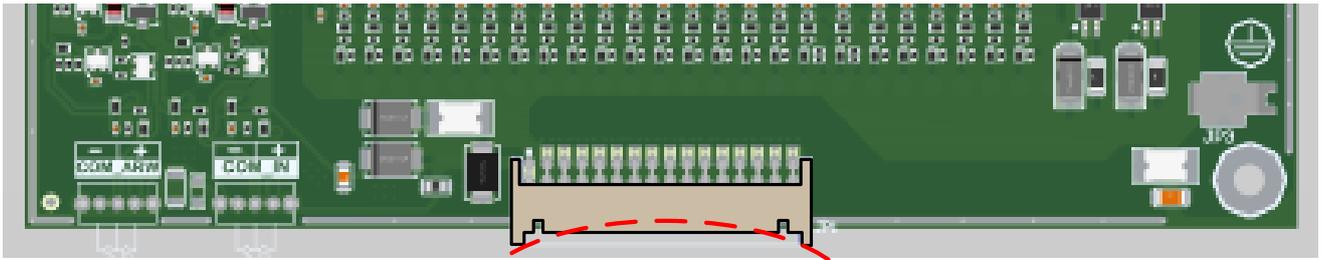
1 COP-VISION-DMX-PAR-LEM-4I-W

Power Supply	12-24Vdc±10%
Maximum current consumption	320 mA @ 12Vdc 220 mA @ 24Vdc
Operating temperature	-15°C / +50°C
Connectors	JST 2mm (32p – 16x2)

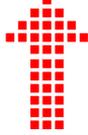
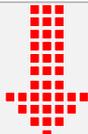
2 WORKING MODE

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)

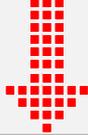
3 PIN OUT



3.1 PIN OUT: 1PPF

INPUT	DESCRIPTION/ DISPLAYED
VIN	12-24Vdc
GND	0V
I1-I15	-1 - 13
I16	Gong
INUP	
INDW	
S1	
S2	
S3	
S4	
S5	
S6	
AA	
AR	
CAA	Alarms common
LE	Emergency Light

3.2 PIN OUT: BINARY/INVERTED BINARY/GRAY

INPUT	DESCRIPTION/ DISPLAYED
VIN	12-24Vdc
GND	0V
I1-I6	-1 - 62
I16	Gong
INUP	
INDW	
S1	
S2	
S3	
S4	
S5	
S6	
AA	
AR	
CAA	Alarms common
LE	Emergency Light

