

4,3"/5" RAFFAELLO Display

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✓ Updated to EN81-28:2018 regulation.



Safety and usage cautions

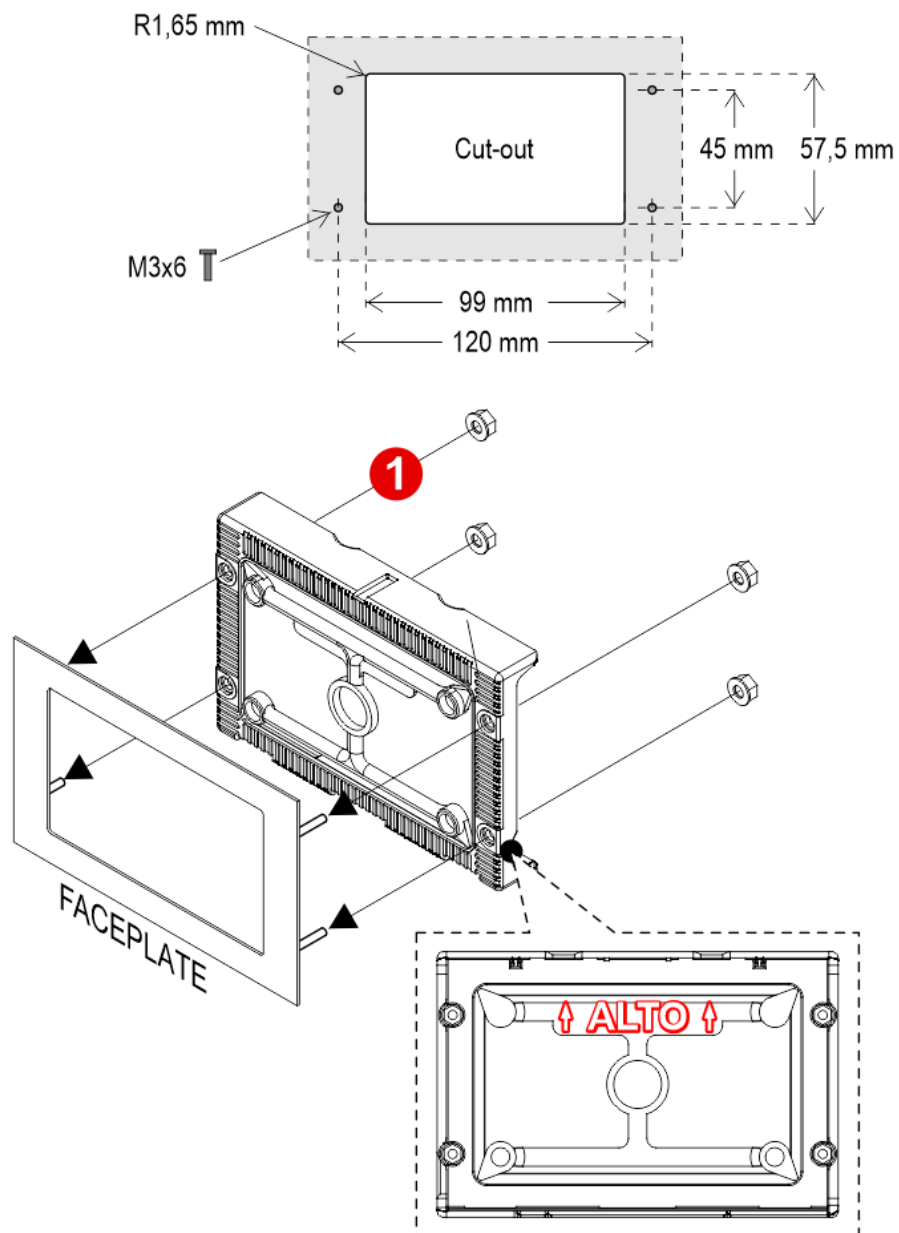
Before installing our products, we recommend you to consult the section about safety and usage cautions at the link below.

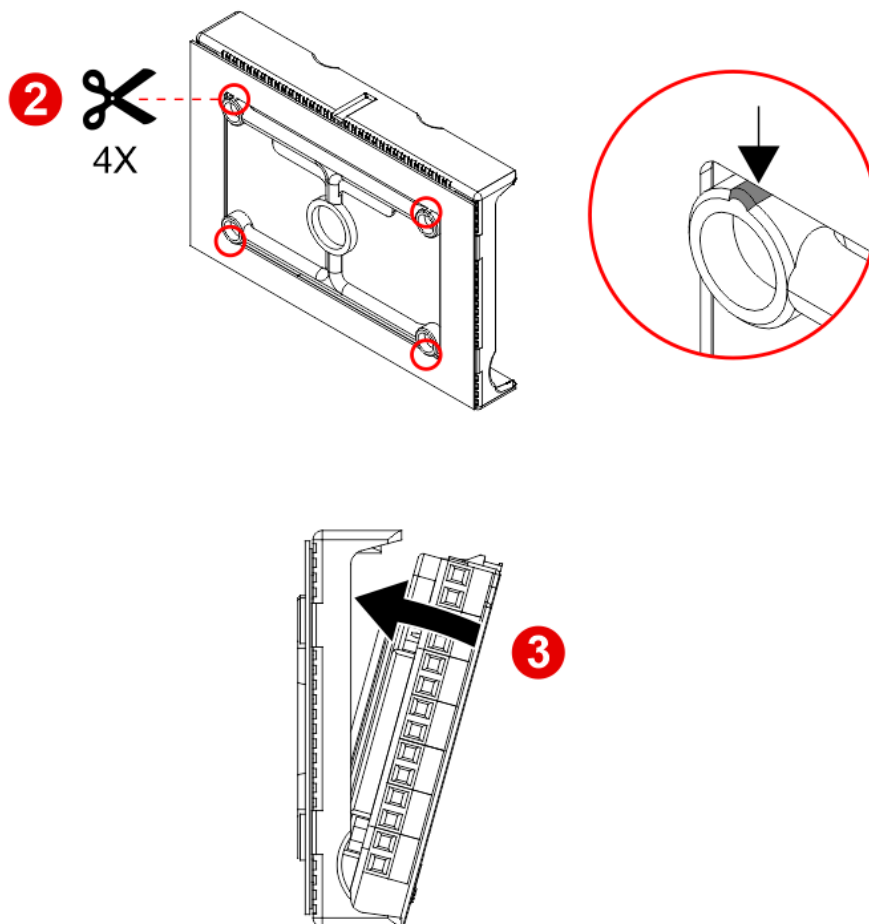


Mounting

— Raffaello 4.3"

With welded pins on 1,5/3 mm pushbutton panel

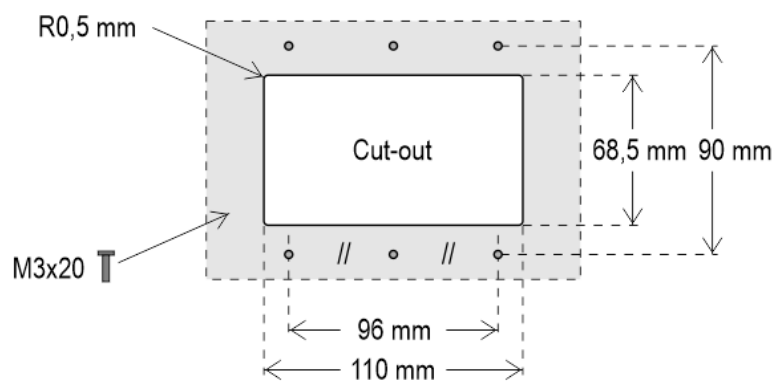


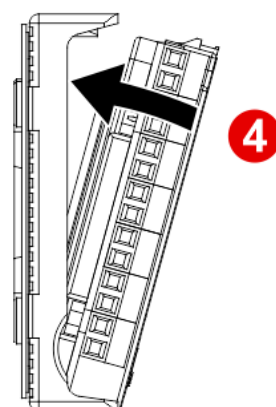
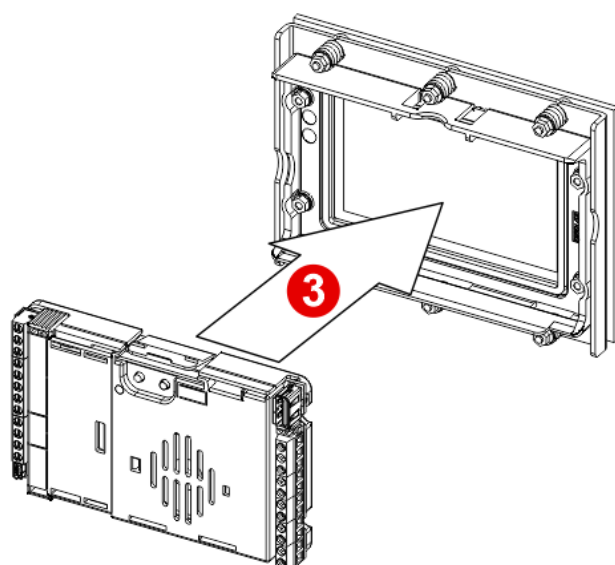
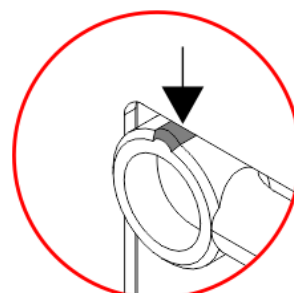
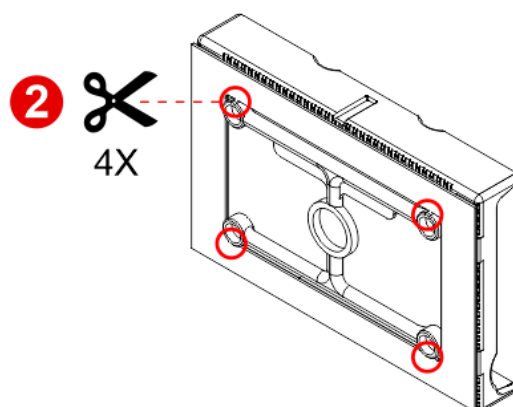
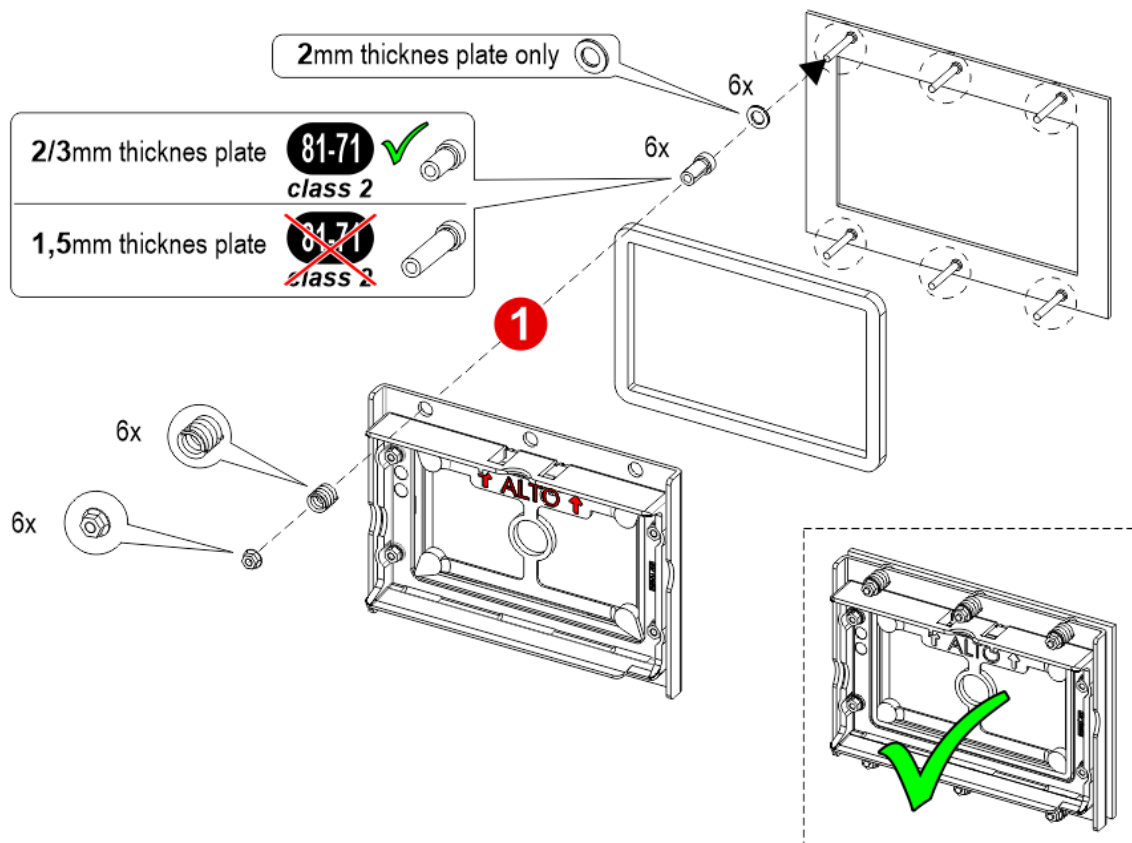


If you are replacing an existing position indicator, please verify that studs' length is $\leq 8\text{ mm}$; if not, shorten them.

