



USER MANUAL ENGLISH
ENCODER
PARALLEL→SERIAL
ENC202

Fw: 15

Rev.4

1 DATA SHEET

DIMENSIONS	167 x 72 x h22 (mm)
POWER SUPPLY VOLTAGE	From 12 to 24 Vdc
CURRENT ABSORPTION AND POWER	65mA @12V (0,78W) 130mA @24V (3,1W)
IN 1-IN 8 INPUTS ACTIVATION	12-24 Vdc
IN 9-IN 16 INPUTS ACTIVATION	
UP AND DOWN INPUTS ACTIVATION	
TR INPUT ACTIVATION	
OUTPUTS	One wire for serial
INPUTS TYPE	See par.3

2 WORKING MODE

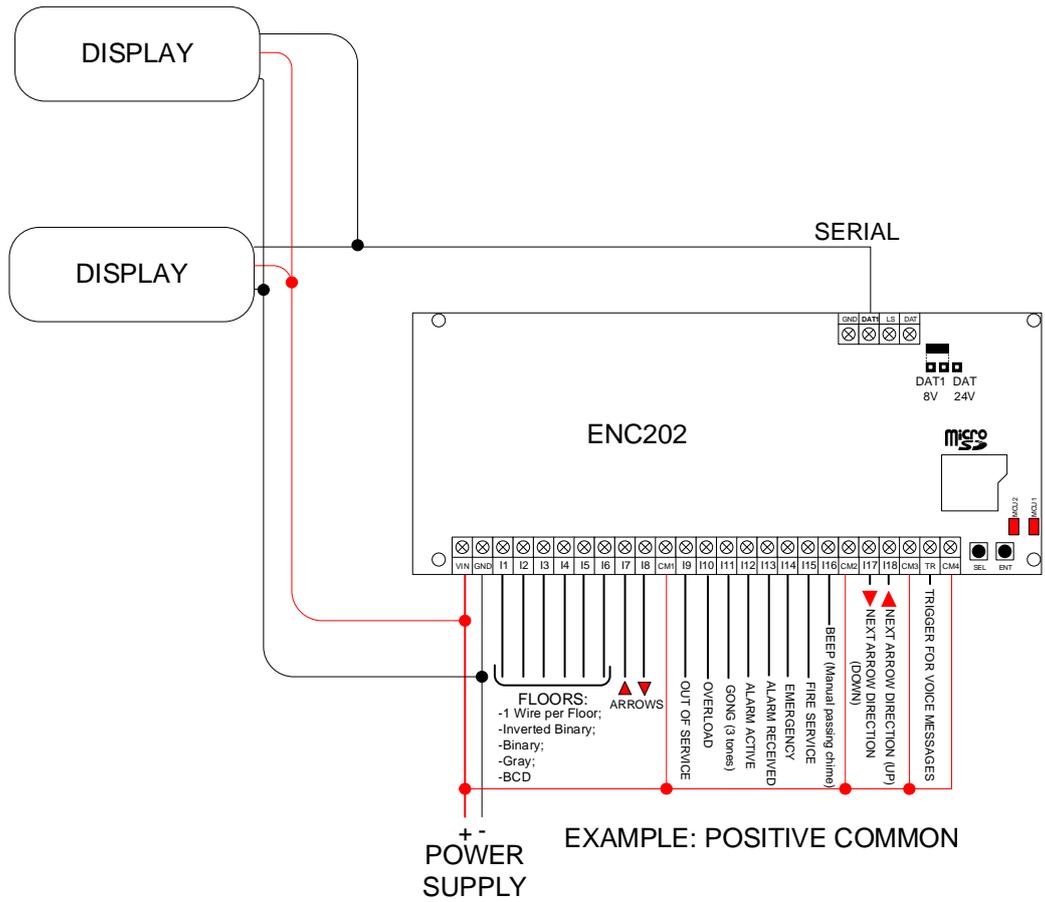
Displayed Symbol	Description	No. max floors (default range)
1P	1 wire per floor , each input (I1-I7) activates a floor	7 (0,6)
BN	The inputs (1-6) encode the floor number in inverted binary	64 (0,63)
B	The inputs (1-6) encode the floor number in binary	64 (0,63)
BC	The inputs (1-6) encode the floor number in BCD	29 (-9,19)
GR	The inputs (1-6) encode the floor number in GRAY	64 (0,63)
AO	Stand-alone display mode (with magnetic NO sensors)	64 (-9,54)
AC	Stand-alone display mode (with magnetic NC sensors)	64 (-9,54)
DE	Lift virtual simulation with floors, arrows and alarms	10 (1,10)