3.2.1 BINARY/ INVERTED BINARY/ BCD/ GRAY INPUTS CONFIGURATION

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

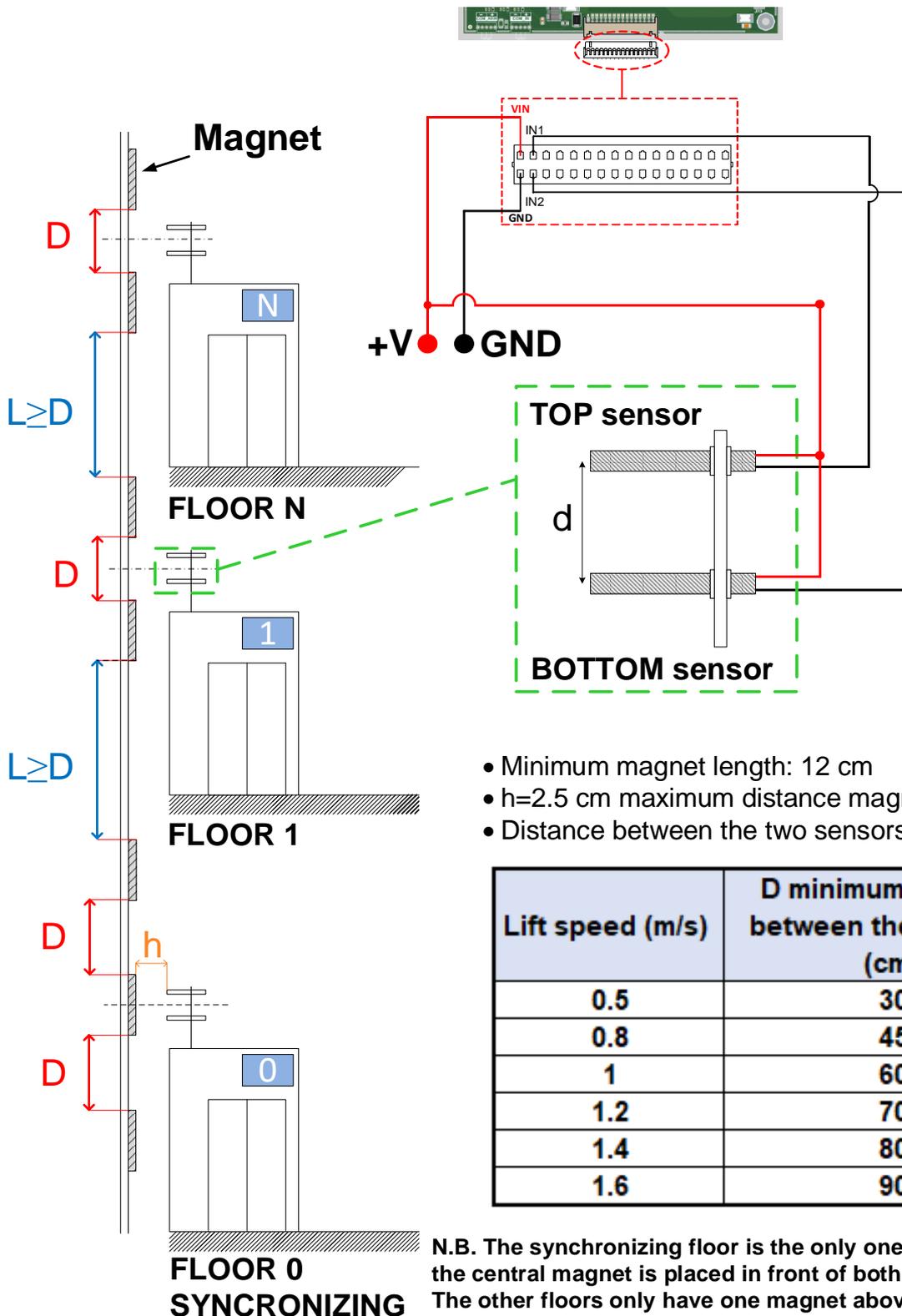
BCD	Display inputs				
	1	2	3	4	5
10	ON	ON	ON	ON	ON
11	OFF	ON	ON	ON	ON
12	ON	OFF	ON	ON	ON
13	OFF	OFF	ON	ON	ON
14	ON	ON	OFF	ON	ON
15	OFF	ON	OFF	ON	ON
16	ON	OFF	OFF	ON	ON
17	OFF	OFF	OFF	ON	ON
18	ON	ON	ON	OFF	ON
19	OFF	ON	ON	OFF	ON