– Raffaello 4.3" (EN81-71)

With welded pins on 2/3 mm pushbutton panel

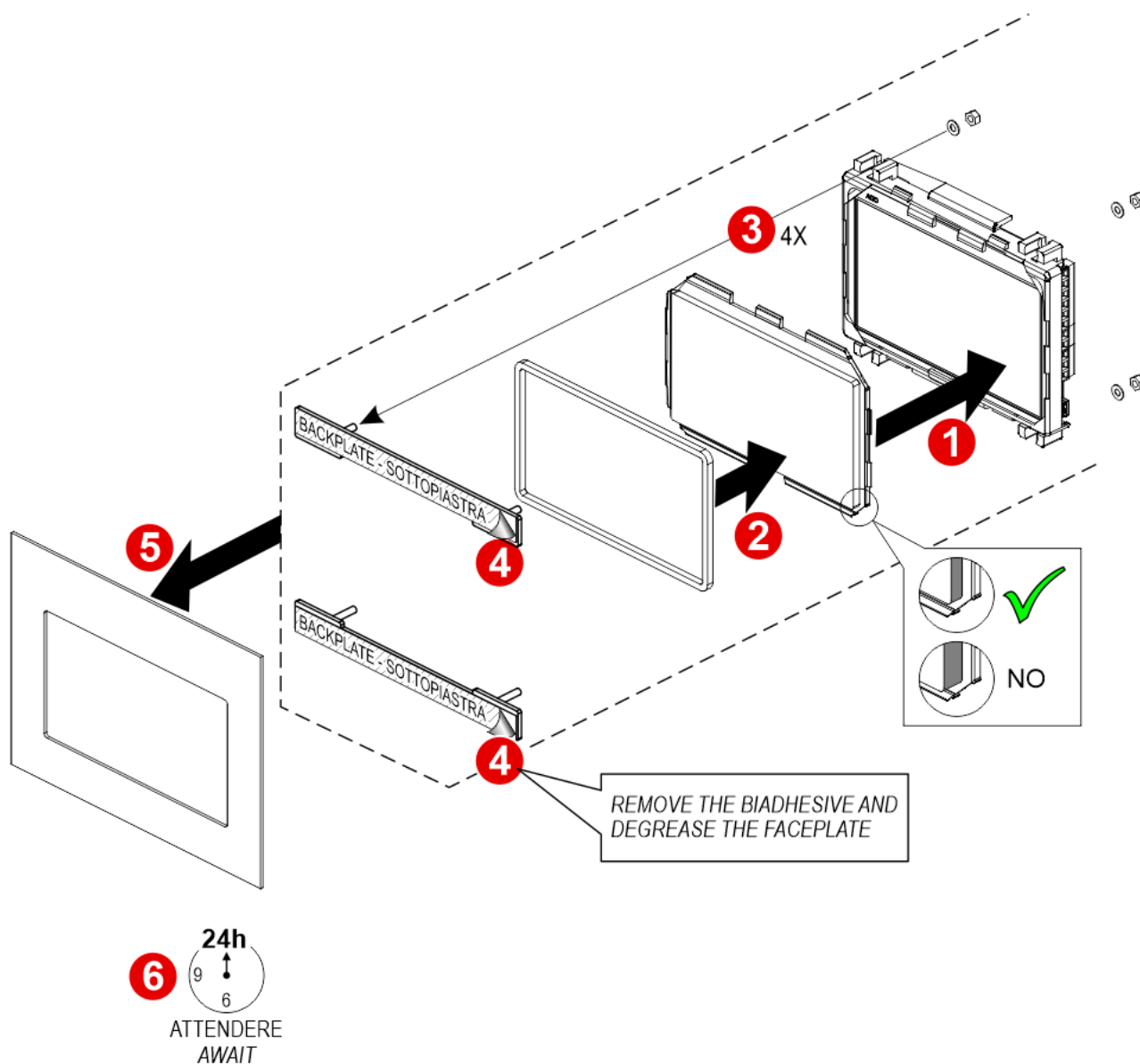
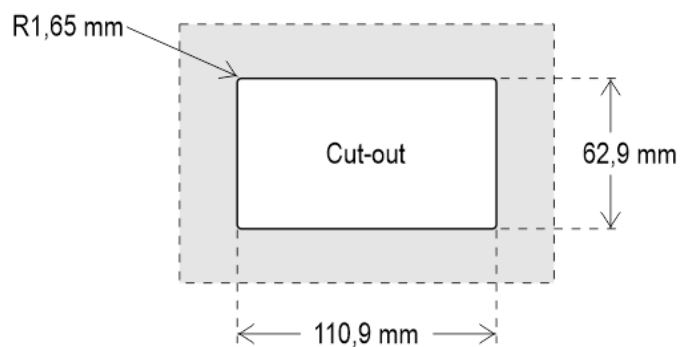




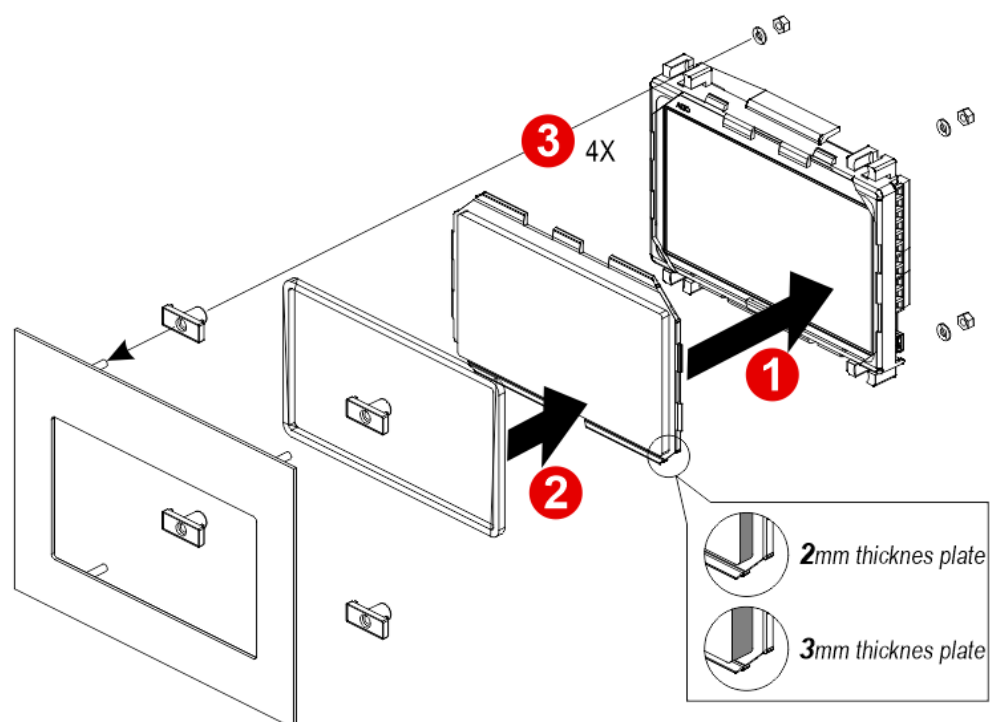
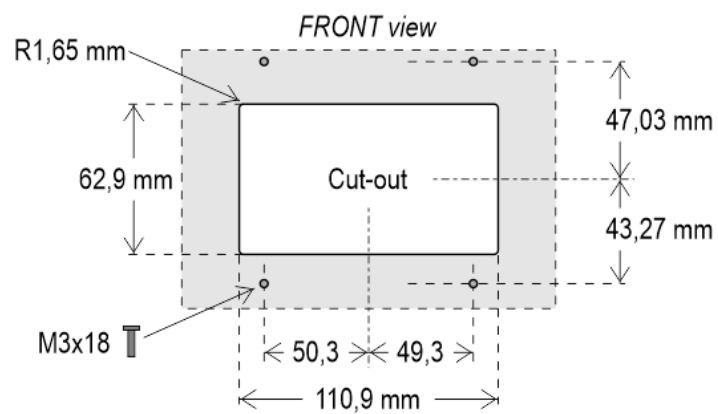
If you are replacing an existing position indicator, please verify that studs' length is $\leq 8\text{ mm}$; if not, shorten them.

— Raffaello 5"

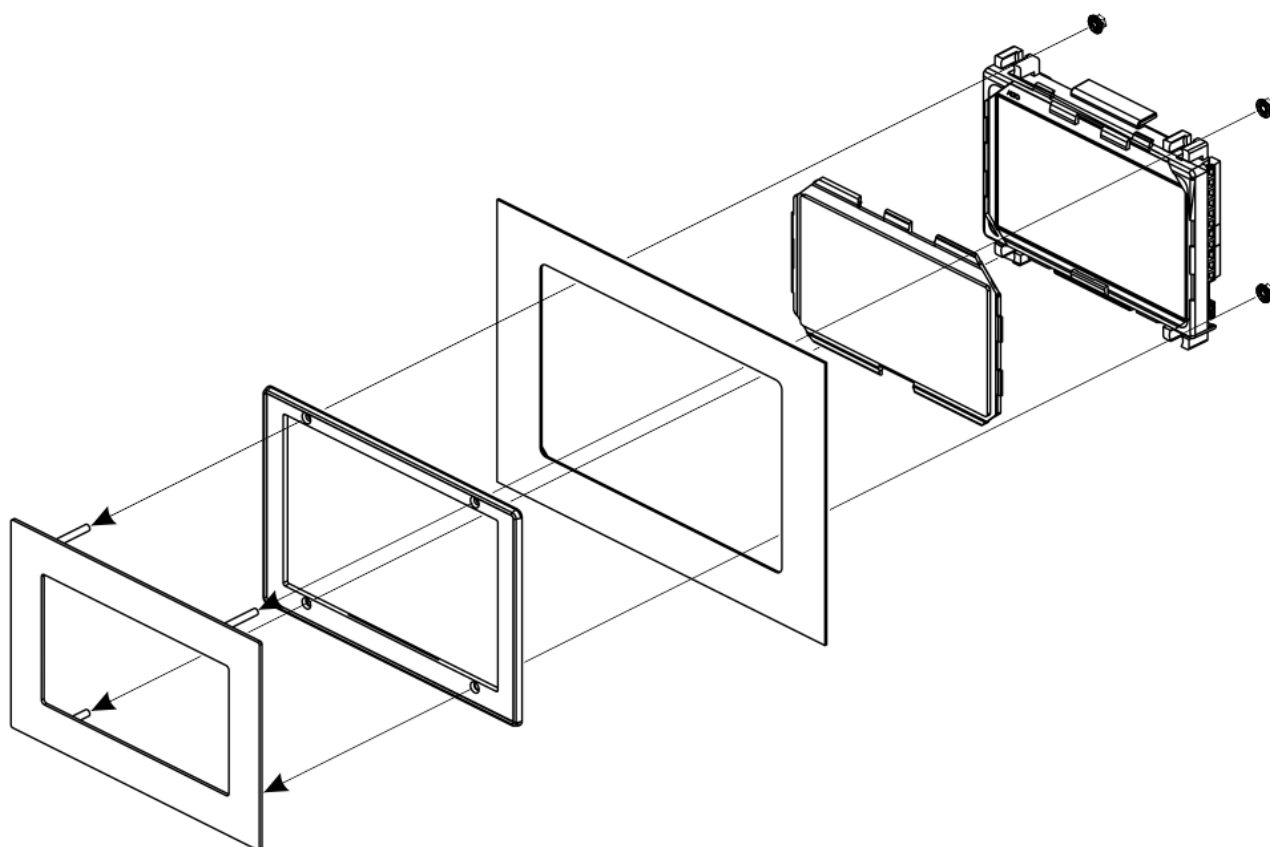
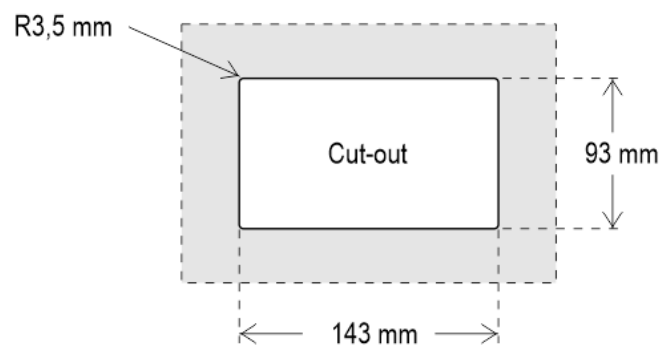
With welded pins on backplate (for 1/1,5 mm pushbutton panel)