3 CONNECTION DIAGRAM

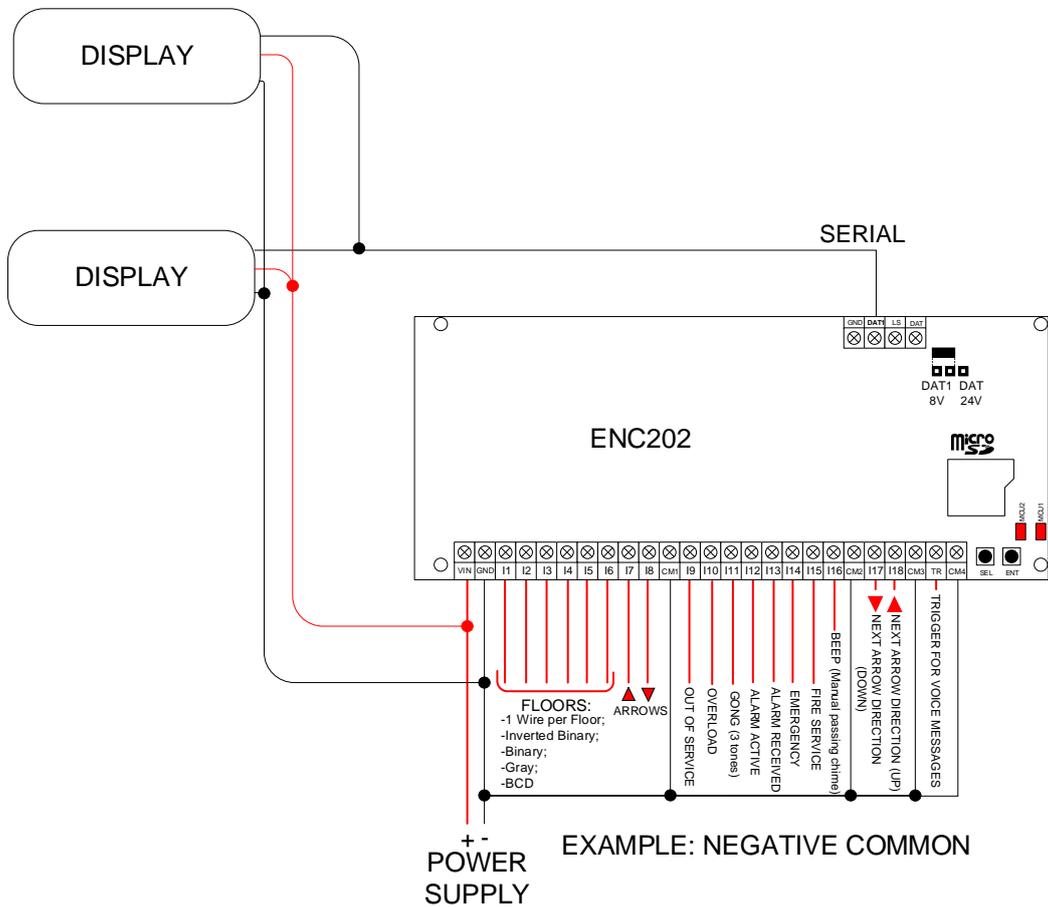
INPUT ACTIVATION

In discrete wiring modes (1 wire per floor, Inverted Binary, Binary, BCD, Gray, Stand alone) the board can work in **common anode** or **common cathode** mode by connecting opportunely COM1, COM2, COM3 and COM4. See the following diagrams:

Common Anode:



Common Cathode:



4 PINOUT

PINOUT (1 WIRE PER FLOOR)

