



2" RAFFAELLO Display

Contents

[Safety and usage cautions](#)

[Mounting](#)

[Wiring Instructions](#)

[POSITION & DIRECTION Input Wiring](#)

[SERVICE MESSAGE Wiring](#)

[Settings](#)

[Datasheet](#)

[Raffaello 2"](#)

[Video Tutorial](#)

[Firmware](#)



✔ Updated to EN81-28:2018 regulation.



Safety and usage cautions

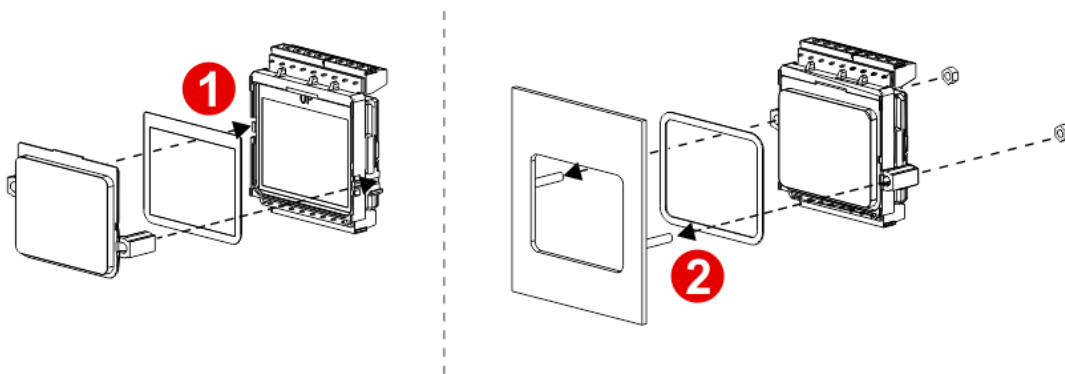
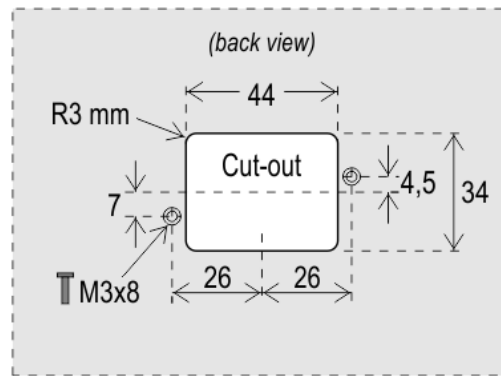
Before installing our products, we recommend you to consult the section about safety and usage cautions at the link below.



Mounting

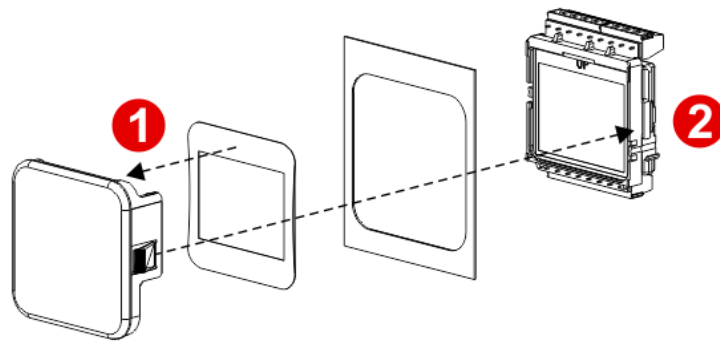
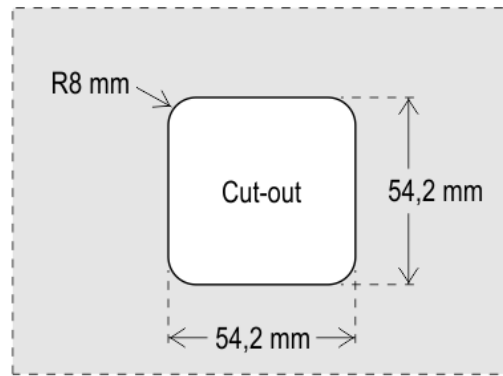
⊖ Flush Mounting (back mounting)

With welded pins on 1,5÷2 mm pushbutton panel



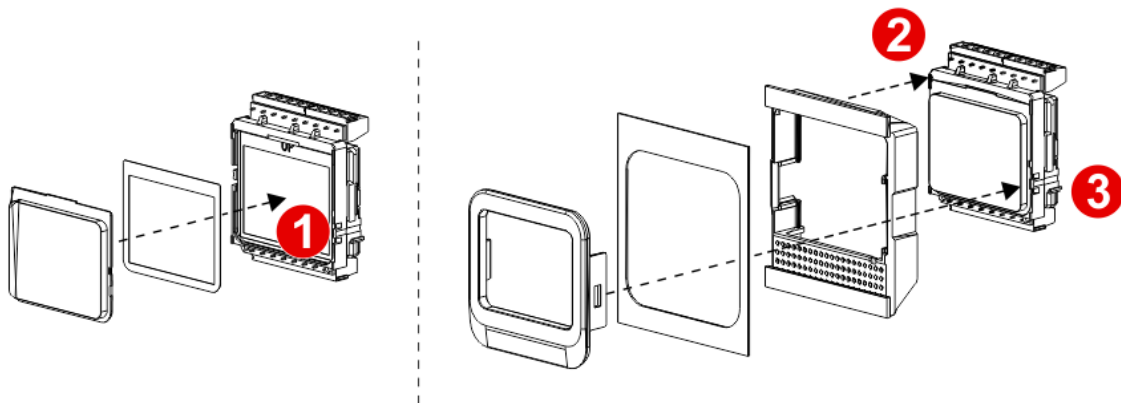
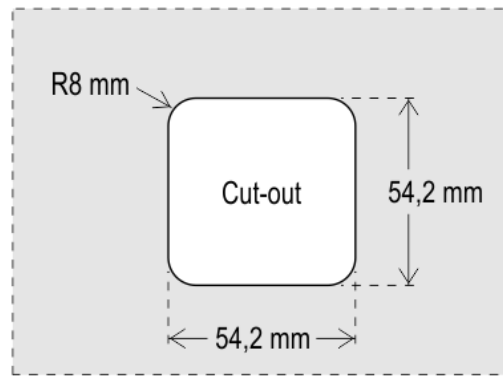
⊖ **With D13 Screen (frontal mounting)**

Frontal mounted on 0,7/3 mm pushbutton panel



– With DZ1 Screen (frontal mounting)