With welded pins on 2/3 mm pushbutton panel



Frontal mounted on 1/2 mm pushbutton panel

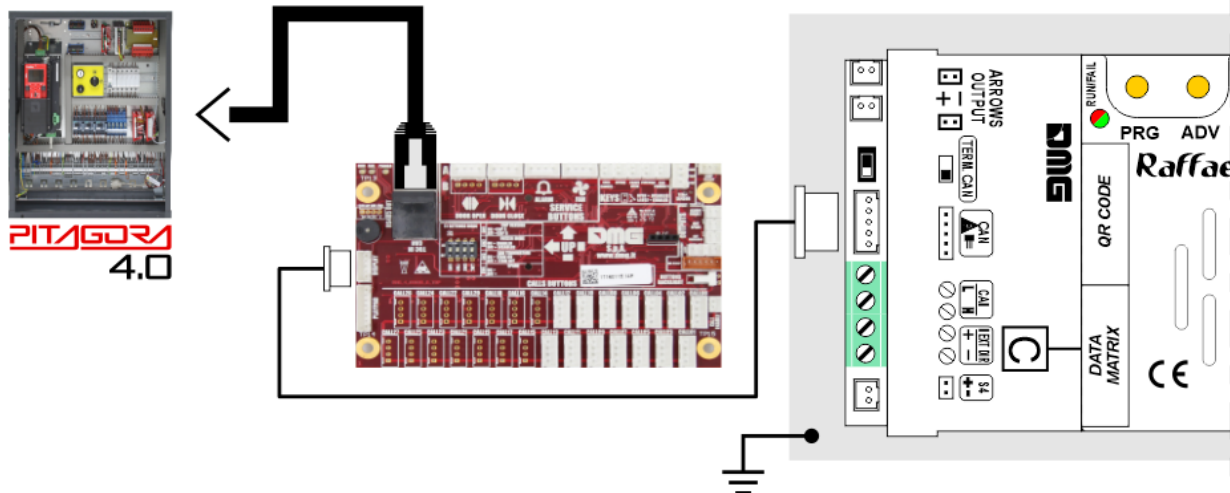


Wiring Instructions

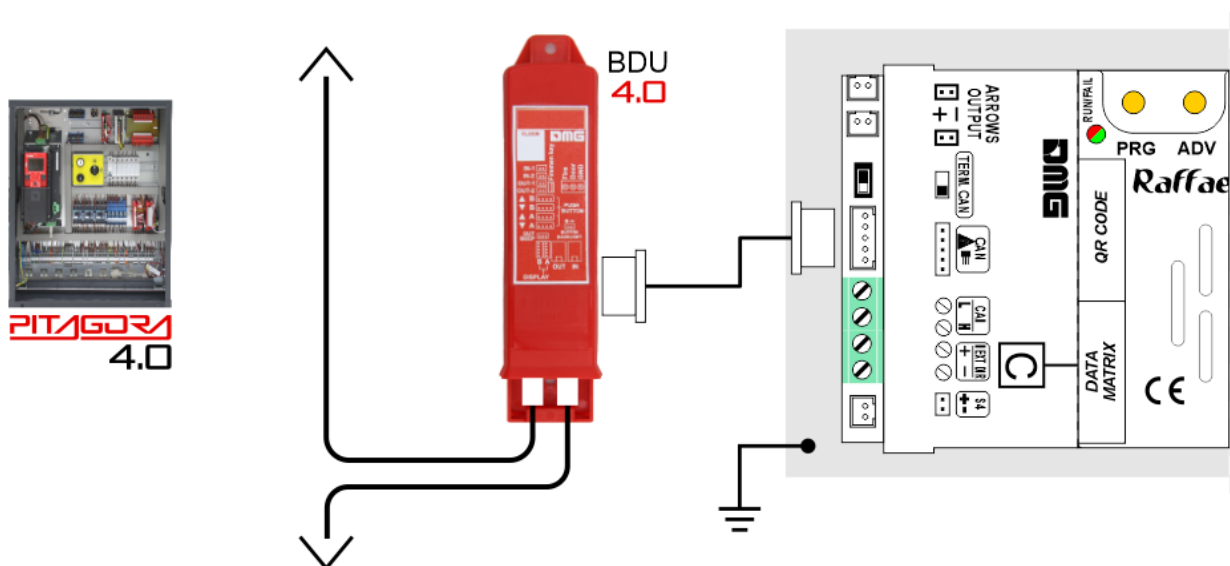
Wiring of position and direction inputs

— Pitagora 4.0

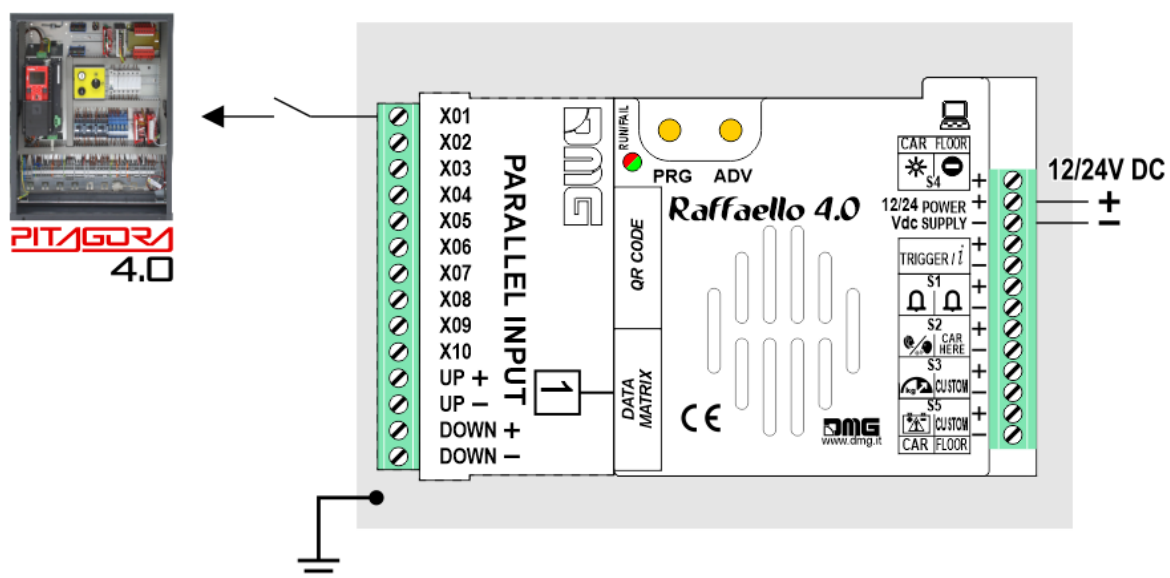
DMG CAN serial protocol
CAR



FLOOR

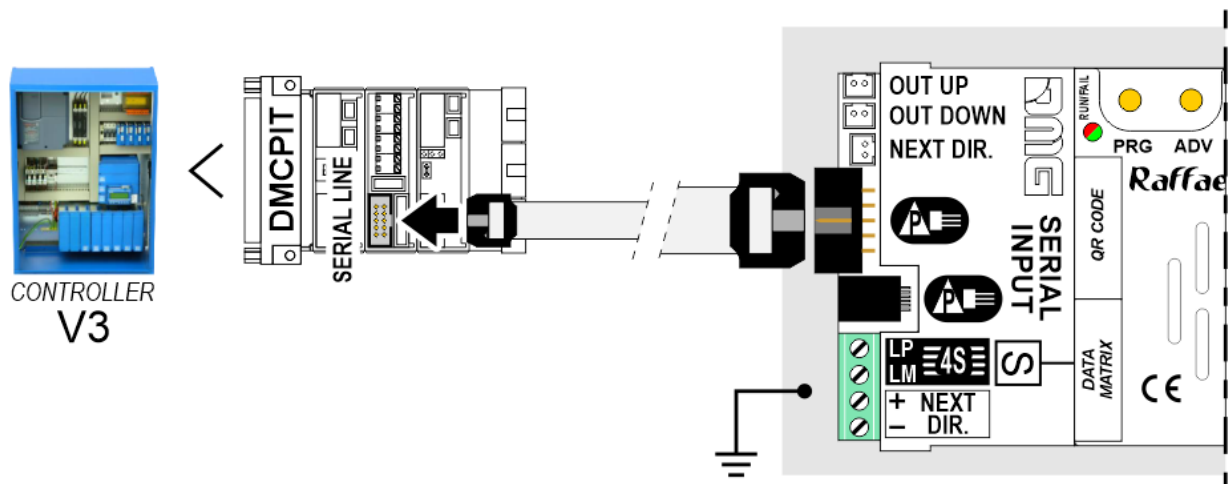


DMG
3-wires serial

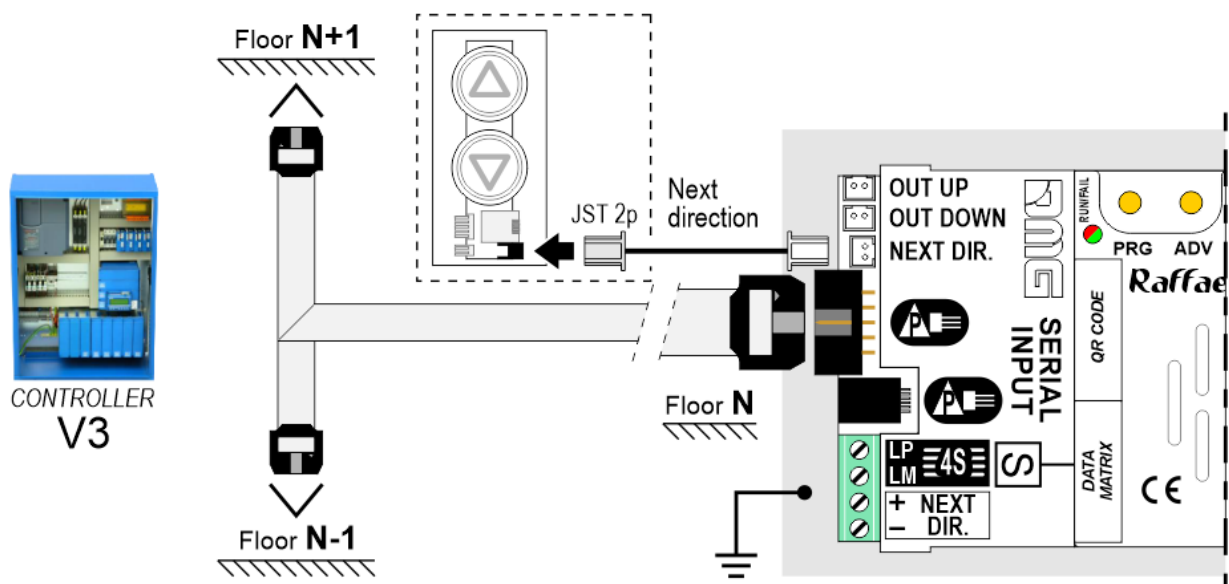


Pitagora V3

CAR



FLOOR

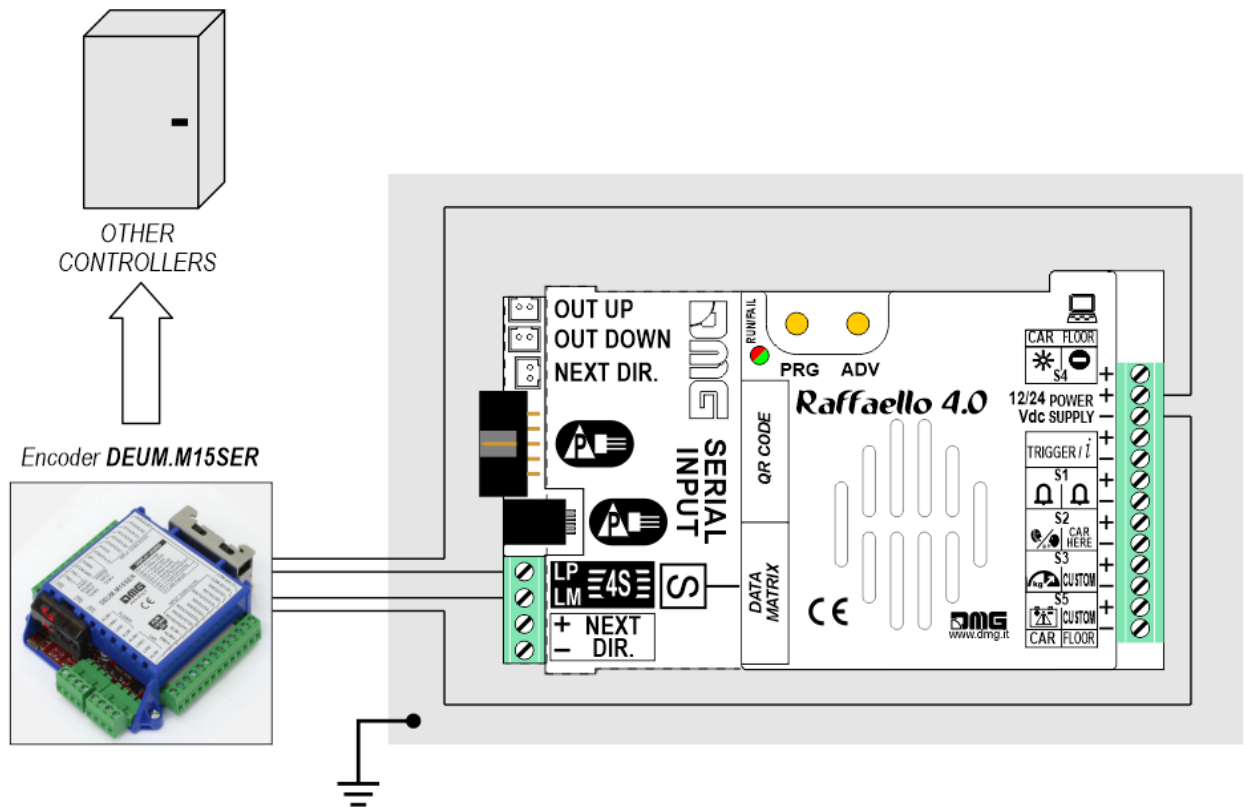


Encoder DEUM

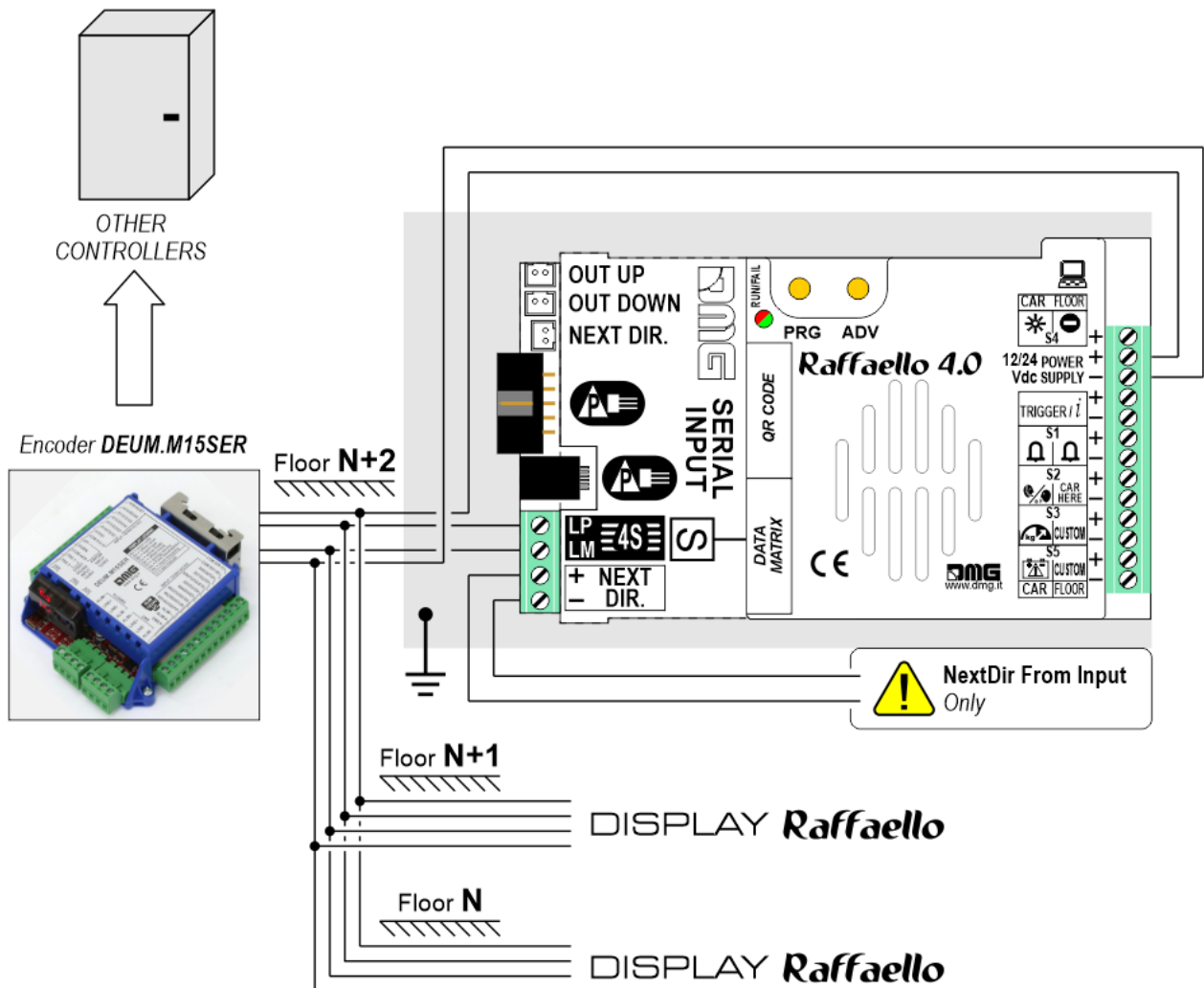


For more details please refer to the [Encoder DEUM](#) support page

DMG CAN serial protocol



FLOOR



Autonomous Positioning System

The Autonomous Positioning System for the DMG displays of the Raffaello, Giotto and Matisse series, allows to show the lift position and direction independently from the controller. The interface uses the sensors signals installed on the top of car.