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



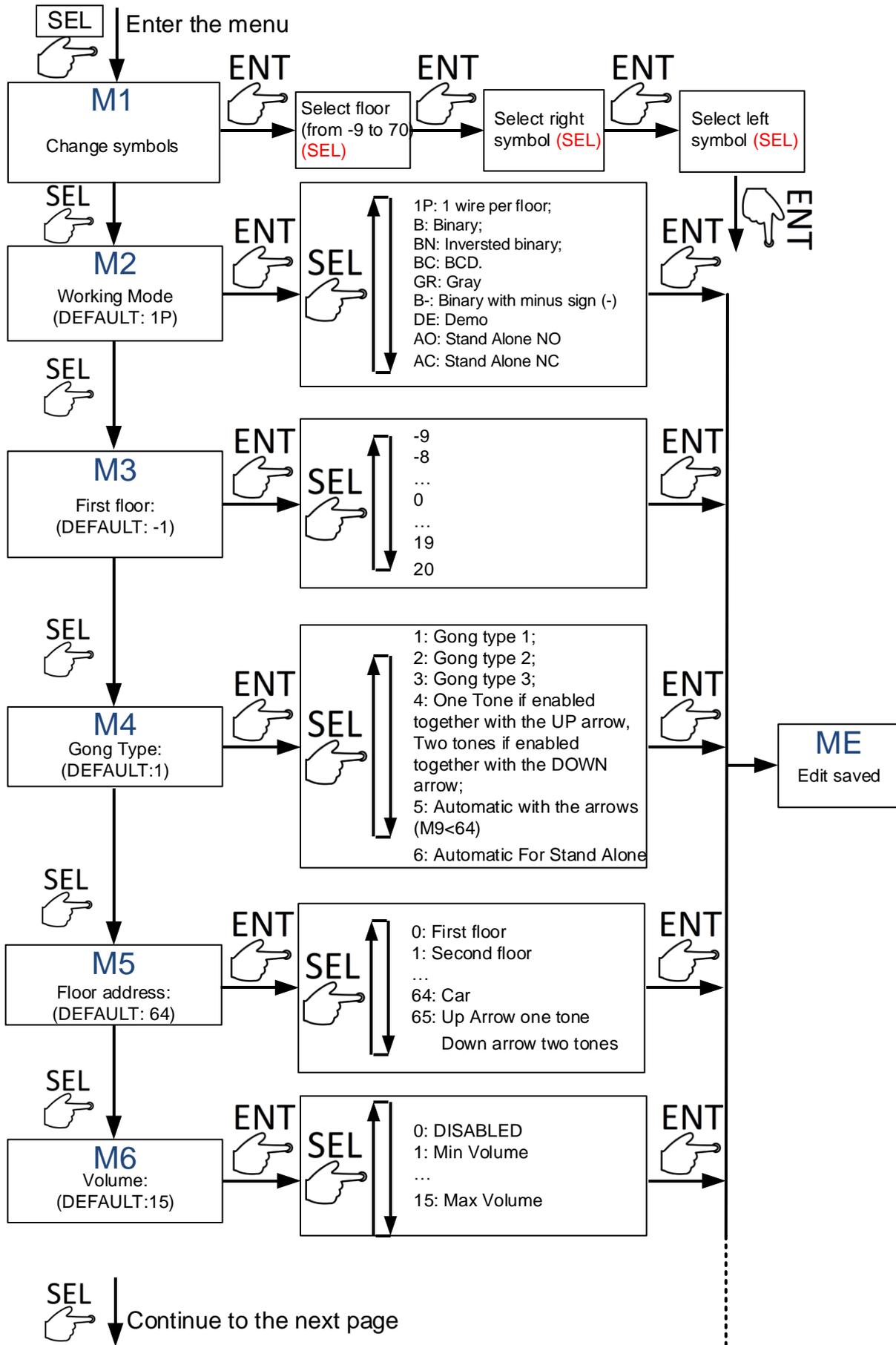
- Minimum magnet length: 12 cm
- $h=2.5$ cm maximum distance magnet-sensors
- Distance between the two sensors $d=6$ cm