Frontal mounted on 0,7/3 mm pushbutton panel

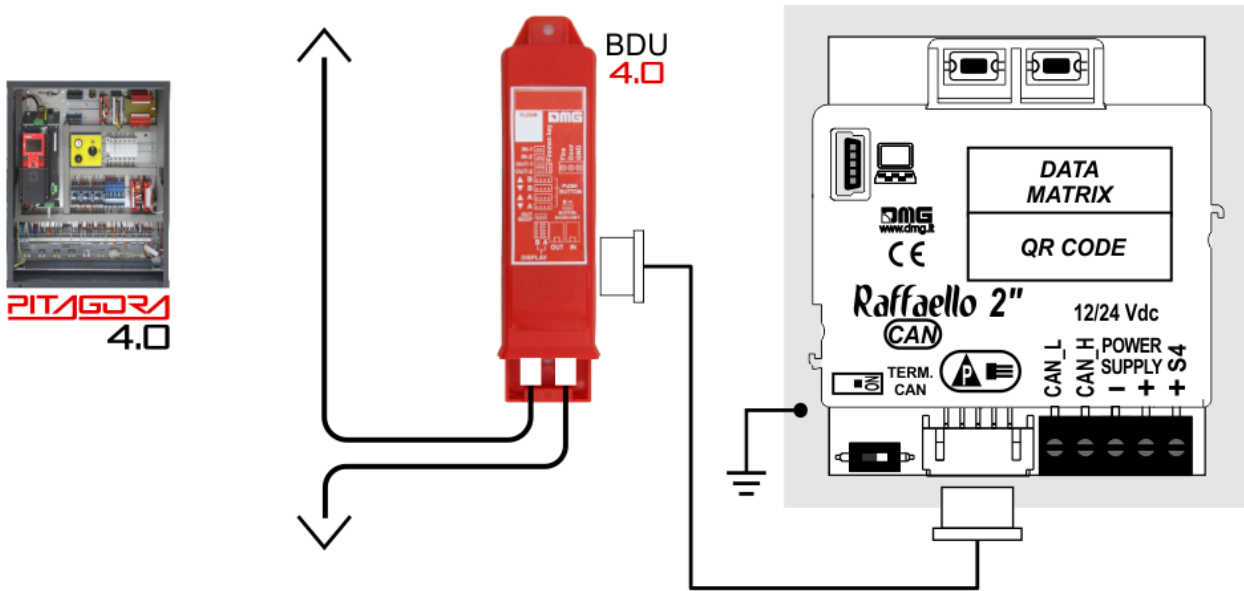


Wiring Instructions

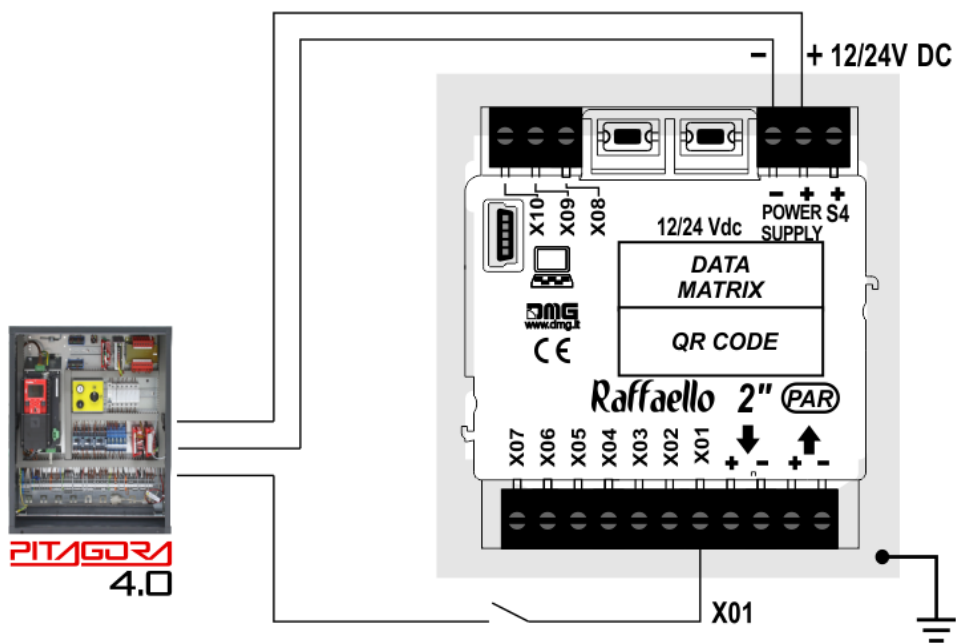
POSITION & DIRECTION Input Wiring

⊖ Pitagora 4.0

DMG
CAN serial protocol
FLOOR



DMG
3-wires serial

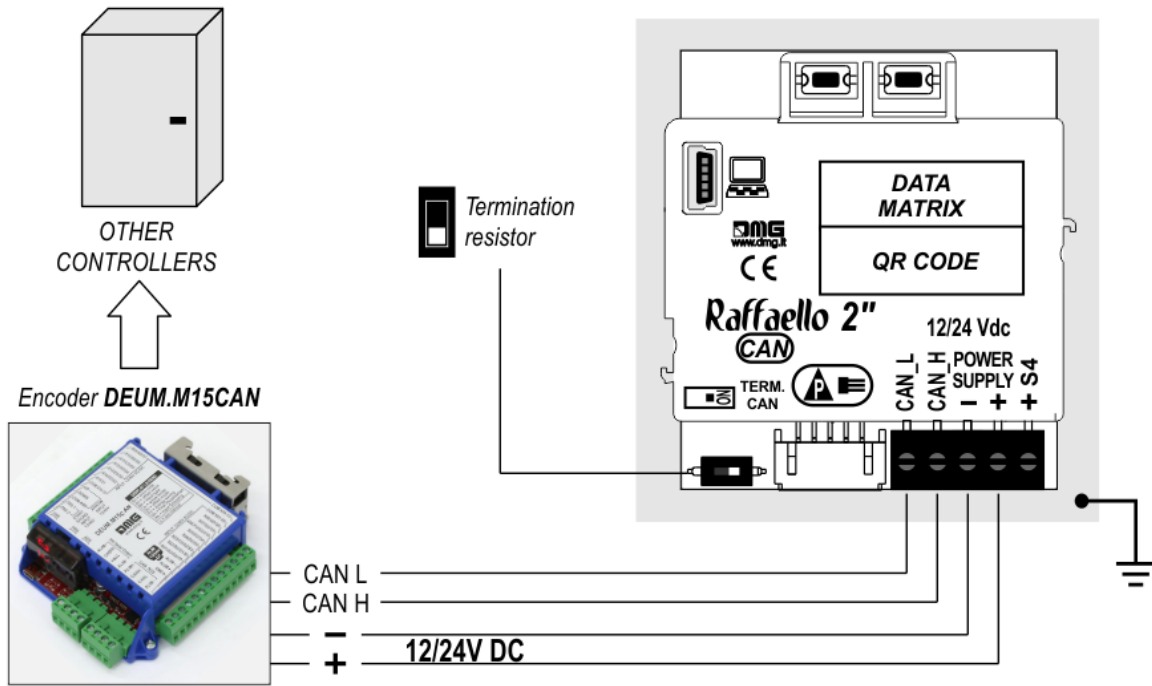


Encoder DEUM

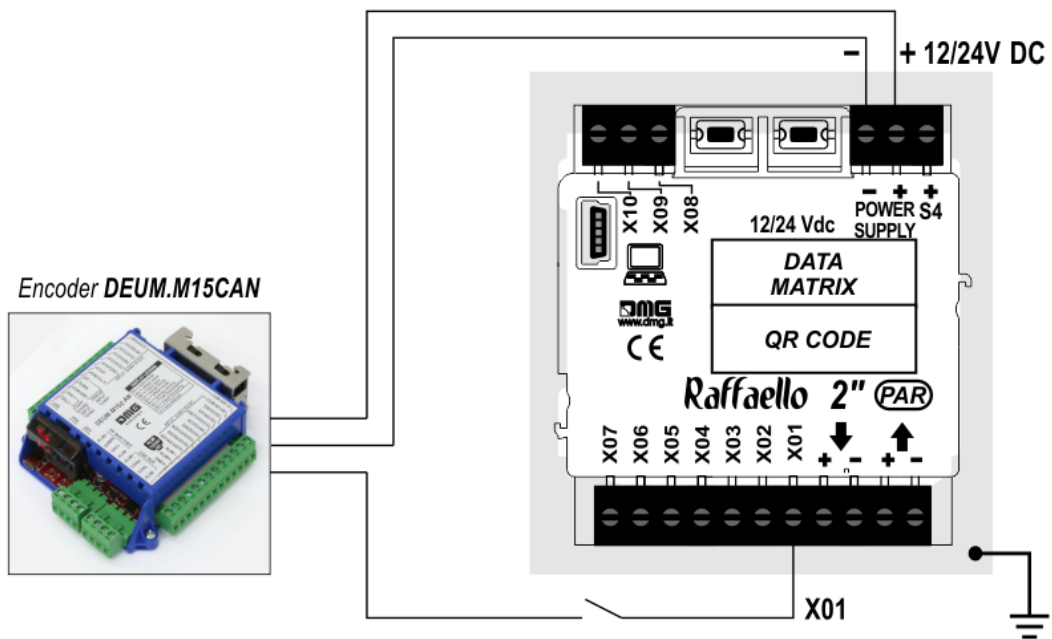


For more details please refer to the [Encoder DEUM support page](#).