If available, it is possible to use the same position sensors used by the controller.

If NOT available, you have to install:

- 1 NO magnetic sensor on the cabin + 1 magnet at every floors for counting position.
- 1 NO magnetic sensor on the cabin + 1 magnet at main floor for the RESET.

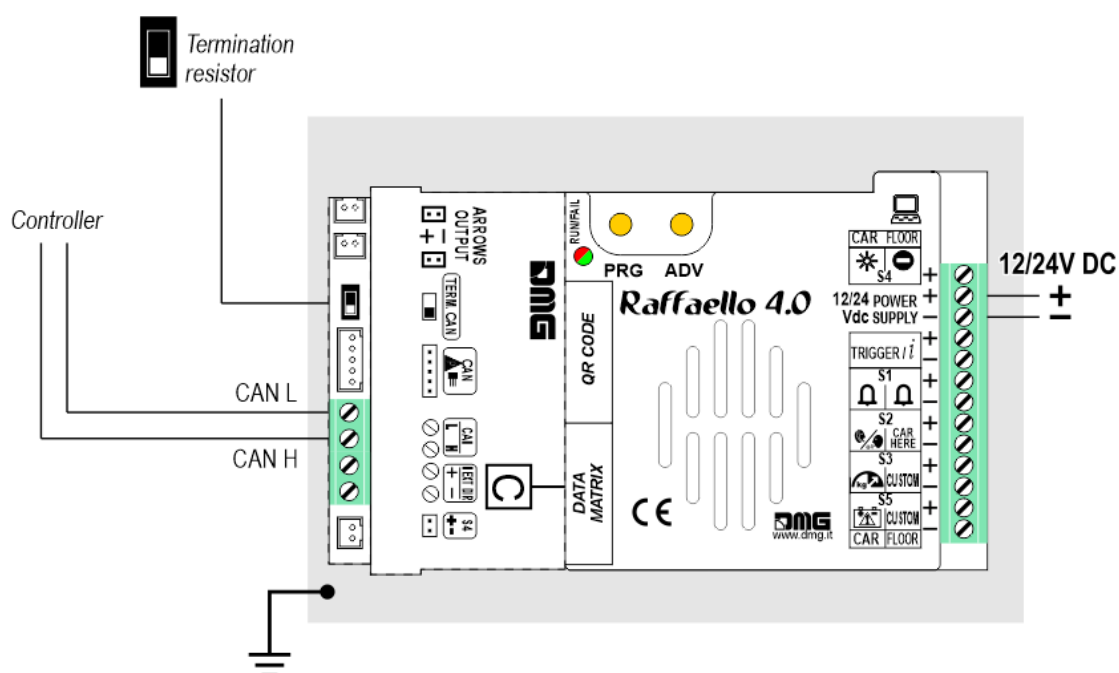
In this interface there is a CAN BUS serial line for piloting the position indicators of floor.

For all other functions (Voice Synthesizer, gong, indicators, etc.) please refer to the display technical support page.

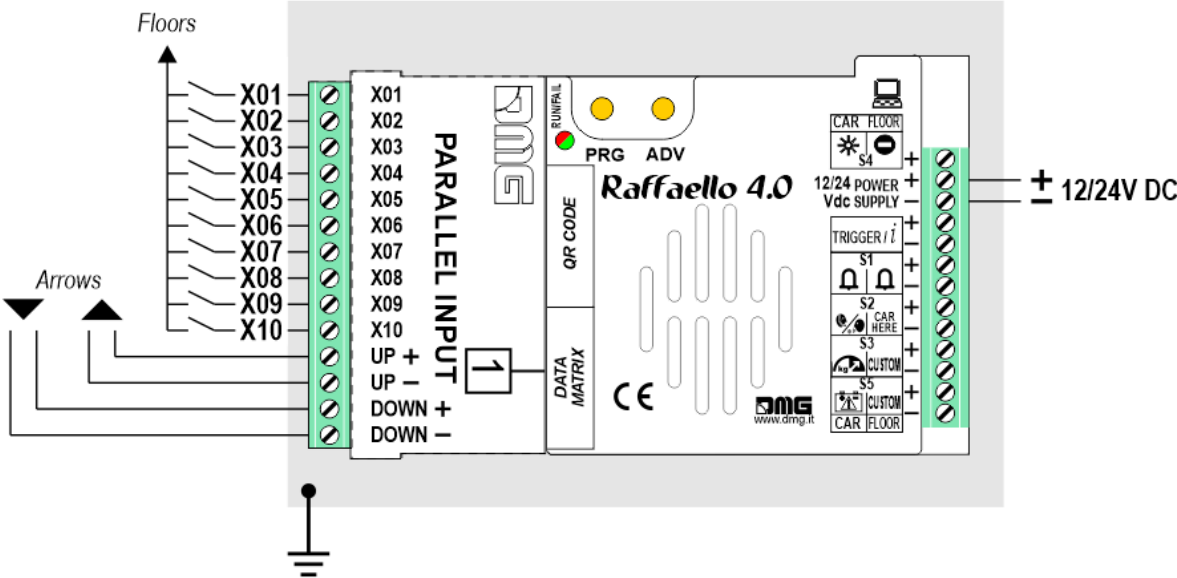
Autonomous positioning System

Other Controllers

Proprietary CAN protocol

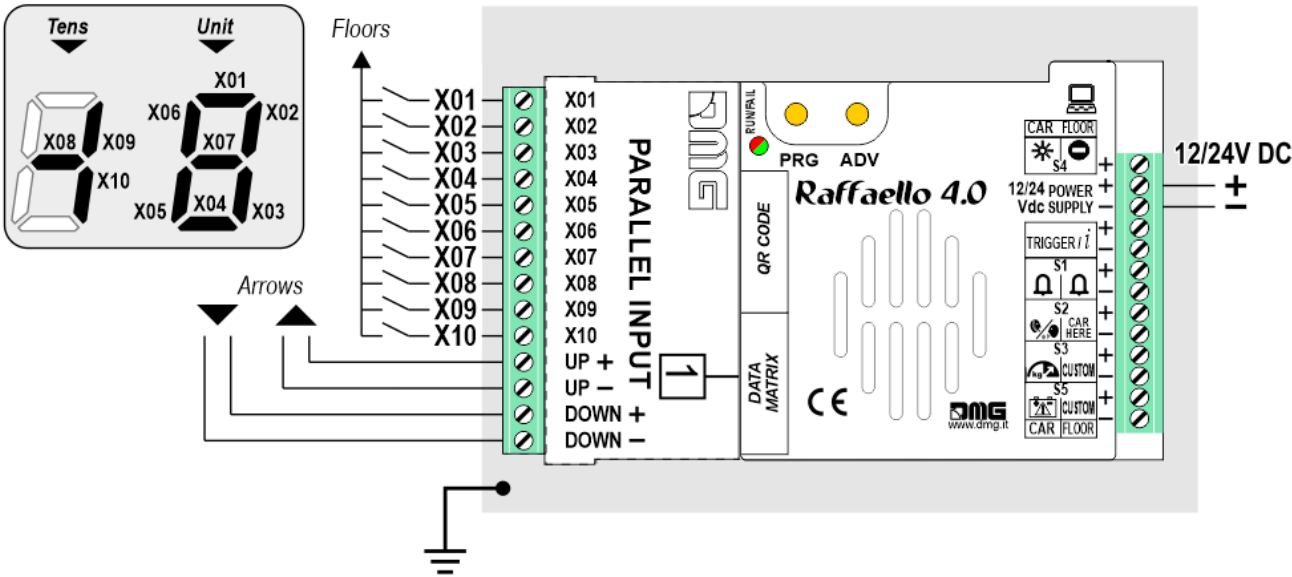


1 Wire / Floor



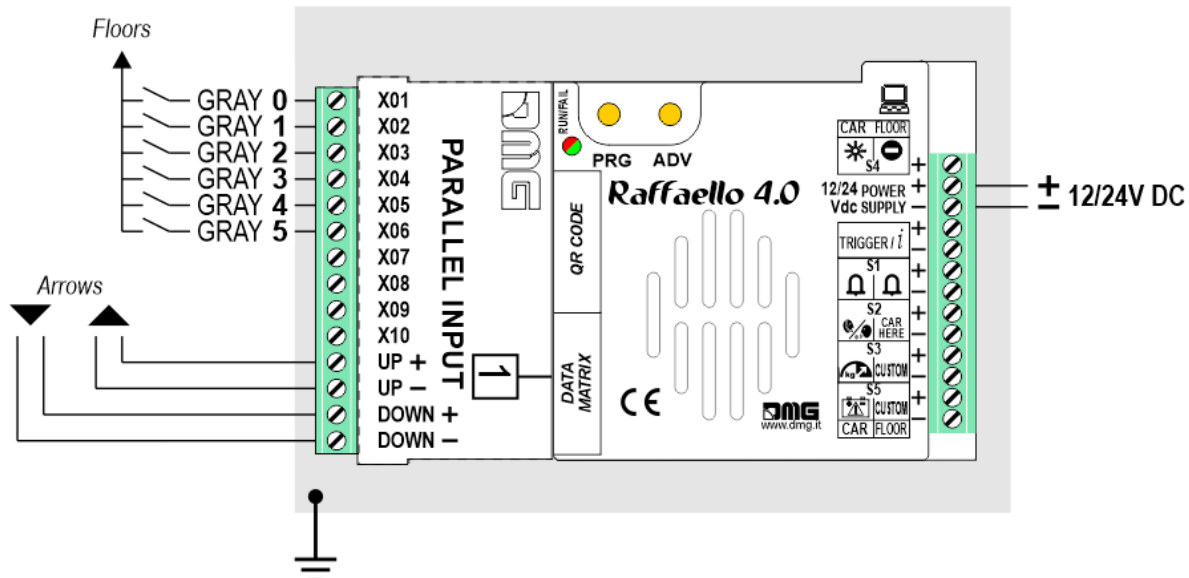
10 floors max.