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

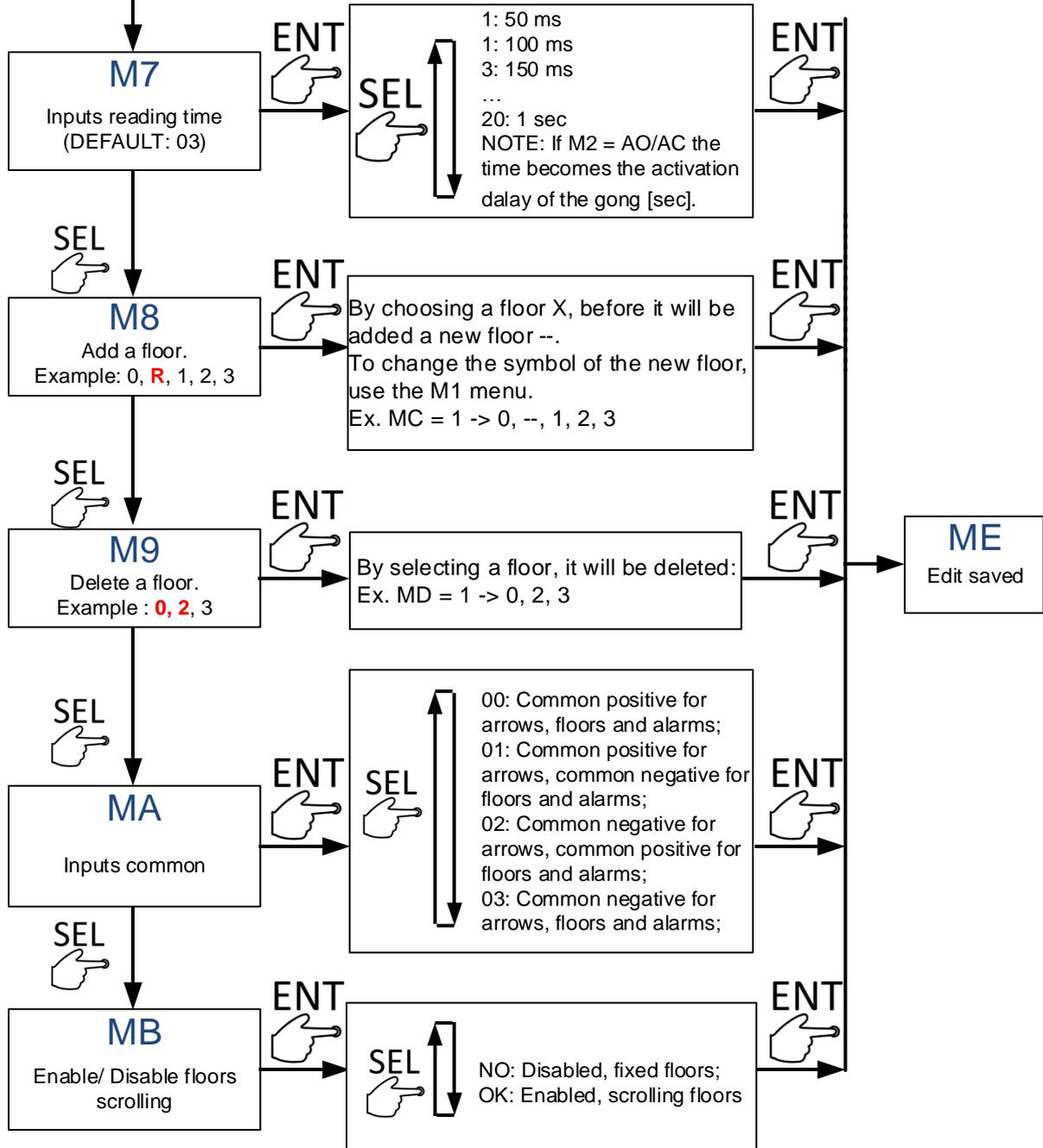
N.B. The synchronizing floor is the only one with three magnets, the central magnet is placed in front of both the sensors. The other floors only have one magnet above the TOP sensor and another under the BOTTOM sensor. The value of the synchronizing floor can be changed by the parameter 2.1 SET FIRST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