INPUT	DESCRIPTION
VIN/GND	Power supply +12/24Vdc
I1-I7	Floor inputs
I8	Up arrow
CM1	Common 1 (inputs from I1 to I8)
I9	Down arrow
I10	Out of service
I11	Overload
I12	Gong
I13	Alarm active
I14	Alarm received
I15	Emergency
I16	Fire service
CM2	Common 2 (inputs from I9 to I16)
I17	Going down (arrow) next direction
I18	Going up (arrow) next direction
CM3	Common 3 (inputs from I17 to I18)
TR	Trigger for floor message (audio)
CM4	Common 4 (input TR)

PINOUT (INVERTED BINARY/BINARY/GRAY/BCD)

INPUT	DESCRIPTION
VIN/GND	Power supply +12/24Vdc
I1-I6	Floor inputs
I7	Up arrow
I8	Down arrow
CM1	Common 1 (inputs from I1 to I8)
I9	Out of service
I10	Overload
I11	Gong
I12	Alarm reported
I13	Alarm received
I14	Emergency
I15	Fire service
I16	Beep passing chime
CM2	Common 2 (inputs from I9 to I16)
I17	Going down (arrow) next direction
I18	Going up (arrow) next direction
CM3	Common 3 (inputs from I17 to I18)
TR	Trigger for floor message (audio)
CM4	Common 4 (input TR)

SERIAL DEVICES PROGRAMMING (3 wires):

CODE	DISPLAY PROGRAMMING MENU
DSP-ALPHA-05-S08-SR	M5=1
DSP-ALPHA-10-S08-SR	
DSP-ALPHA-20-S08-SR	
TFT462FH-A	RS485 ENC
TFT762-A	SERIAL ENC(x762)

Binary / Inverted binary code:

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

NOTE: The tables above relate to the encoding with offset set to "0". MENU FIRST FLOOR [M2]=00

BCD code:

BCD	Display inputs					BCD	Display inputs				
	1	2	3	4	5		1	2	3	4	5
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

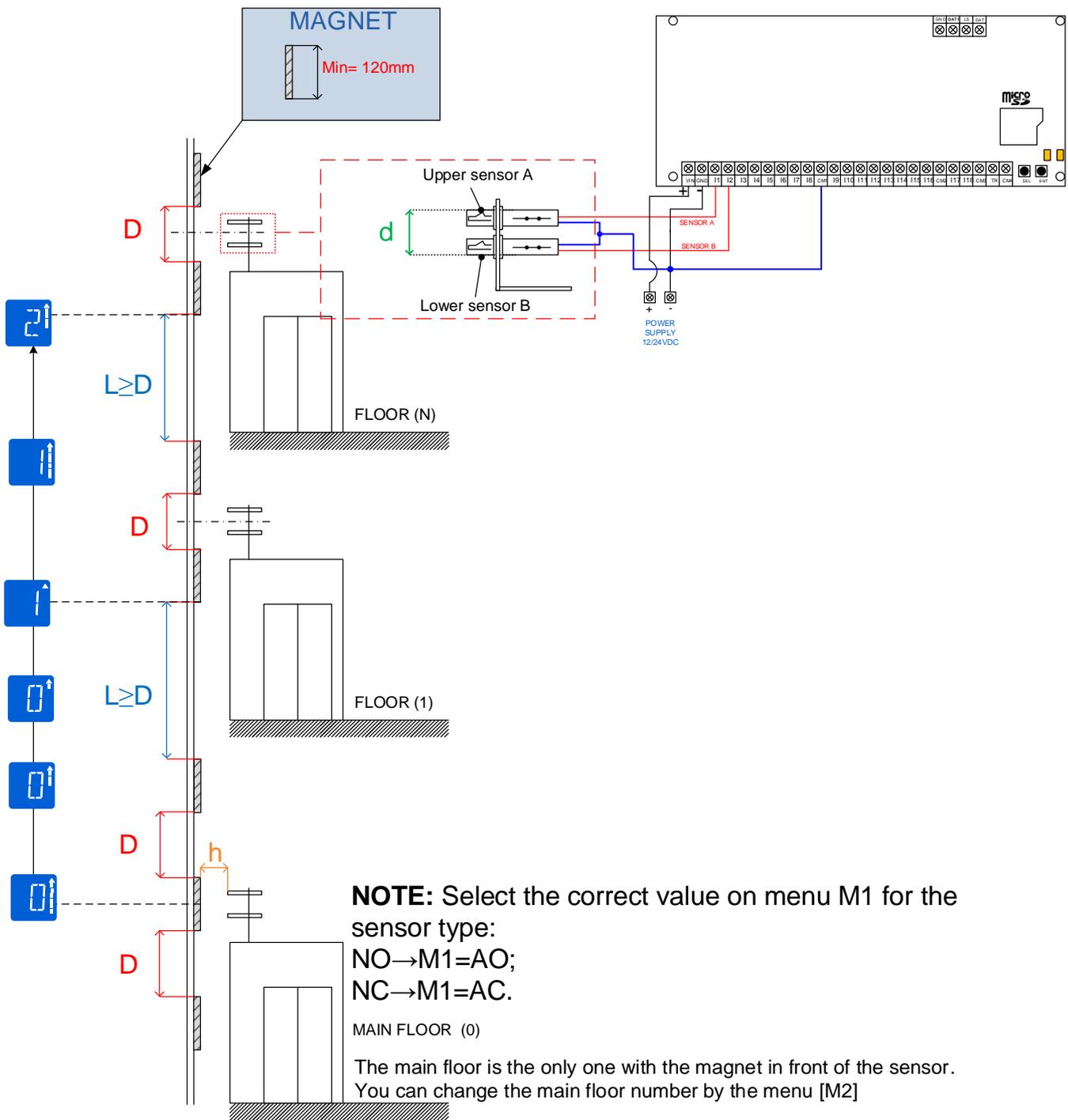
NOTE: I5 is used for the tens while I6 is used to display the sign "-". If both active, the I6 has priority.