1 Wire / Segment



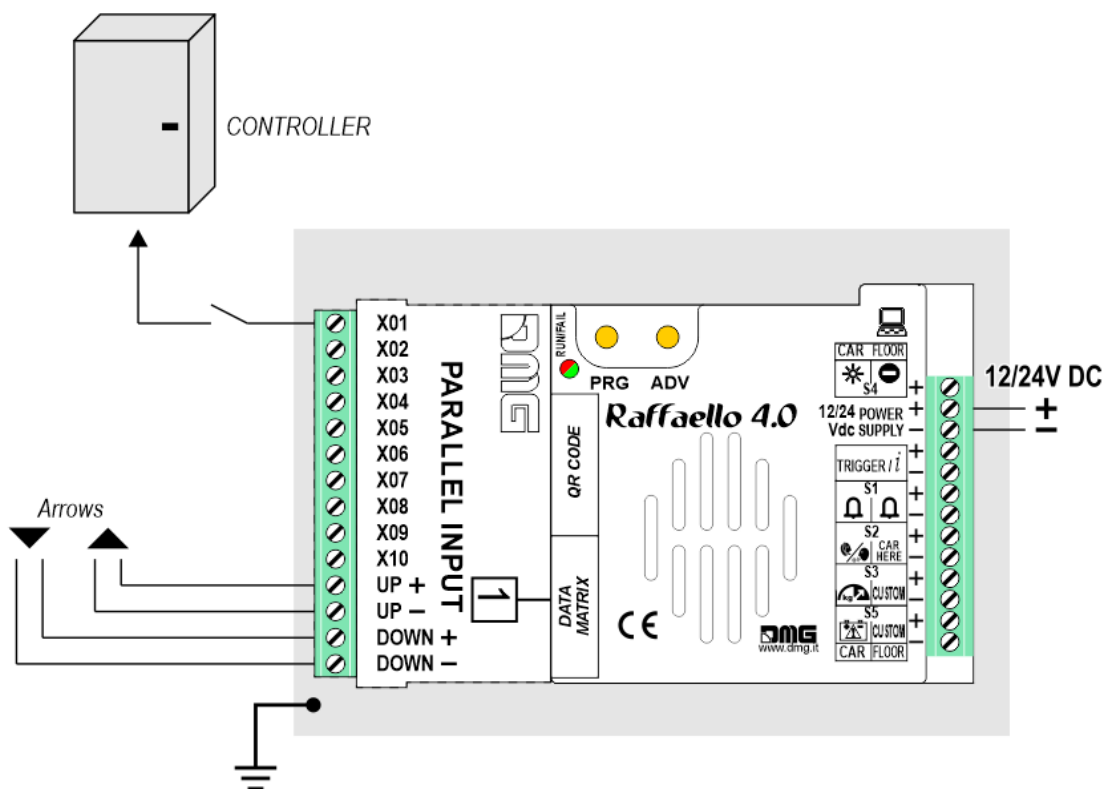
29 floors max. (-9, 0, 19)

Gray / Binary



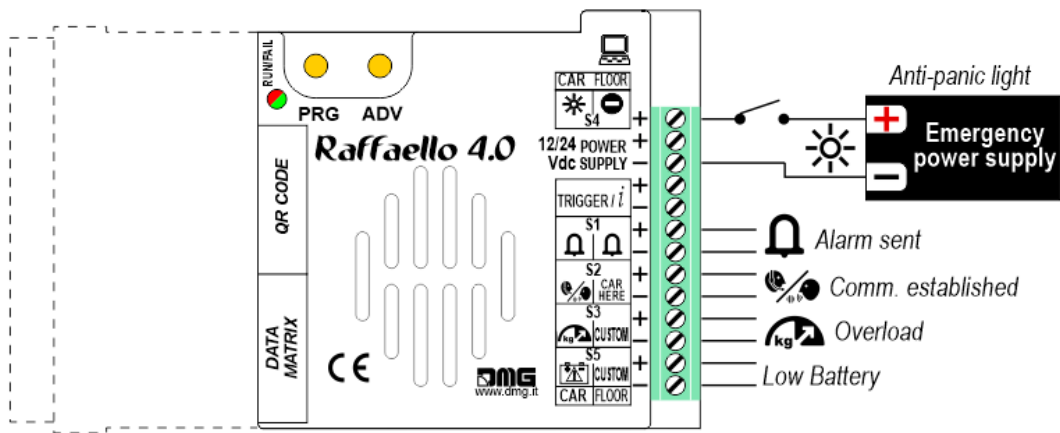
72 floors max. (-9, 0, 62)

TKE/MEA/Autinor

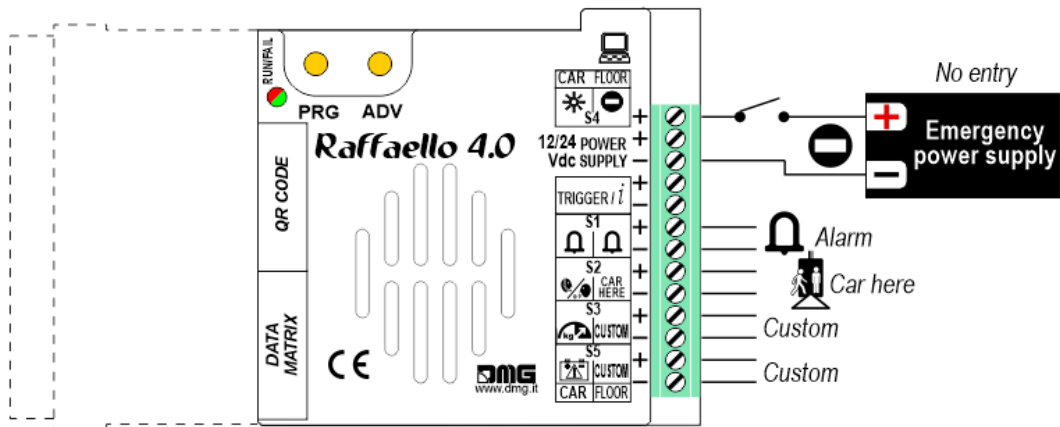


SERVICE MESSAGE Wiring

CAR



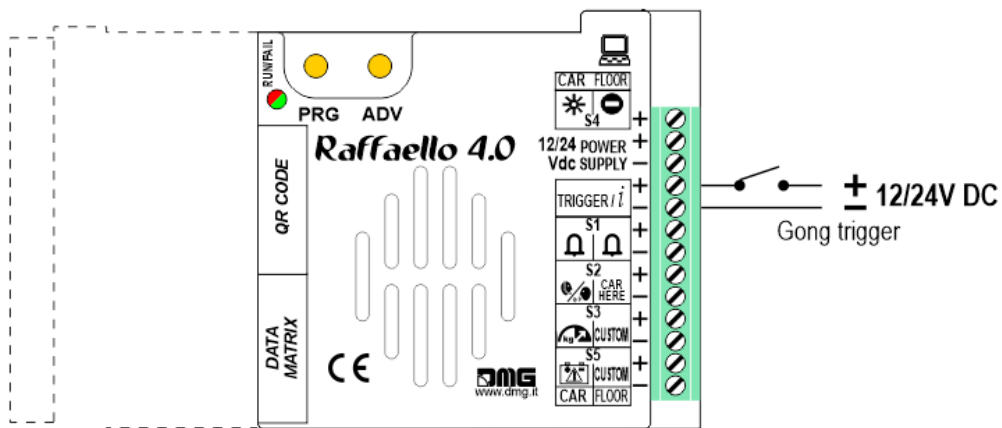
FLOOR



Service messages can also be piloted, through serial bus, by the DMG controller or **DEUM.M15 encoder**.

TRIGGER Wiring

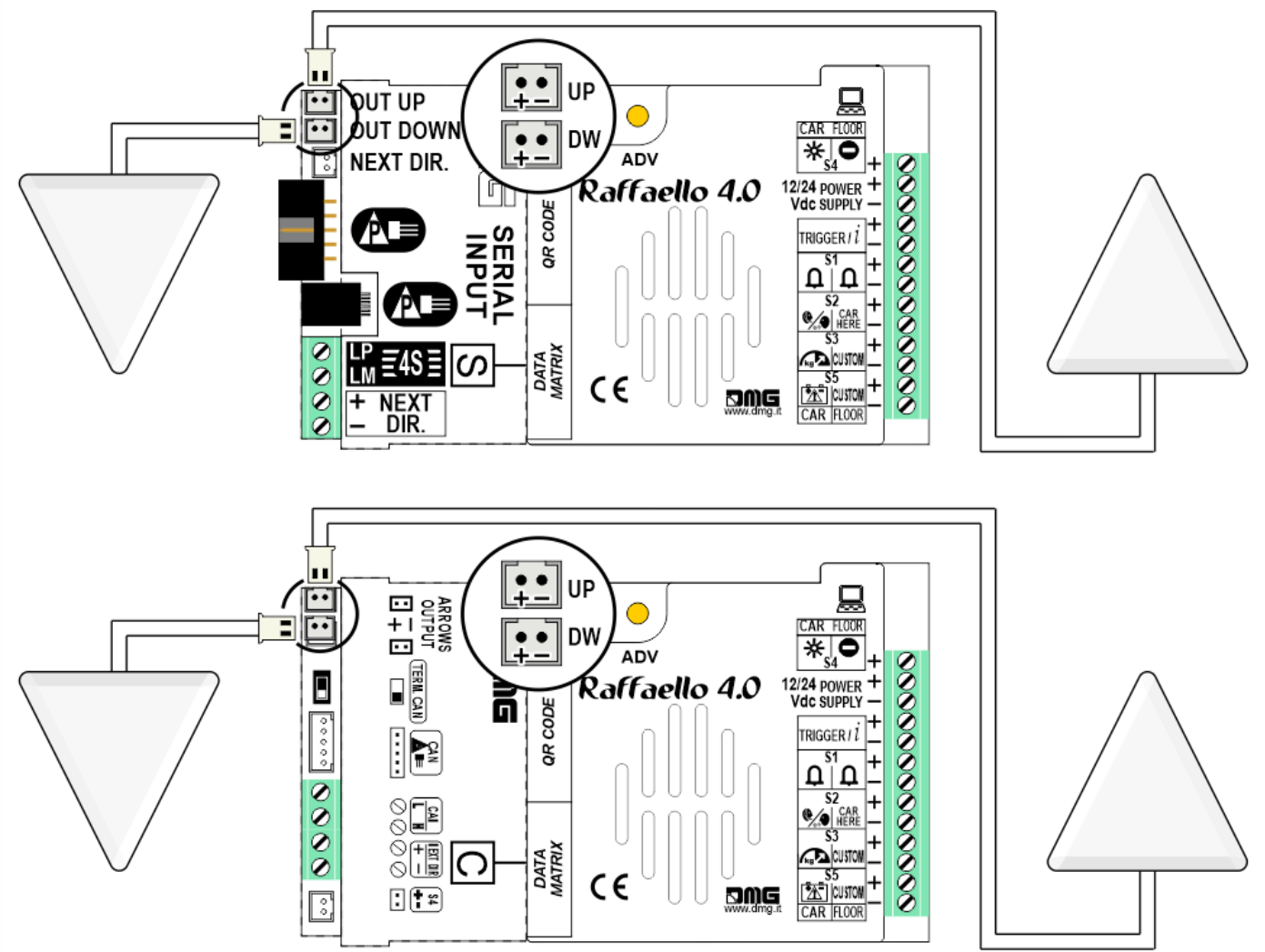
This input triggers the gong.





If piloting is driven by DEUM ENCODER, a direct connection between the TRIGGER command and the Encoder is suggested.

External Arrows Wiring



✓ MENU > Options > Graphic Options > Arrows > Hide

Settings

 ADV Setup Key	 ADV Exit / Back	 PRG Access Menu Key	 PRG Value setting (>3 sec.)
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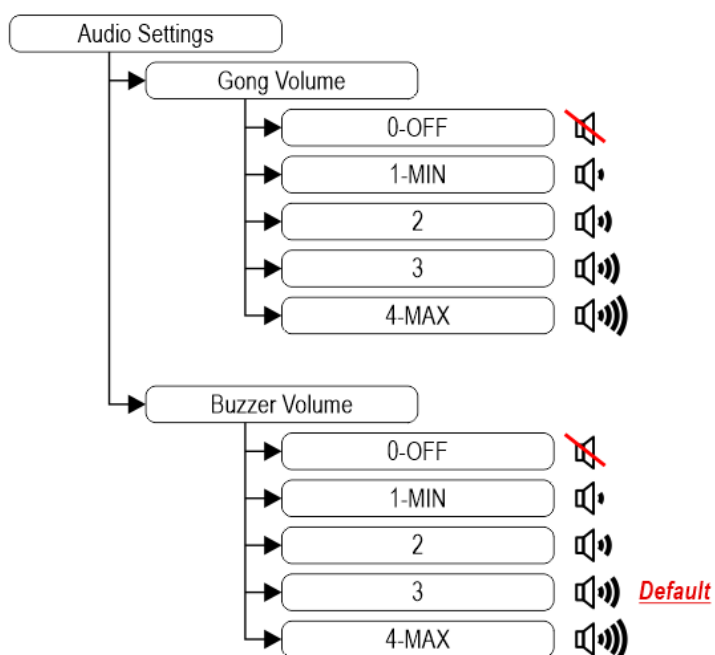


The display navigation menu is in English only; to see the correct menu items we recommend setting the DIDO website language to English.