4 DISPLAY PROGRAMMING

The programming is made by SEL and ENT push buttons

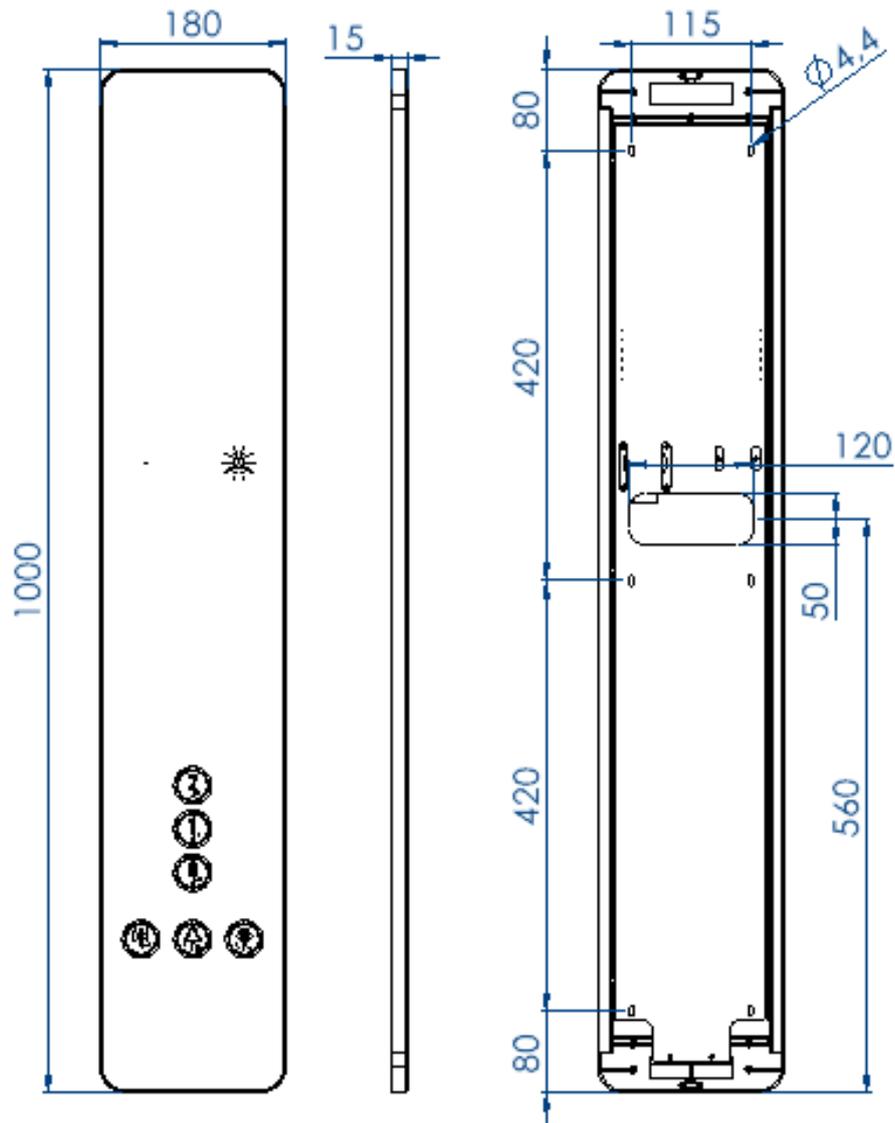


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NOTE: to reset default settings, hold the ENT button down until the ME symbol is shown on the display (about 5 seconds).

5 DIMENSIONS AND CUTOUTS



6 TECHNICAL FEATURES

Structure	Plate without box, suitable for renovations. Wall break-in not necessary.
Width	180mm (not customizable)
Height	1000mm (not customizable)
Thickness	10mm (not customizable)
Materials	Front plate in PMMA and back frame in sheet metal.
Finishes	Smoked black.
Configurations	With DMX display. Max configuration with 15 floors and 6 services.
Display	White LEDs. Possibility to manage floors from -19 to 19.
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.

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