DMG
CAN serial protocol

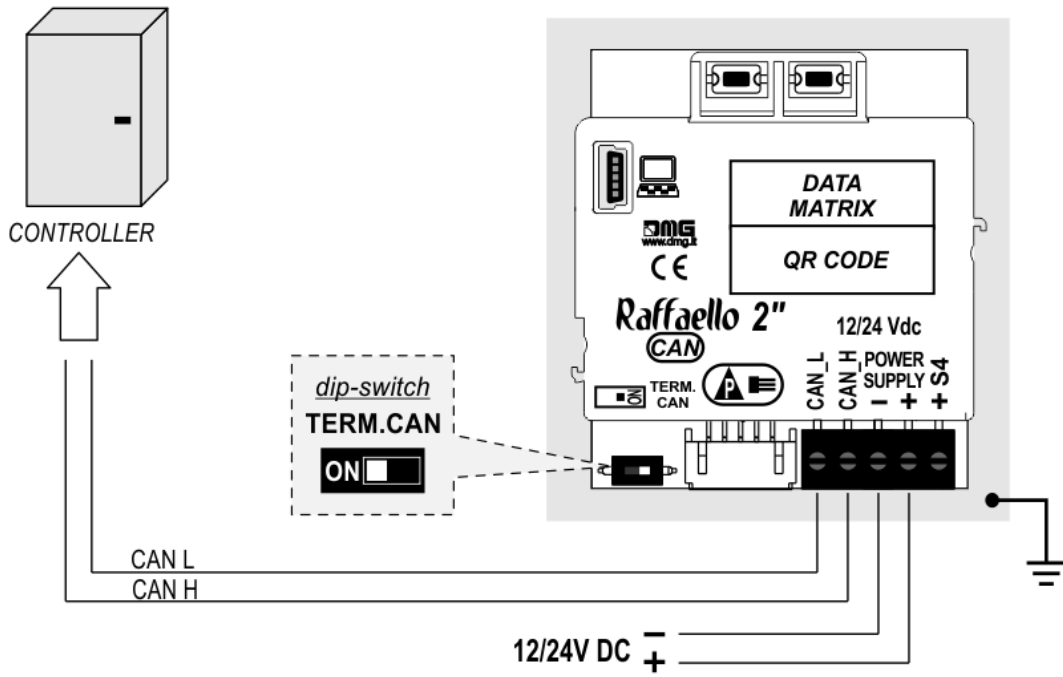


DMG
3-wires serial

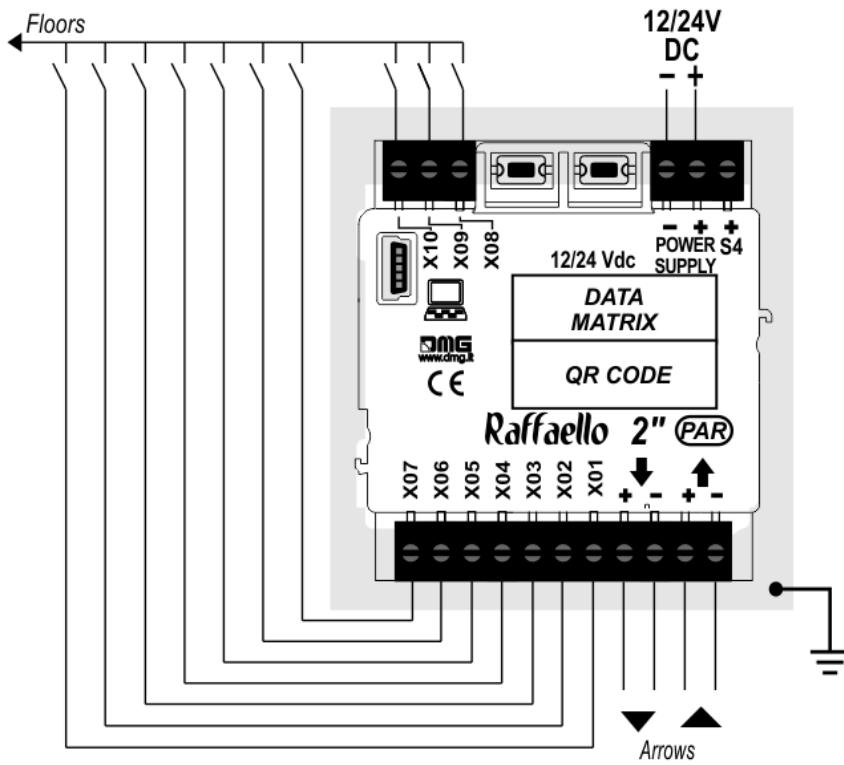


Other Controllers

Proprietary CAN protocol

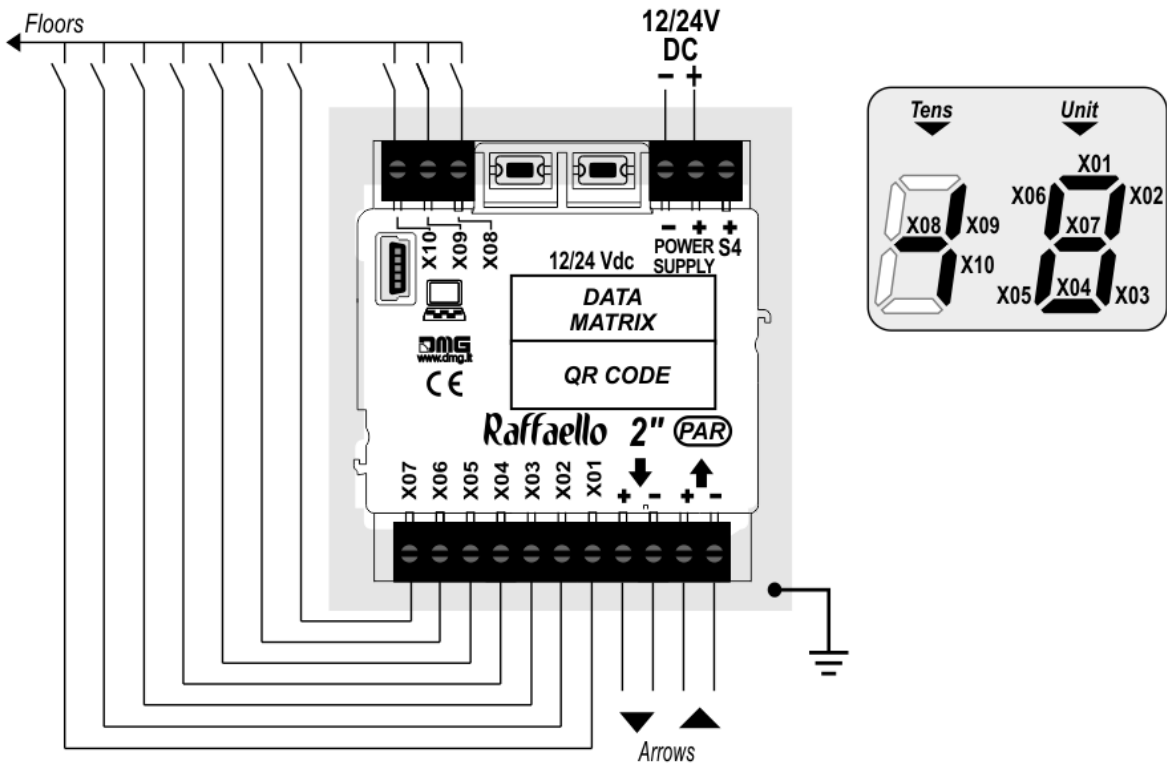


1 Wire / Floor



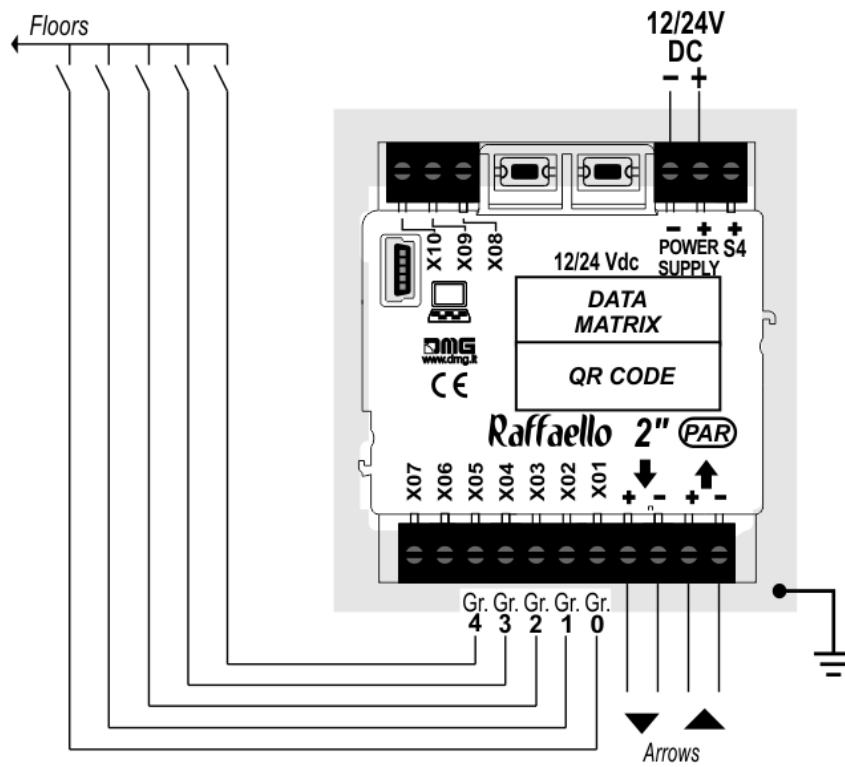
10 floors max.