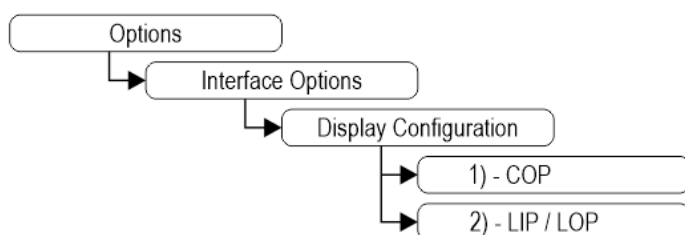
MENU	MENU ITEM		AVAILABLE CHOICES	INPUTS		
				Serial / Pitagora	Parallel	CANBUS
Input			Serial / 1 wire per floor / segment Gray / Binary / Pos.Sensor TKE / MEA / Autinor / CAN DMG	•	•	•
Audio Settings	Gong Volume		0-OFF / 1-MIN / 2 / 3 / 4-MAX	•	•	•
	Buzzer Volume		0-OFF / 1-MIN / 2 / 3 / 4-MAX	•	•	•
Options	Interface Options	Display Configuration	COP / LOP / LIP	•	•	•
		Arrow Configuration	Direction / Next Dir.	•		
		Car at Floor	No / Yes	•		
		Gong with NO Arrows	No / Yes	•		
		CAN Baudrate	250k, 125k, 10k, Auto			•
		Convert Mezzanine	No / Yes	•		
		Offset Value	-9 / ... / 0 / ... / +9		•	
		First Visualization	Blank / Zero		•	
		Common Selection	Negative / Positive		•	
		Arrow Type	Fixed arrows / Scrolling arrows		•	
		Enable AUX Signals	10 + 0 / 6 + 4		•	
		Input Filtering	0 ... 20		•	
		Gong from Arrows	No / Yes		•	
		Screensaver timer	Disabled / 10-20 / 30-60 / 60-120	•	•	•
	Graphic Options	Font	Dado / Classic Bold / Lagoon / Dot Matrix	•	•	•
		Flat Style	Symbol color	•	•	•
			Background color	•	•	•
			Specials	•	•	•
		Gradient Style	Style	•	•	•
			Color	•	•	•
		Floor Symbols		•	•	•

MENU	MENU ITEM	AVAILABLE CHOICES	INPUTS		
	Arrows	Show / Hide	•	•	•
	Fixed Symbols Positions	No / Yes	•	•	•
	Filter Blinking Signals	No / Yes	•	•	•
	Message Mode Orientation	Alternating / Fixed	•	•	•
	Orientation	Landscape (Horiz.) / Portrait (Vert.) / Rev.Landscape / Rev.Portrait	•	•	•
	S1-S5 inputs Configurations	Input S1 / ... / S5	•	•	•
	AUX Signals Configurations	AUX Signal 1 / 2 / 3 / 4	•	•	•

Adjusting audio level



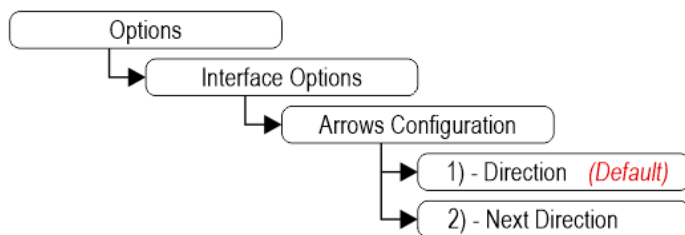
Set up Raffaello as elevator car indicator or floor indicator



1) – Elevator car Position Indicator (default)

2) – Floor Position Indicator

➤ Arrow setting up

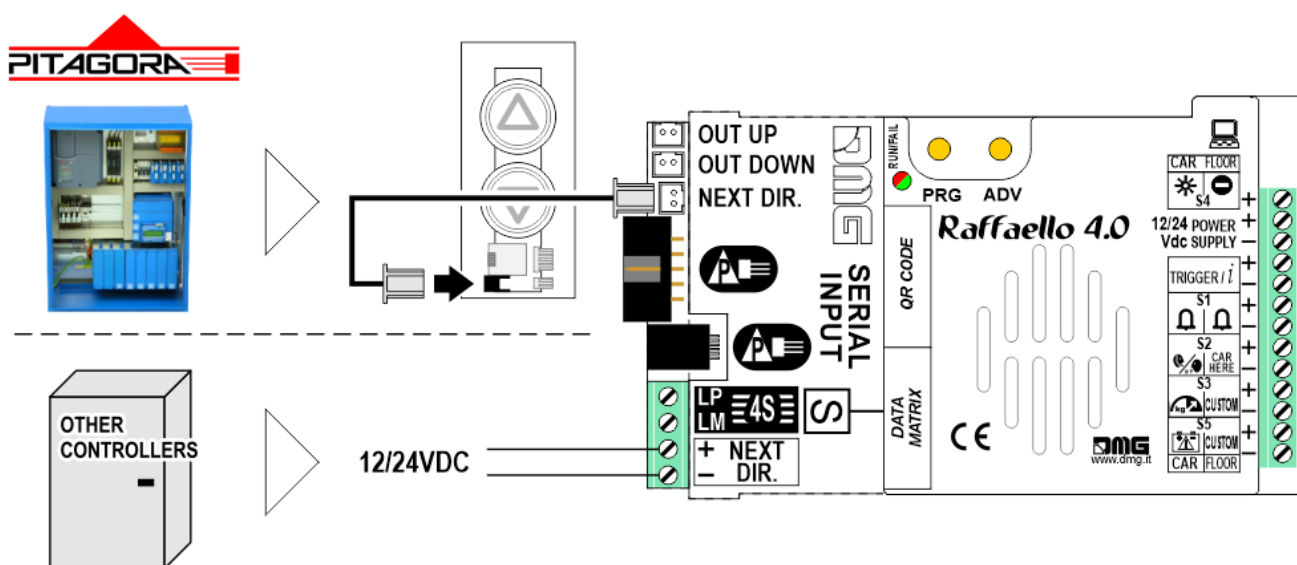


1) – Direction arrows (default)

2) – Next direction arrows (instructions below)

Next Direction Arrows enabled from input

Gong and arrows light up only on the position indicators with the “NEXT DIRECTION” input powered.



If the **DEUM Encoder** is used, please refer to the relevant manual

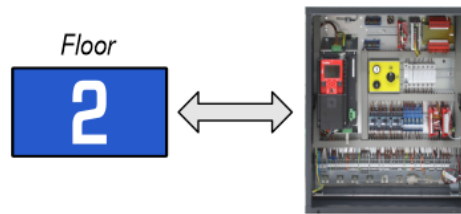
Next Direction Arrows locally programmed

Through the addressing procedure one can permanently assign to each indicator the information of the floor on which it is mounted; in this way, next direction arrows only light up at the floor where the elevator car is positioned.

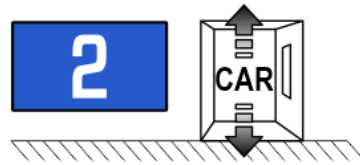
– Addressing procedure

- 1) – Connect all position indicators to the **ENCODER** or **PLAYBOARD** controller.
- 2) – Position elevator car on the floor of the Display which needs to be directed.
- 3) – Verify that the characters/numbers/letters visualized are the desired ones.
- 4) – Put a magnet in front of the indicator and wait for it to blink for 3 seconds for confirmation.
- 5) – Repeat procedure for each floor.

1



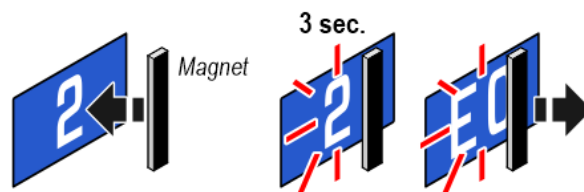
2



3

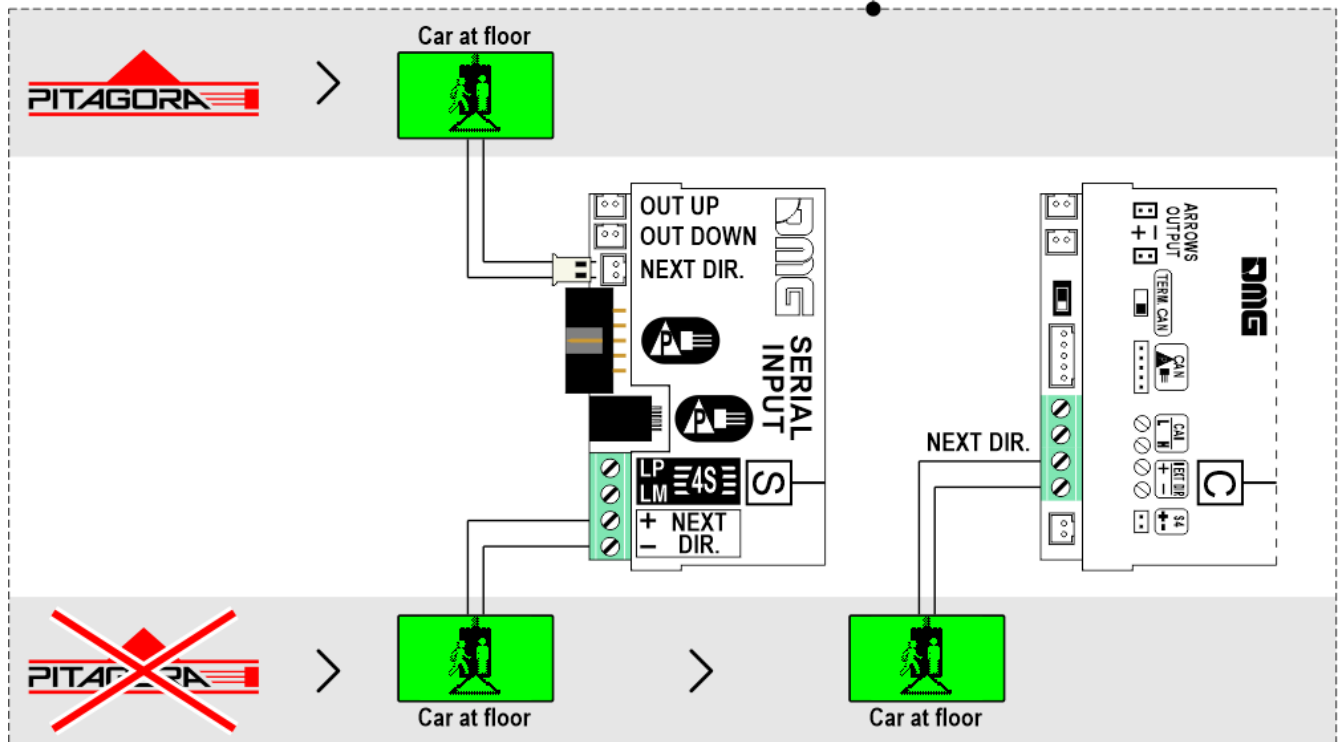
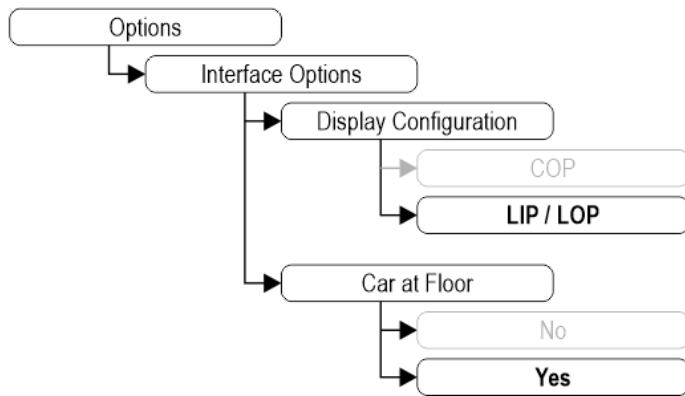


4

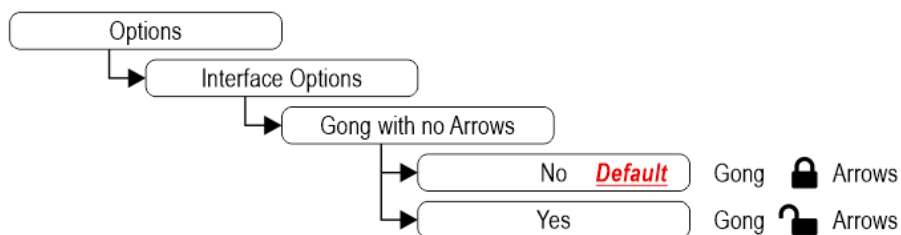


If the **DEUM Encoder** is used, please refer to the relevant manual

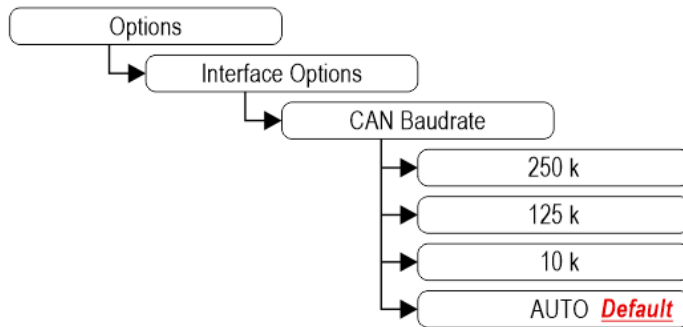
⊖ Enable “Car at Floor” signal from “NEXT DIR.” input



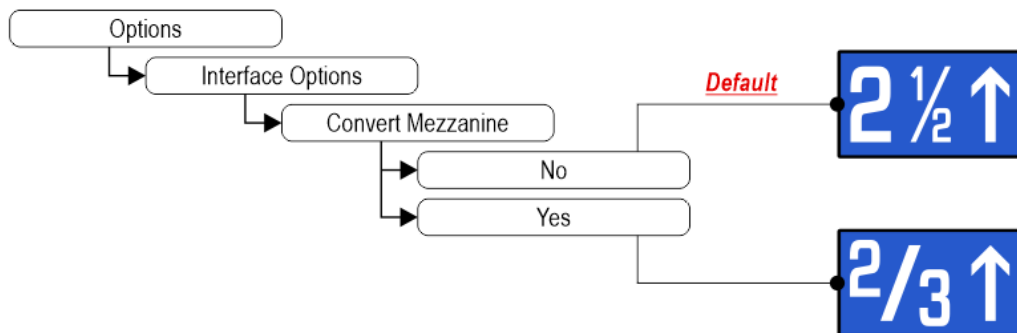
Set up the gong to be independent from arrows



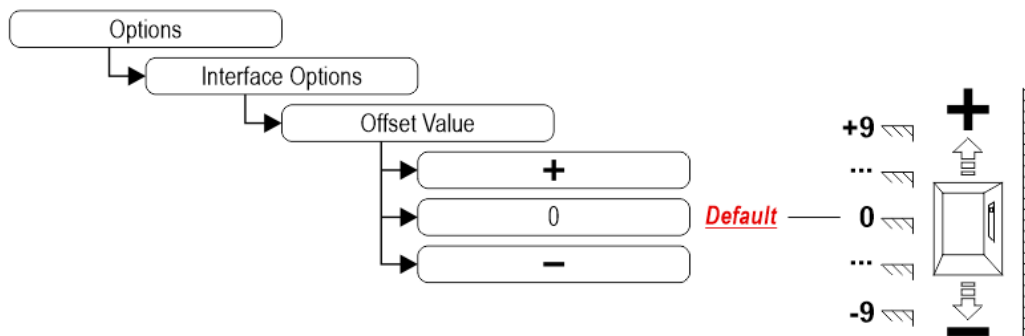
Set up CAN BUS protocol transmission speed