Gray code:

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

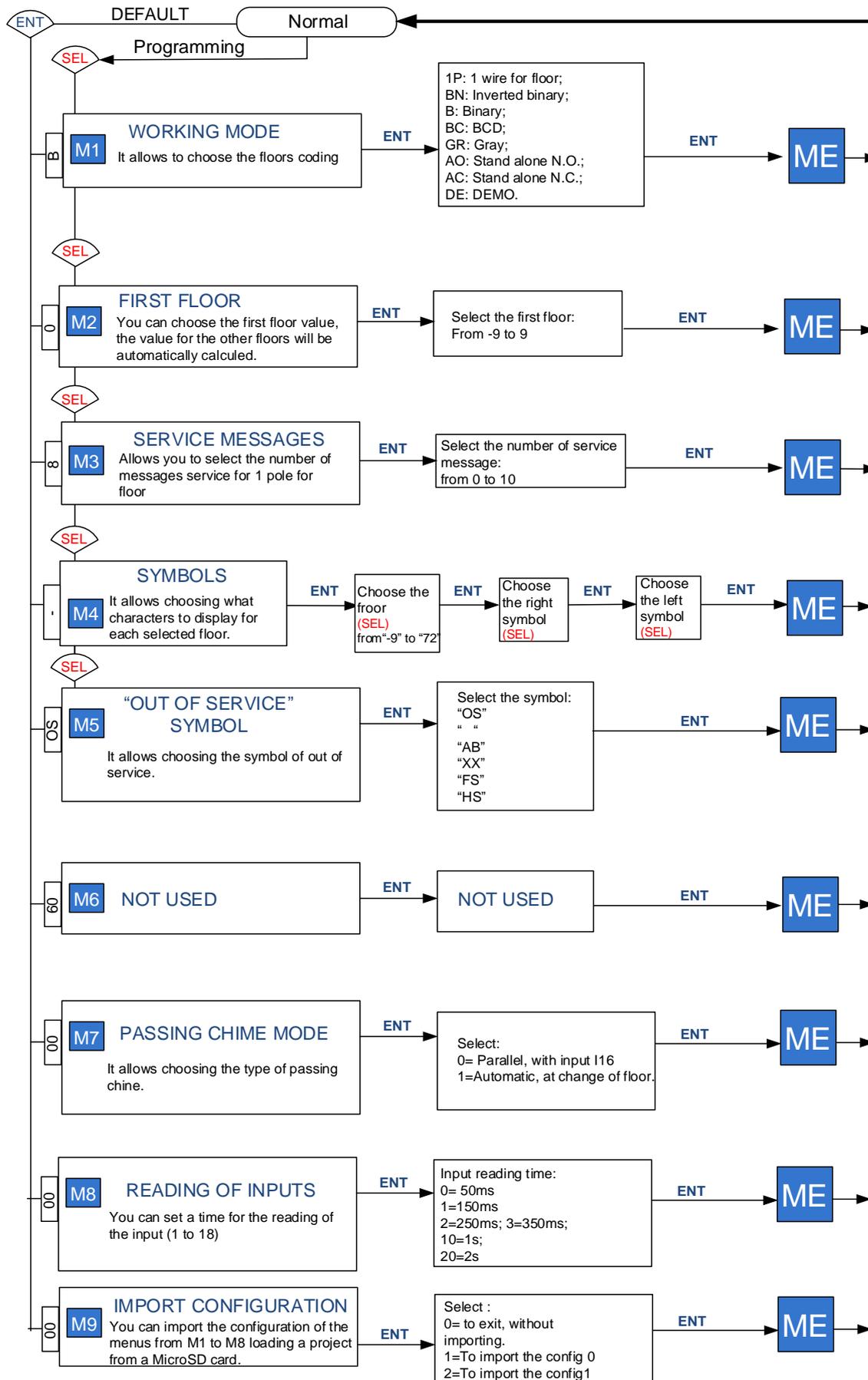
NOTE: The tables above relate to the encoding with offset set to "0". MENU FIRST FLOOR [M2]=00