1 Wire / Segment



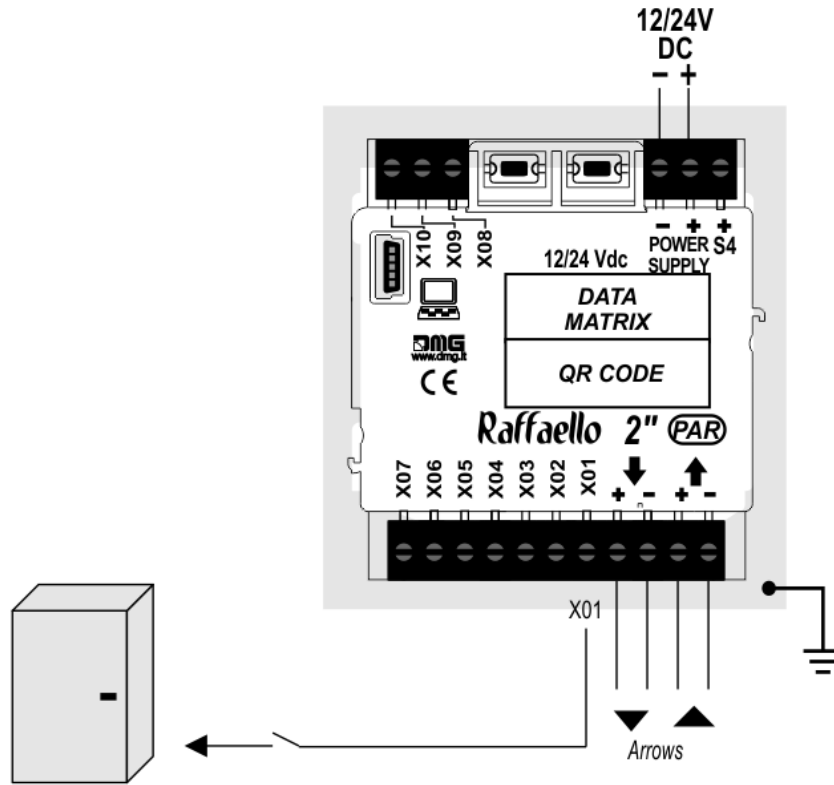
29 floors max. (-9, 0, 19)

Gray / Binary



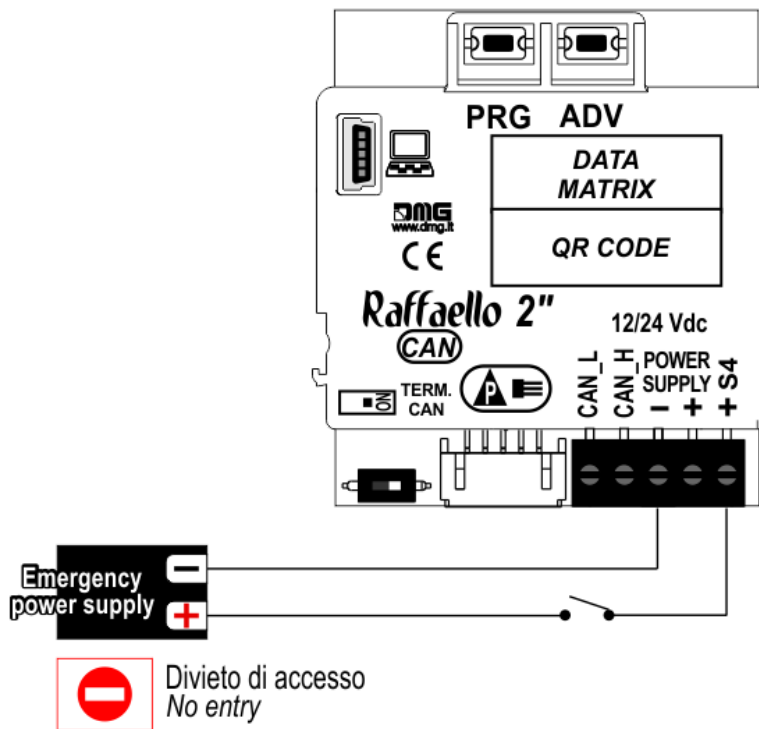
72 floors max. (-9, 0, 62)

TKE/MEA/Autinor

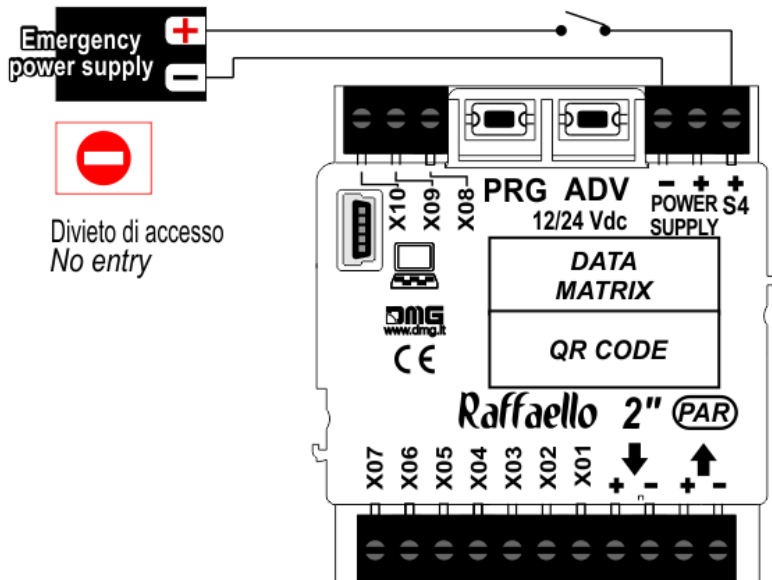


SERVICE MESSAGE Wiring

Parallel display







CAN serial display (*)