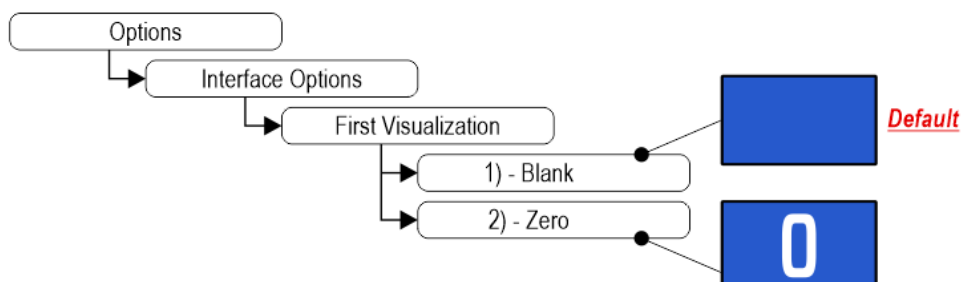
Intermediate floors visualization



Set up floors OFFSET

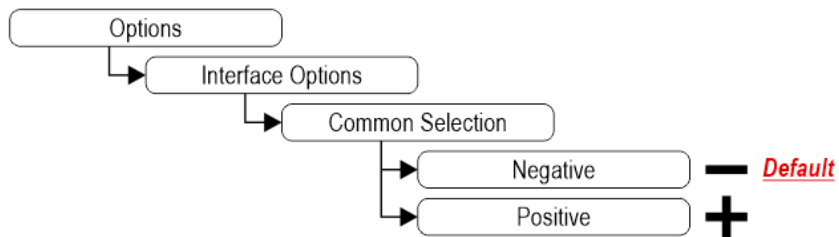


Set up first visualization

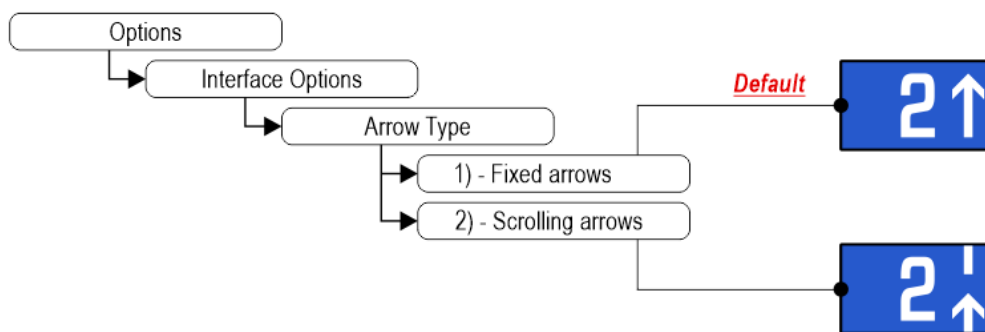


- 1) – It does not display any numbers
 2) – Lowest floor

– Set up Parallel position common input

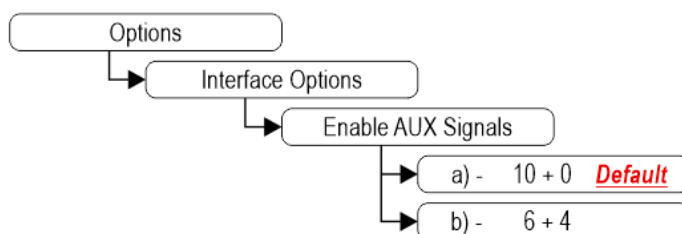


– Set up scrolling arrows



- 1) – Fixed arrows
- 2) – Scrolling arrows

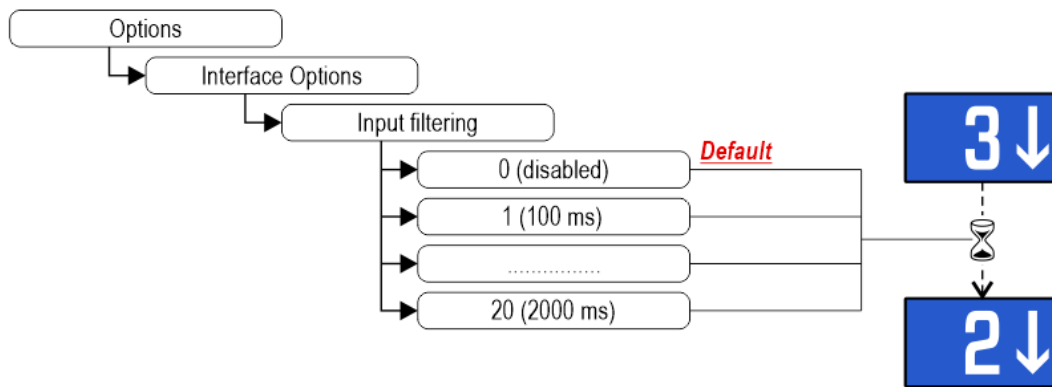
– Enable auxiliary signals



- a) – 10 Floor parallel inputs (X01÷X10) + 0 AUX Signals
- b) – 6 Floor parallel inputs (X01÷X06) + 4 AUX Signals (X07÷X10)

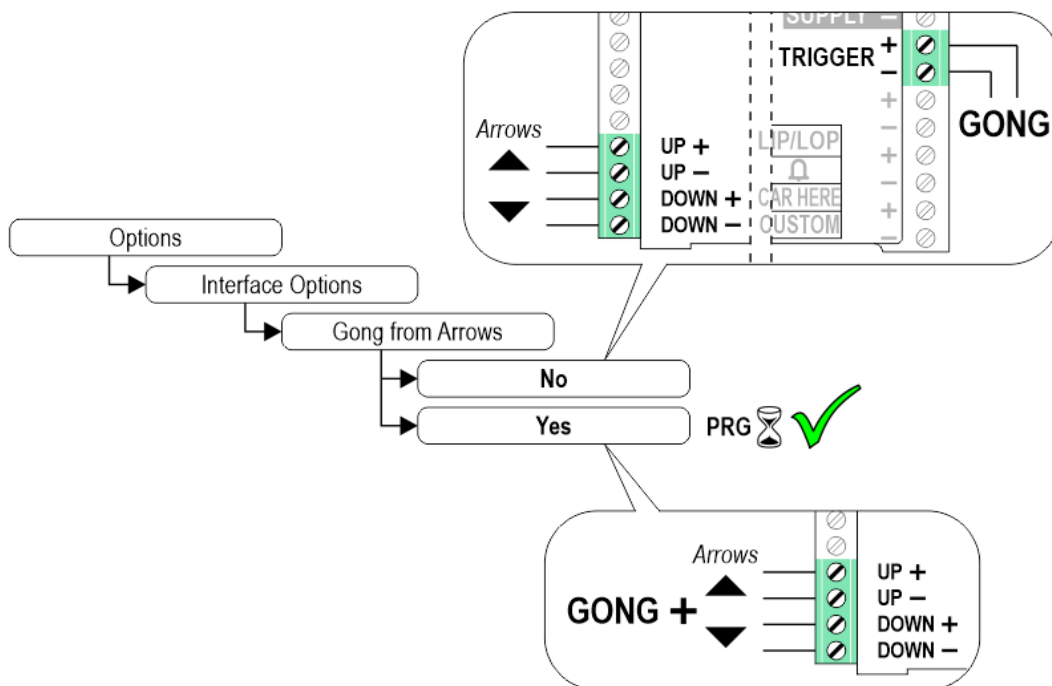
– Set up the display delay of floor change

The display delay helps avoiding visualization errors during floor change.

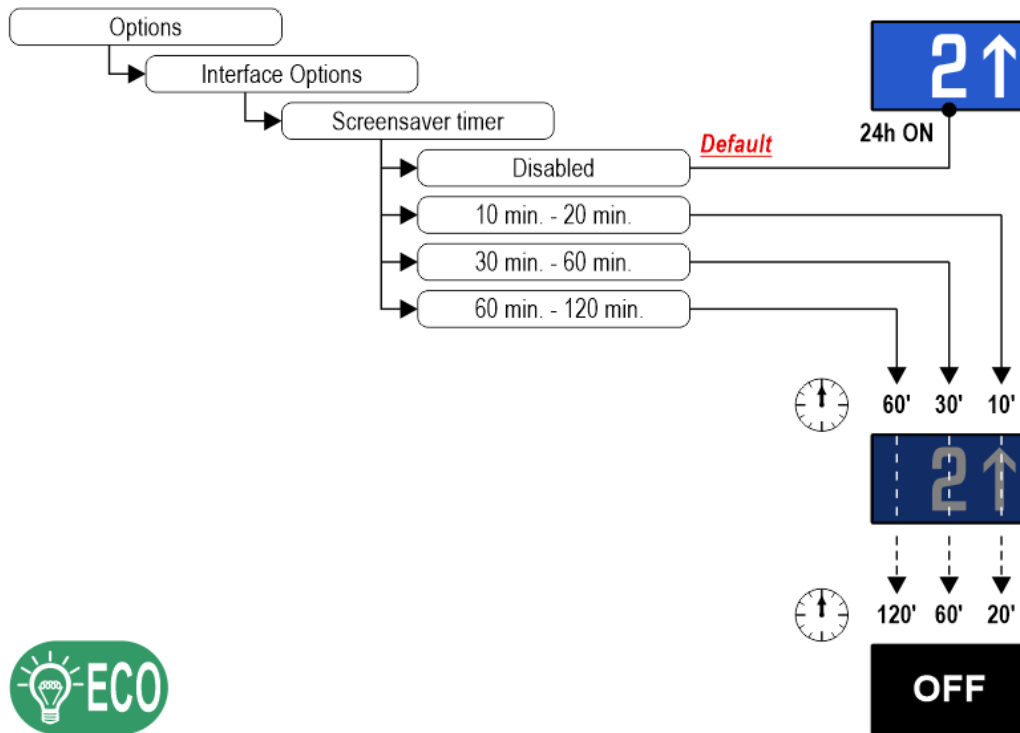


➤ Enable Gong from arrow input

The gong command is handled simultaneously with the arrows without connecting the “trigger” terminals.

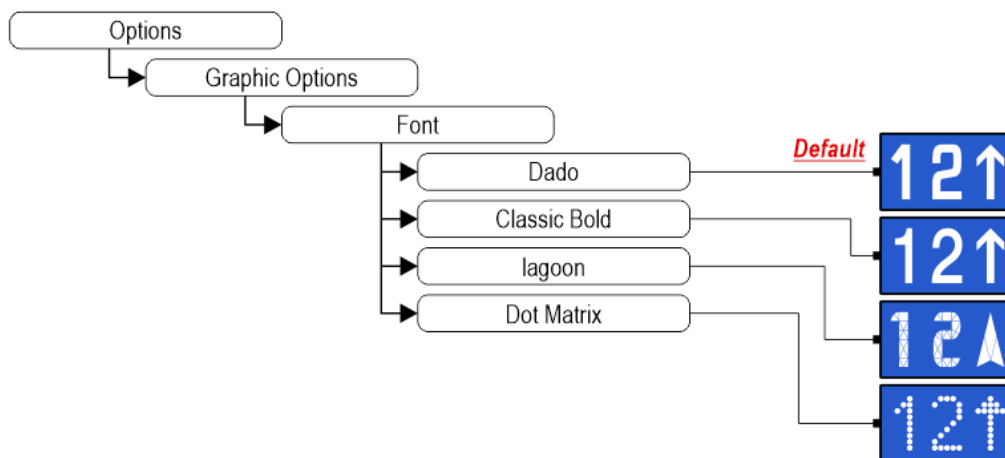


➤ Enable energy saving function

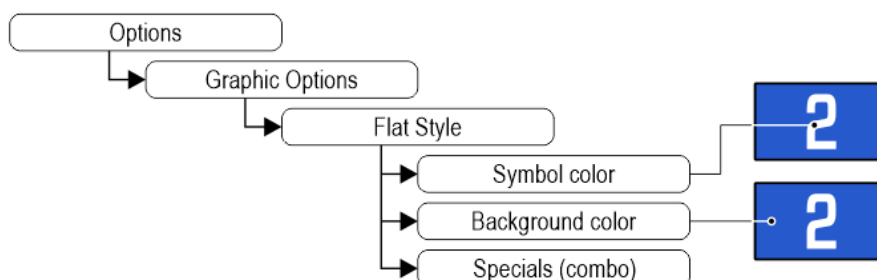


“Energy saving” mode to reduce consumption when idle.