5 STAND-ALONE PINOUT



6 PROGRAMMING MODE

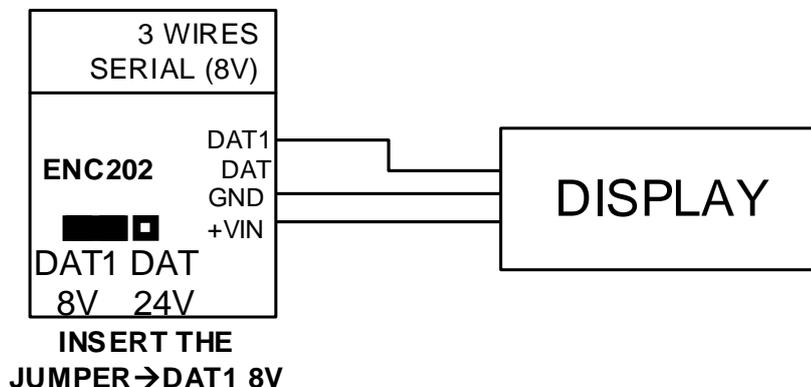
The board can be programmed using two buttons **SEL** (selection), **ENT** (enter and confirm).



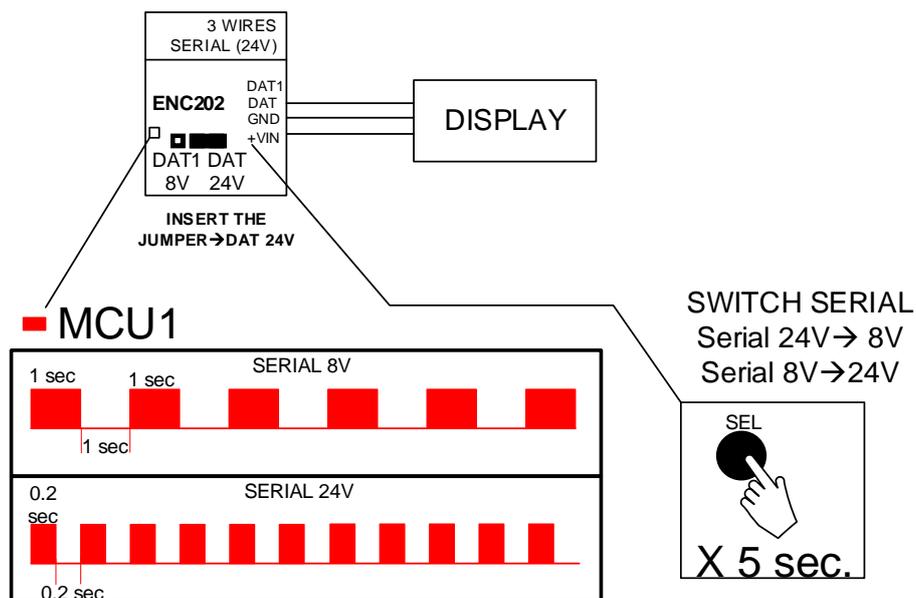
7 DEVICES COMPATIBLE WITH ENC202 (8V or 24V)