(*) – Service messages can also be piloted, through serial bus, in two different ways:

- by controller DMG
- by encoder **DEUM.M15**

Settings

 ADV <i>Setup Key</i>	 ADV <i>Exit / Back</i>	 PRG <i>Access Menu Key</i>	 PRG <i>Value setting (>3 sec.)</i>
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Navigation menu keys

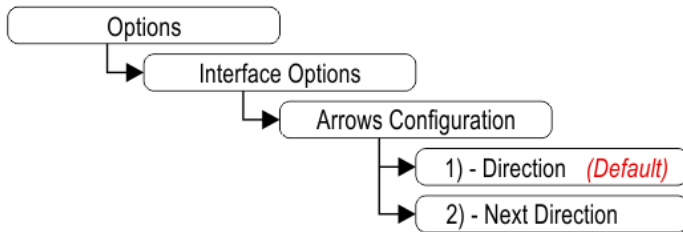
General



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	
			Parallel	CANBUS
Input		Serial / 1 wire per floor / segment Gray / Binary / Pos.Sensor TKE / MEA / Autinor / CAN DMG	•	•
Options	Interface Options	Arrow Configuration	Direction / Next Dir.	•
		Car at Floor	No / Yes	•
		CAN Baudrate	250k, 125k, 10k, Auto	•
		Convert Mezzanine	No / Yes	•
		Offset Value	-9 / ... / 0 / ... / +9	•

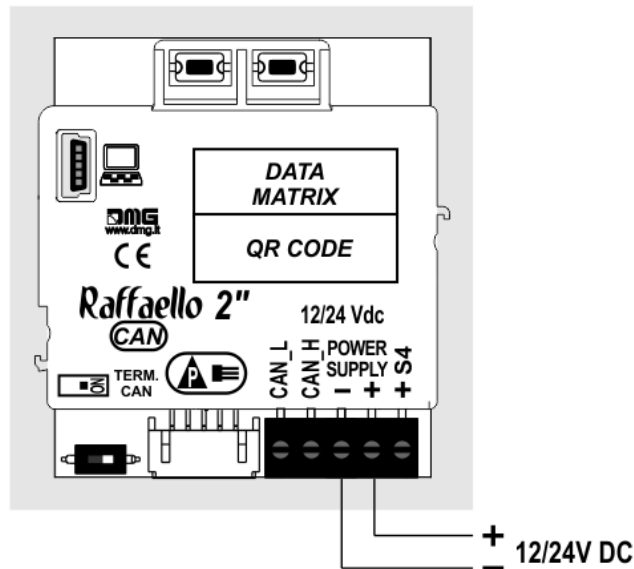
MENU	MENU ITEM	AVAILABLE CHOICES	INPUTS			
	First Visualization	Blank / Zero	•			
	Common Selection	Negative / Positive	•			
	Arrow Type	Fixed arrows / Scrolling arrows	•			
	Enable AUX Signals	10 + 0 / 6 + 4	•			
	Input Filtering	0 ... 20	•			
	Screensaver timer	Disabled / 10-20 / 30-60 / 60-120	•	•		
	Graphic Options	Font	Dado / Classic Bold / Lagoon / Dot Matrix	•	•	
		Flat Style	Symbol color	White / Red / Orange / Blue / Gray / Black	•	•
			Background color	Black / Pacific Blue / Navy Blue / Reef Blue / Light Gray / White / Orange / Red	•	•
			Specials	White-Green / White-Lilac / Purple-Yellow / White-Gray	•	•
		Gradient Style	Style	Black & White / Red Passion / Gray Goose / Blue Shades	•	•
			Color	Galaxy / Ocean Dream 2/1 / Reef Blue / Purple haze / ...	•	•
		Floor Symbols	Show / Hide	•	•	
		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	•	•	
		Signal Inputs Configurations	Input S4	•	•	
	AUX Signals Configurations	AUX Signal 1 / 2 / 3 / 4	•	•		
Reset All Settings			•	•		
?	DEMO mode	No / Yes	•	•		
	Firmware Version / Life Time (internal use)		•	•		
Floor Numbers	Numbers / Letters	Choose the Numbers / Letters	•			



- 1) – Direction arrows (default)
- 2) – Next direction arrows (instructions below)

Next Direction Arrows enabled from input

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

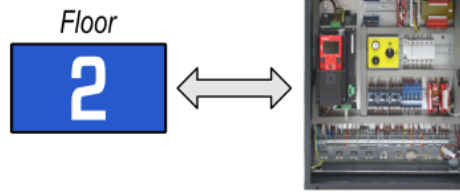
Next Direction Arrows locally programmed

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.

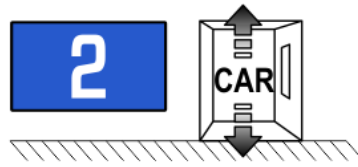
– Addressing procedure

- 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) – Press and hold the ADV key and wait for the display to flash for 3 seconds to confirm.
- 5) – Repeat procedure for each floor.