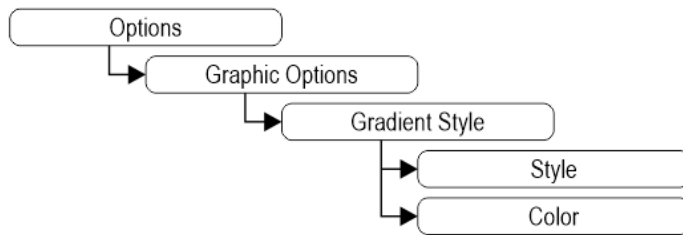
Set up Font



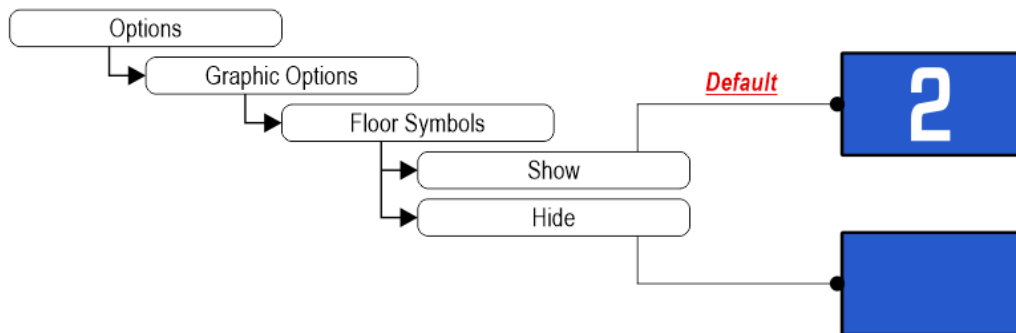
Set up flat Style Color



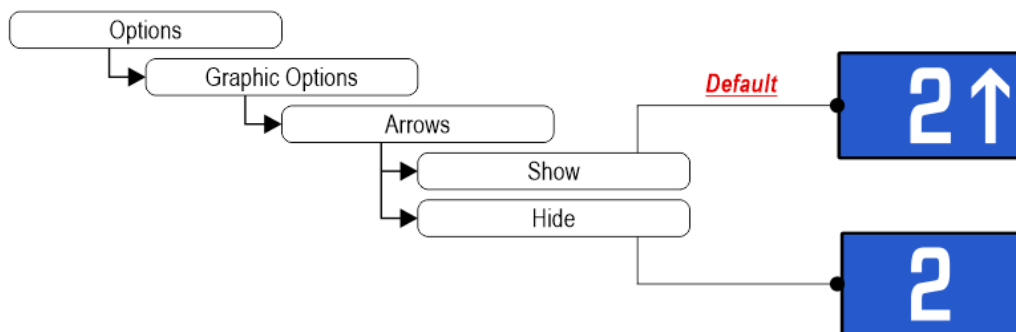
Set up gradient Style Color



Show/Hide position

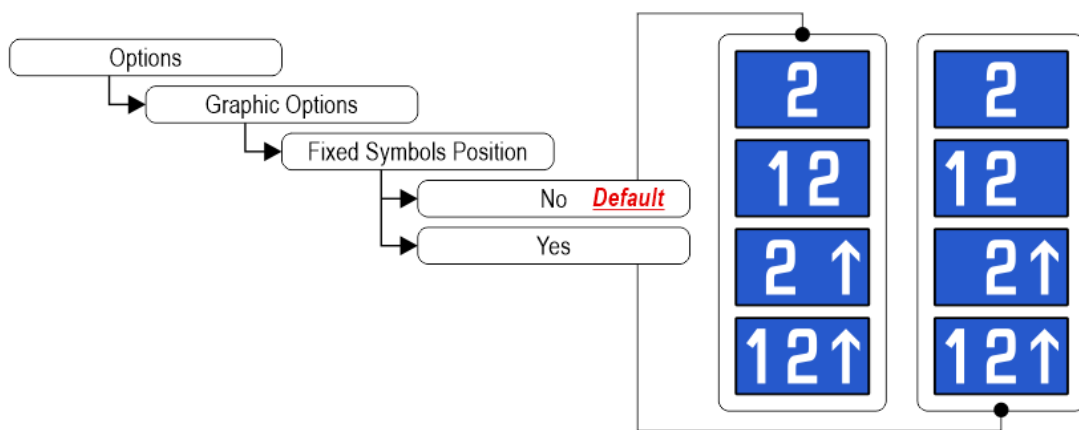


Show/Hide arrows



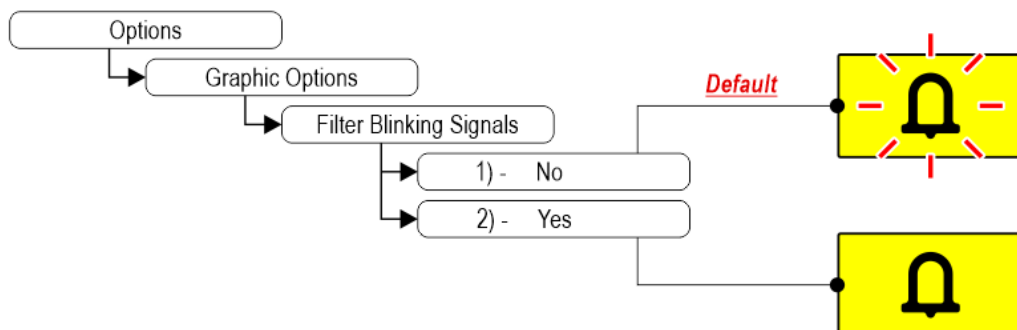
Set up Symbols position

Landscape orientation modes only.



If “Yes”, the symbols will stay in fixed positions independently of the arrow status.

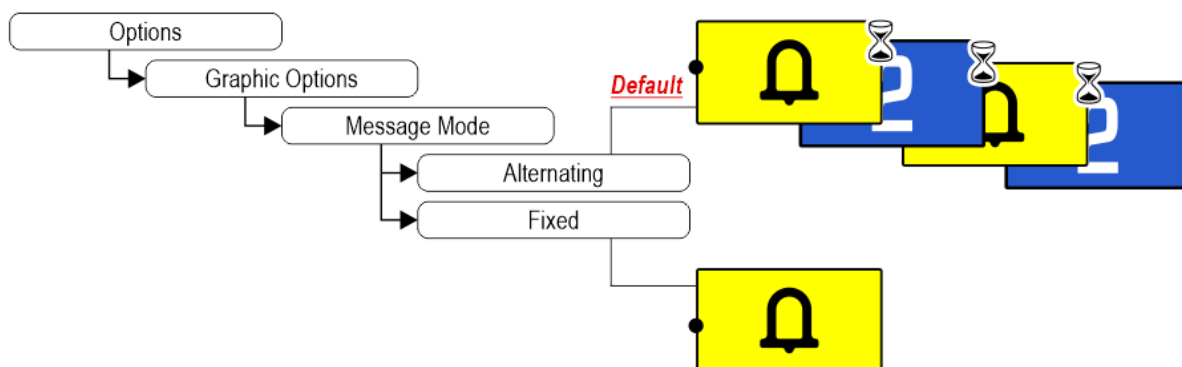
– Signalizations (visualization)



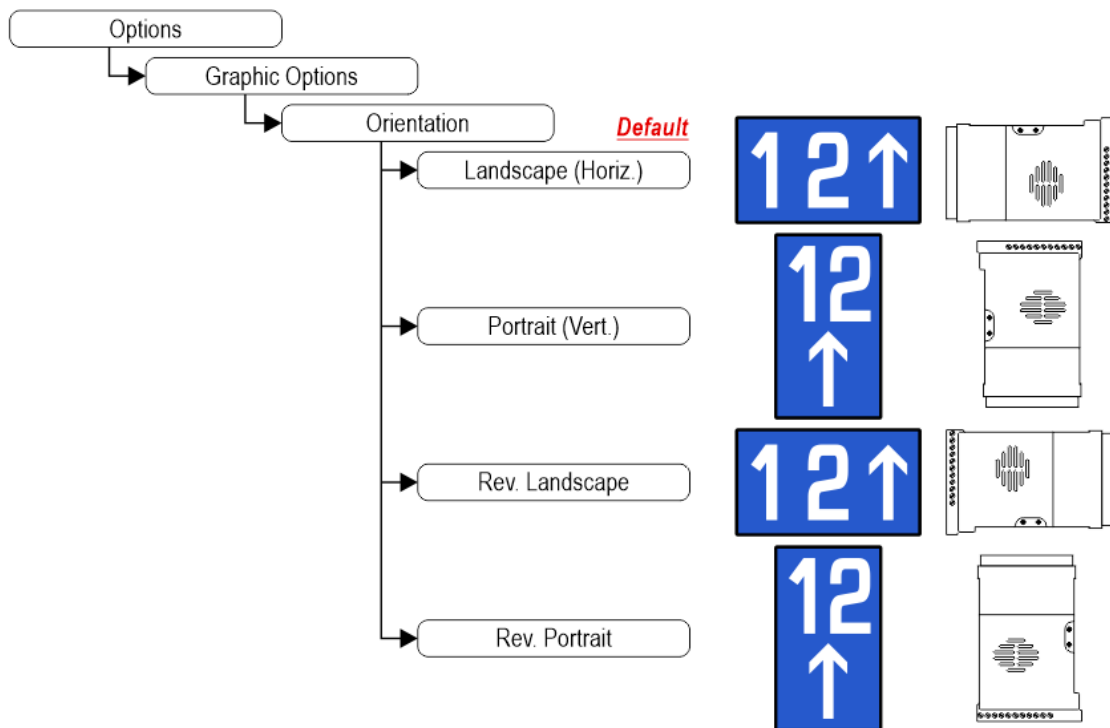
1) – Fixed or blinking signalizations (input from controller).

2) – Fixed signalizations.

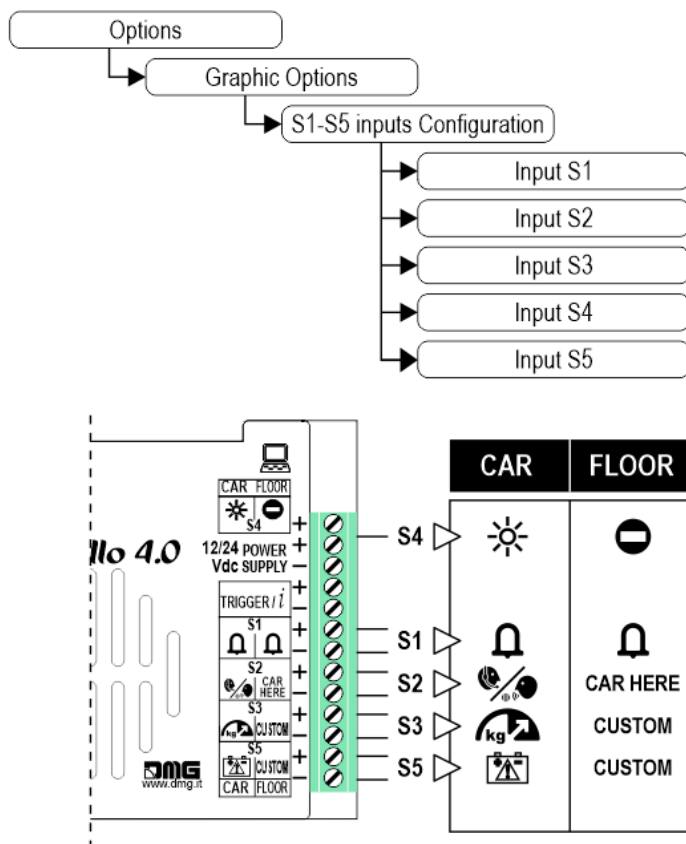
– Setting the signalization viewing mode



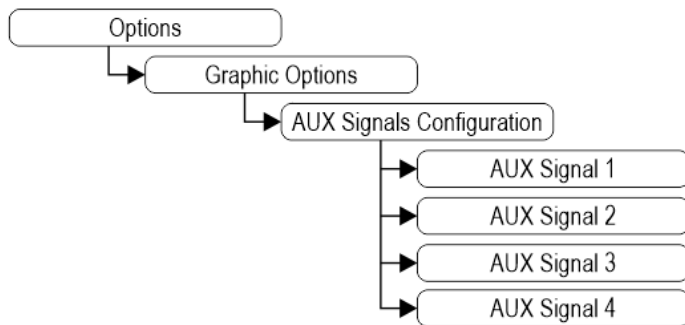
– Set up Display orientation



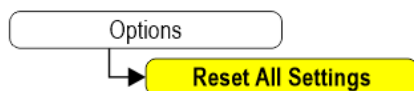
Set up service message inputs



Set up auxiliary signal



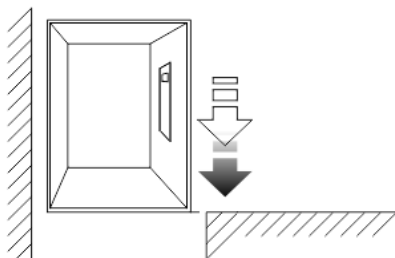
Restore the factory settings



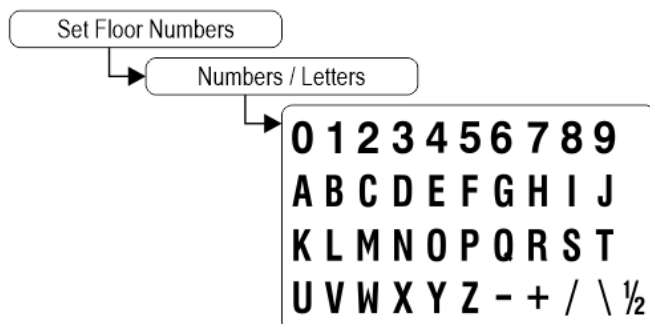
The display original factory settings will be restored and configurations will be deleted.

Customizations of floor

1) Car at floor



2) Set up Floor Numbers / Letters



Raffaello 4,3"

Dimensions	132x80xh20 mm 138x100xh26 mm (EN 81-71)
Screen (Viewable area)	95×74 mm / 480×272 pixel • 65.000 colors
Power supply (position input)	12÷24V DC ±10%
Absorption	<i>DISPLAY</i> 12V DC: Max 102mA • 24V DC: Max 71mA <i>PANIC LIGHT</i> 12V DC: Max 93mA • 24V DC: Max 50mA
Indicators inputs	S1 / S2 / S3: 12÷24V DC ±10% (opto-isolated) Impedance = 3Kohm
Operating temperature	-10°C ÷ +50°C

Raffaello 5"

Dimensions	125x96xh23 mm
Screen (Viewable area)	111×63 mm / 480×272 pixel • 65.000 colors
Power supply (position input)	12÷24V DC ±10%
Absorption	<i>DISPLAY</i> 12V DC: Max 103mA • 24V DC: Max 72mA <i>PANIC LIGHT</i> 12V DC: Max 90mA • 24V DC: Max 50mA
Indicators inputs	S1 / S2 / S3: 12÷24V DC ±10% (opto-isolated) Impedance = 3Kohm
Operating temperature	-10°C ÷ +50°C

Video Tutorial



Firmware



Page under construction

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DIDO-Raffaello-4.3-5-English

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