DEFAULT CONFIGURATION

NEW CODES (8V)
DSP-ALPHA-05-DR
DSP-ALPHA-05-S08-DR
DSP-ALPHA-05-S08-SR
DSP-ALPHA-10-S08-SR-L
DSP-ALPHA-10-S08-SR-SD
DSP-ALPHA-20-S08-SR
TFT462FH
TFT762-A

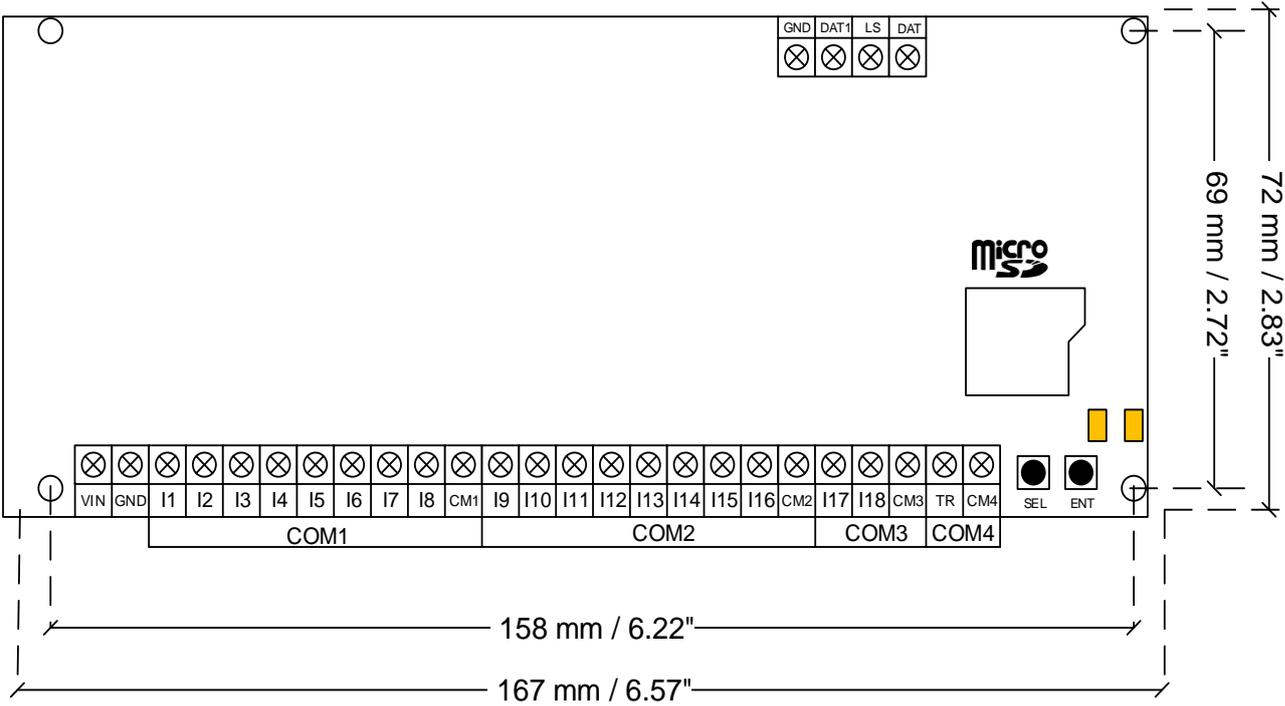


OLD CODES (24V)
DSP-ALPHA-05-485-SR
DSP-ALPHA-10-485-L-SR
DSP-ALPHA-10-485-SR-SD
DSP-ALPHA-20-485-SR
TFT461FH
TFT761-A
SNV211



NOTE: It is not possible to use 8V and 24V devices on the same encoder!

8 DIMENSIONS



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

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