1



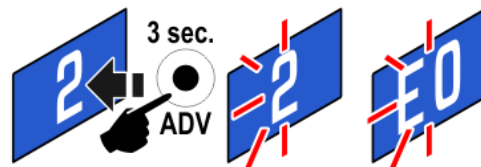
2



3

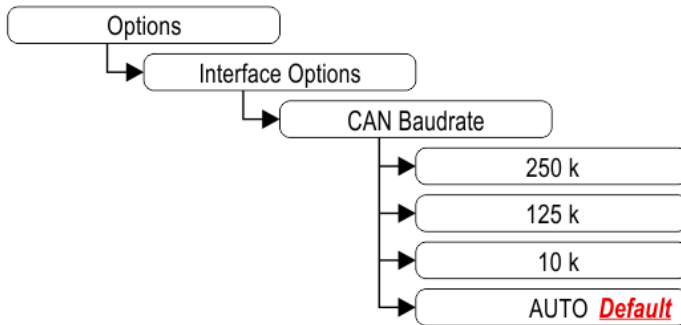


4

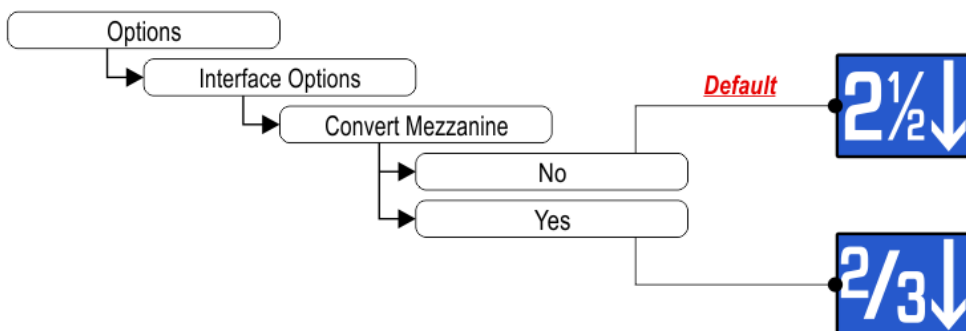


If the **DEUM Encoder** is used, please refer to the relevant manual

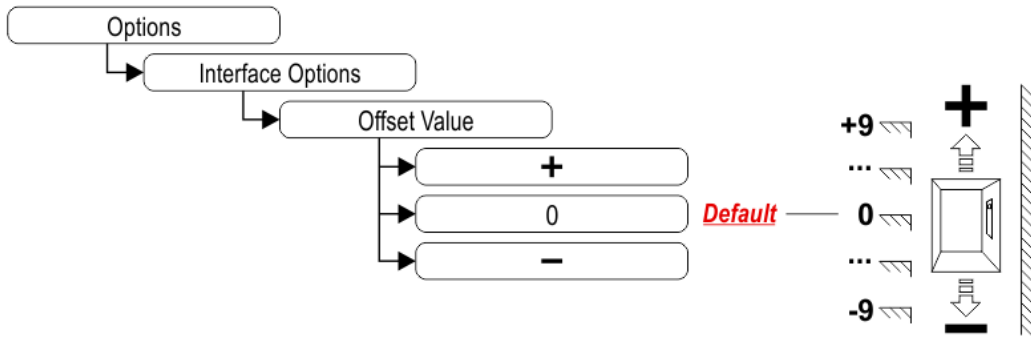
⊖ Set up CAN BUS protocol transmission speed



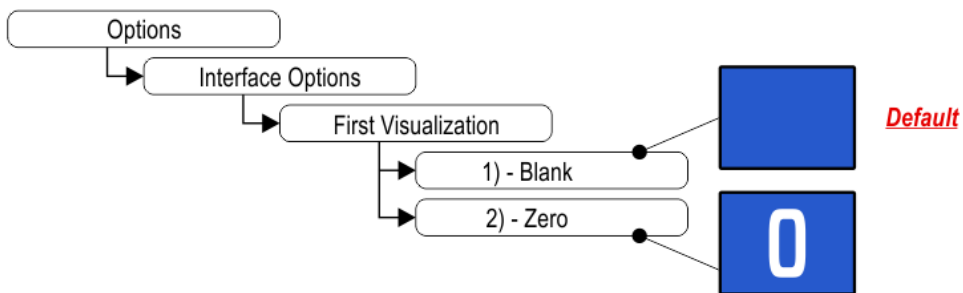
⊖ Intermediate floors visualization



Set up floors OFFSET



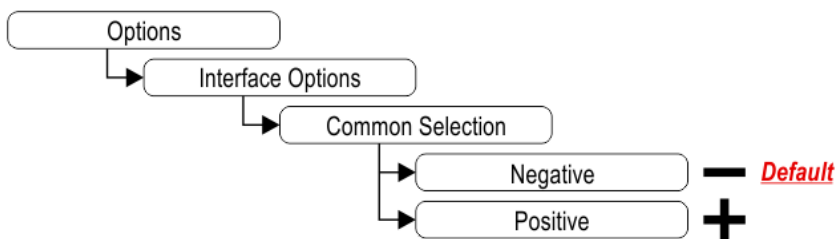
Set up first visualization



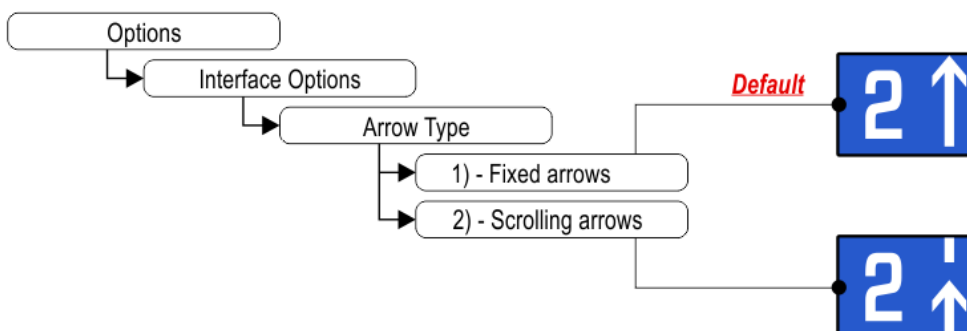
1) - It does not display any numbers

2) - Lowest floor

Set up Parallel position common input

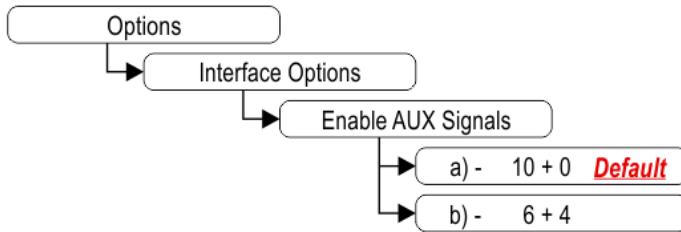


Set up scrolling arrows



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

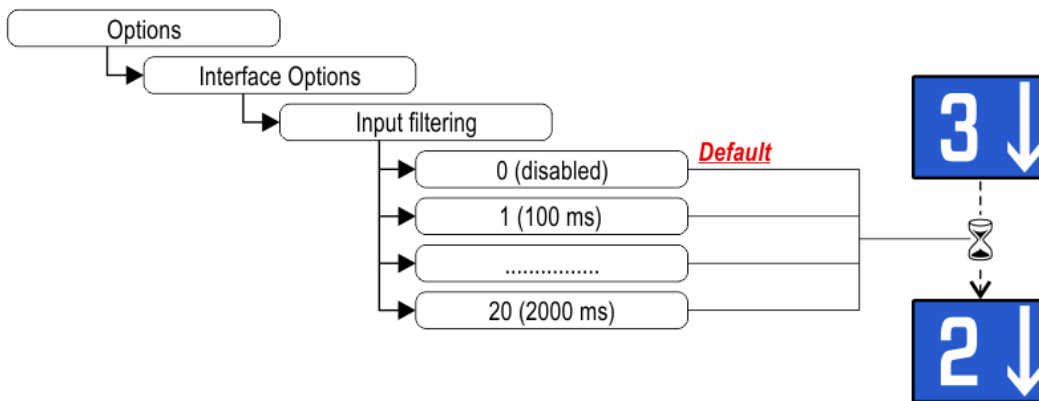
– Enable auxiliary signals



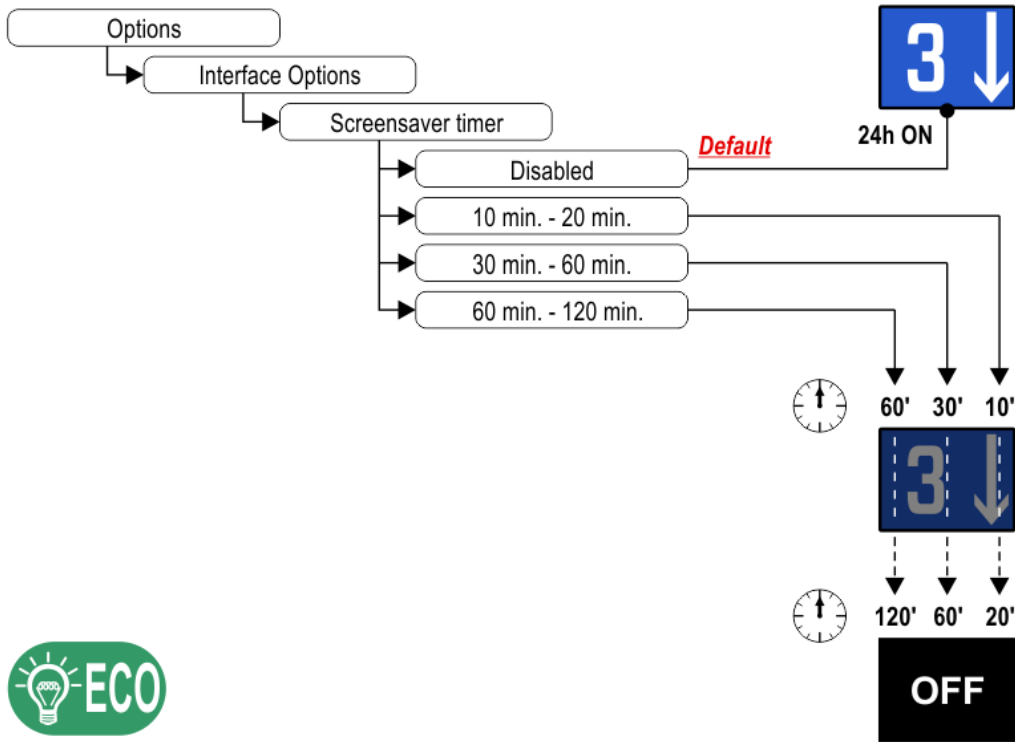
- a) – 10 Floor parallel inputs (X01÷X10) + 0 AUX Signals
- b) – 6 Floor parallel inputs (X01÷X06) + 4 AUX Signals (X07÷X10)

