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4,3"/5" RAFFAELLO Display

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(v 1.0)



1 To check and download all versions of this guide, go at the following link.

Overlapsic Updated to EN81-28:2018 regulation.



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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 ≤ 8 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 8mm; if not, shorten them.





Frontal mounted on 1/2 mm pushbutton panel



Wiring Instructions

Wiring of position and direction inputs

Pitagora 4.0

DMG CAN serial protocol CAR

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FLOOR



DMG 3-wires serial





Encoder DEUM

i For more details please refer to the **Encoder DEUM** support page

DMG CAN serial protocol



DMG 3-wires serial



RS485 serial CAR



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

1 Wire / Segment

29 110015 111aX. (-9, 0, 1

Gray / Binary

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

TKE/MEA/Autinor

SERVICE MESSAGE Wiring

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

Settings

ADV Setup Key

PRG Access Menu Key

Menu navigation keys

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	Gong Volu	me		0-OFF / 1-MIN / 2 / 3 / 4-MAX	•	•	•
Settings	Buzzer Volume			0-OFF / 1-MIN / 2 / 3 / 4-MAX	•	•	•
Options		Display Co	onfiguration	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	•		
	Interface	Offset Value		-9 / / 0 / / +9		•	
	Options	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	٠	٠	•
			Symbol color	White / Red / Orange / Blue / Gray / Black	٠	•	٠
		Flat Style	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	•	•	•

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.

C Enable "Car at Floor" signal from "NEXT DIR." input

Set up CAN BUS protocol transmission speed

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^{2) –} Lowest floor

a) – 10 Floor parallel inputs (X01 \div 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 flat Style Color

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Landscape orientation modes only.

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

Setting the signalization viewing mode

Set up service message inputs

Restore the factory settings

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

Customizations of floor

2) Set up Floor Numbers / Letters

Datasheet

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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	DISPLAY 12V DC: Max 102mA • 24V DC: Max 71mA PANIC LIGHT 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	DISPLAY 12V DC: Max 103mA • 24V DC: Max 72mA PANIC LIGHT 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

Download

Reference	Version	Link
	1.0 (current version)	Download PDF (English)

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