– Set up the display delay of floor change

The display delay helps avoiding visualization errors during floor change.

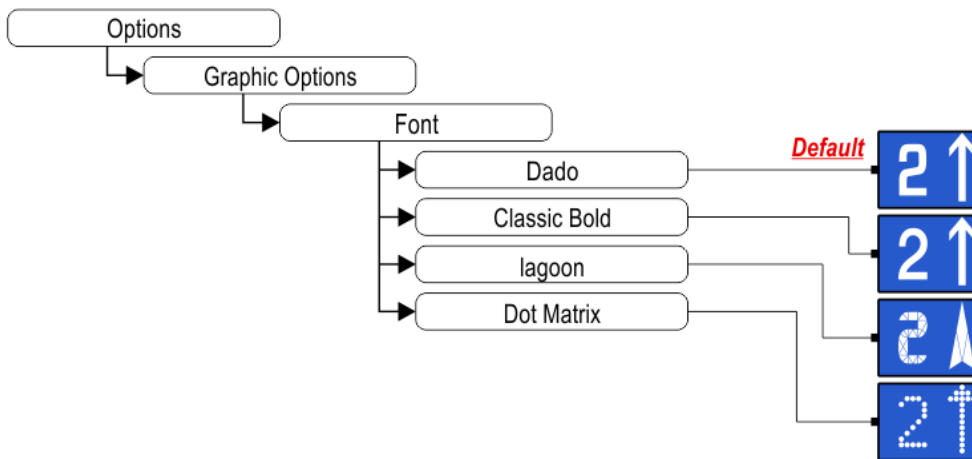


– Enable energy saving function

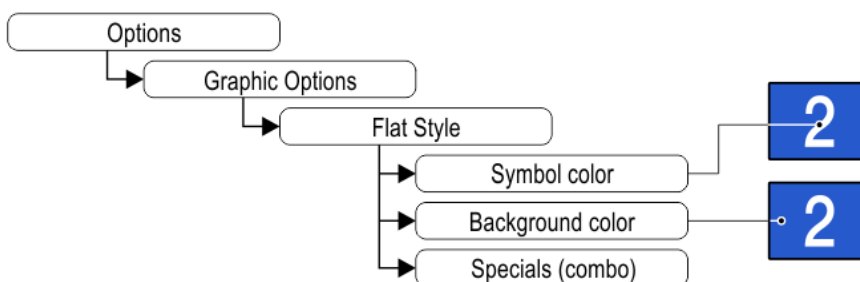


"Energy saving" mode to reduce consumption when idle.

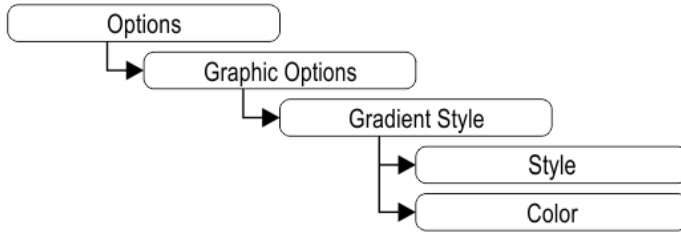
Set up Font



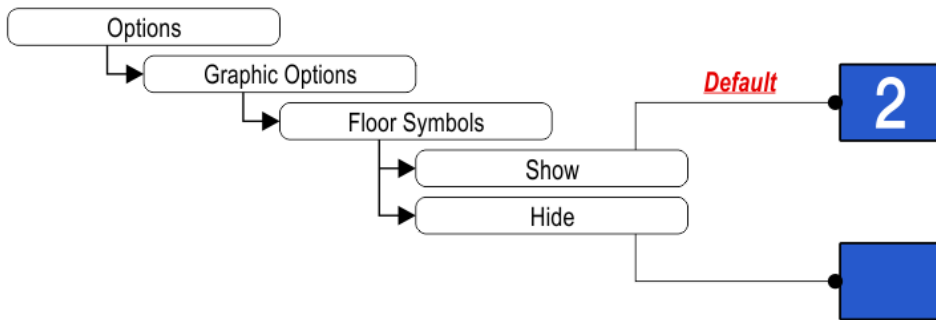
Set up flat Style Color



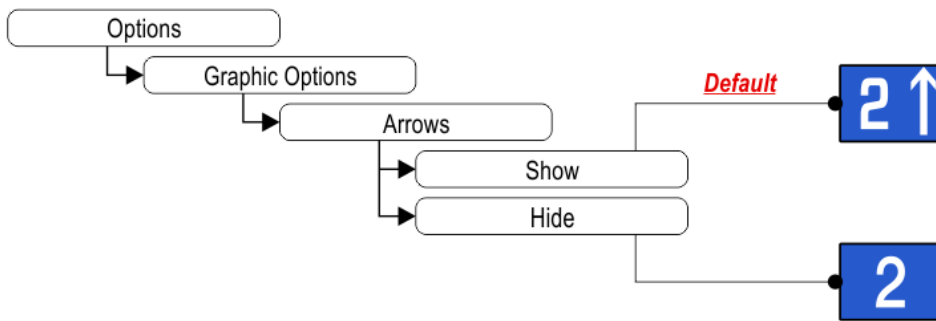
– Set up gradient Style Color



– Show/Hide position

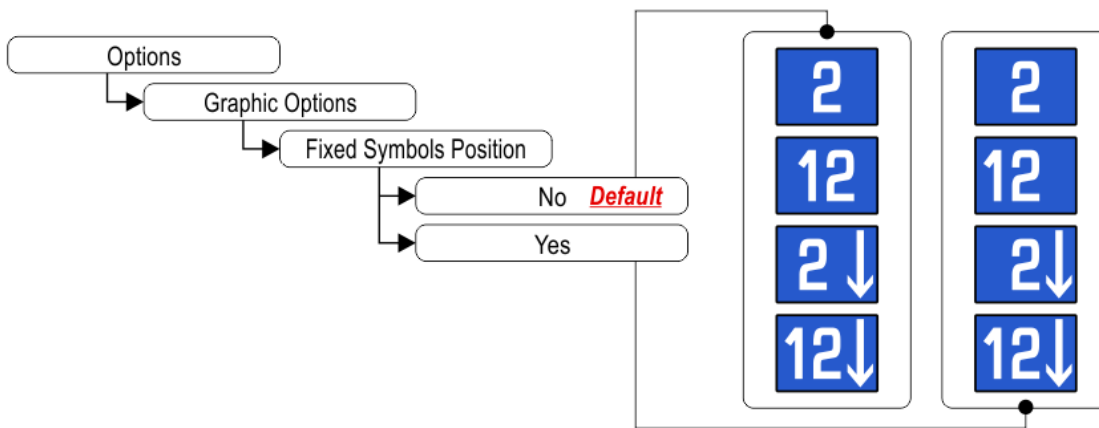


– Show/Hide arrows



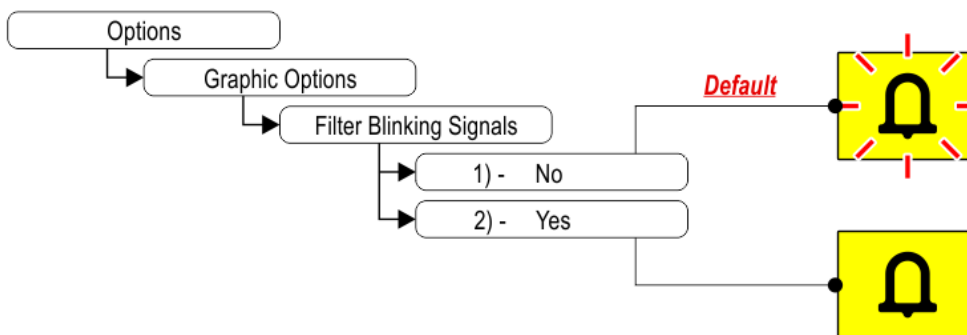
– Set up Symbols position

Landscape orientation modes only.



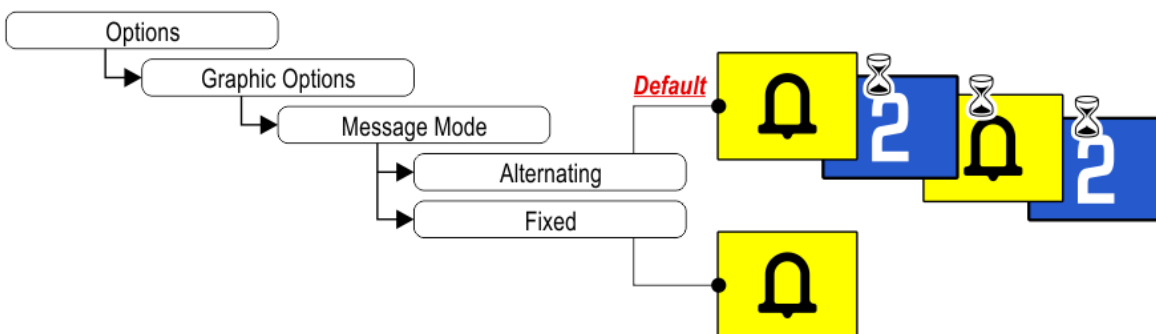
If "Yes", the symbols will stay in fixed positions independently of the arrow status.

Signalizations (visualization)

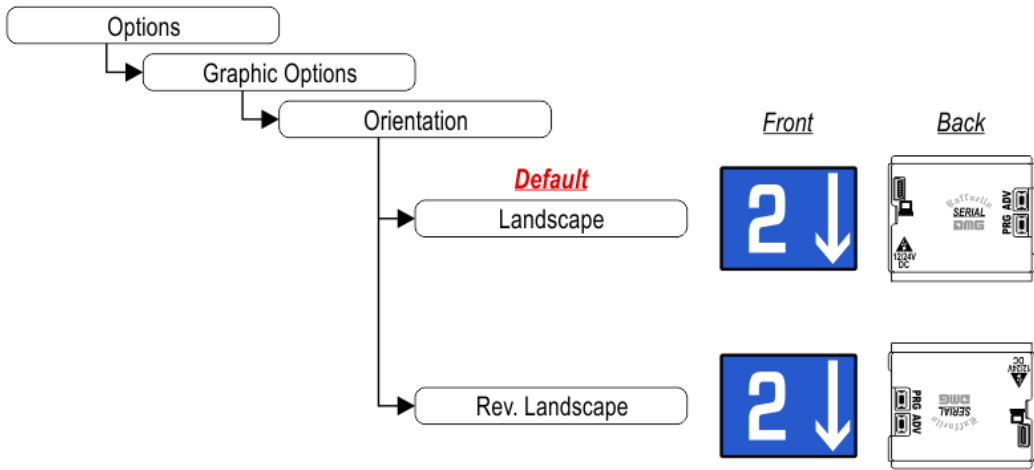


- 1) – Fixed or blinking signalizations (input from controller).
- 2) – Fixed signalizations.

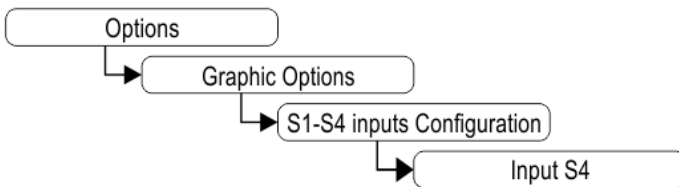
Set up Viewing mode of signalization



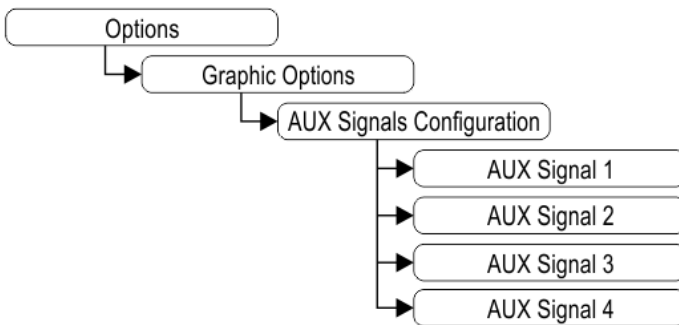
Set up display orientation



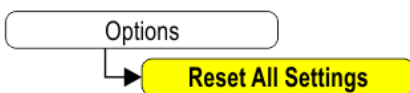
Set up service message inputs



Set up auxiliary signal



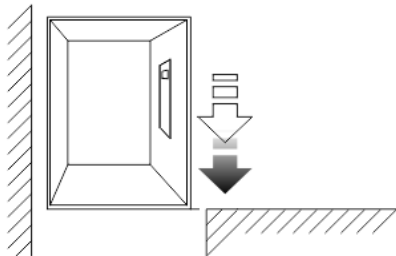
Restore the factory settings



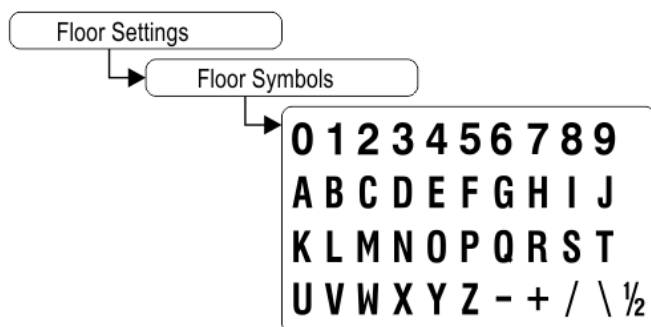
The display original factory settings will be restored and configurations will be deleted.

Floor customizations

1) Car at floor



2) Set up Floor Numbers / Letters



Datasheet

Raffaello 2"

Dimensions	62×68 mm (STD) 62×76 mm (DZ1) 55×68 mm (D1)
Screen	40,8×30,6 mm / 320×240 pixel
Power supply (position input)	12÷24V DC ±10%
Absorption	12V DC: Max 49mA • 24V DC: Max 36mA
Indicators inputs	S4: 12÷24V DC ±10%
Operating temperature	-10°C ÷ +50°C

Video Tutorial

