dido.dmg.it

GIOTTO Display

Contents

(v 1.1)

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

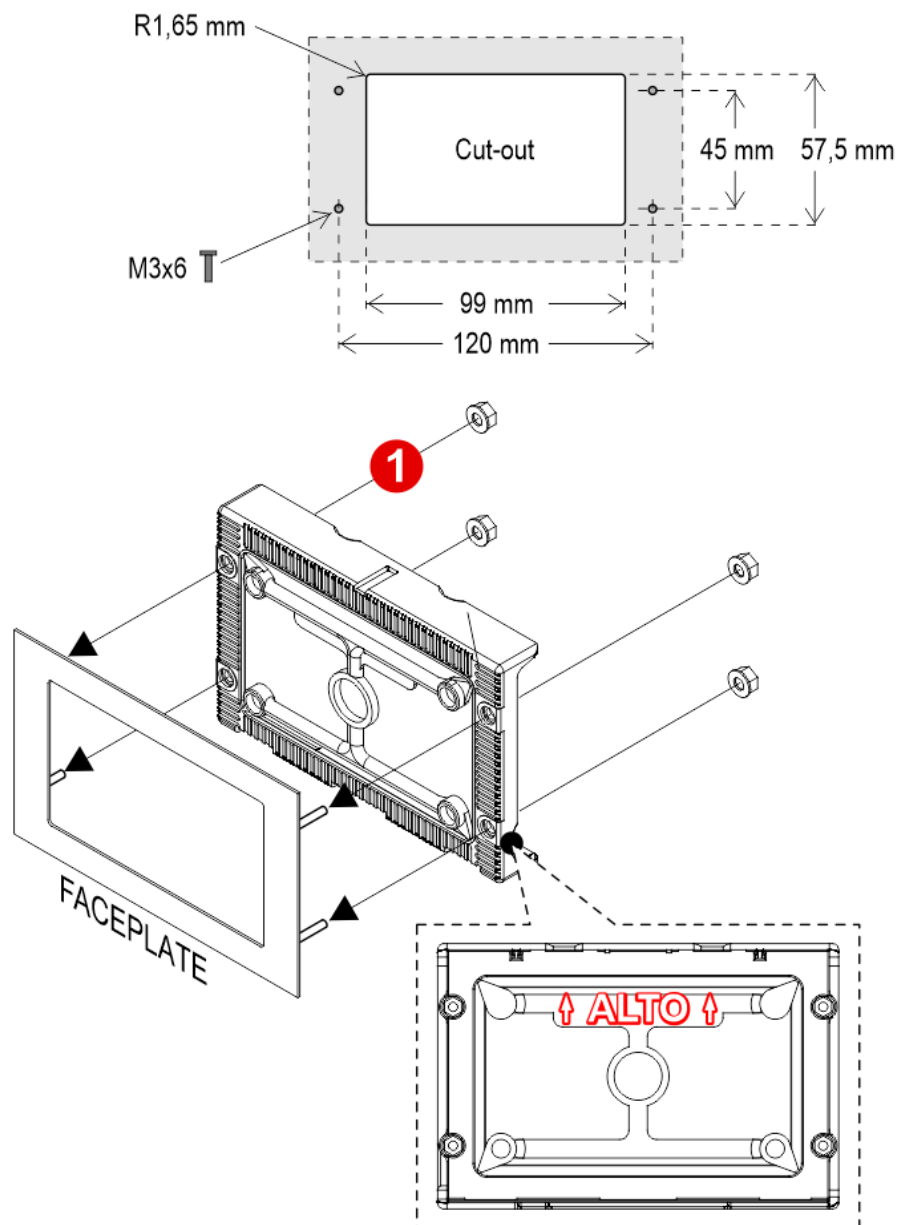✅ **Updated to EN81-28:2018 regulation**.

Safety and usage cautions

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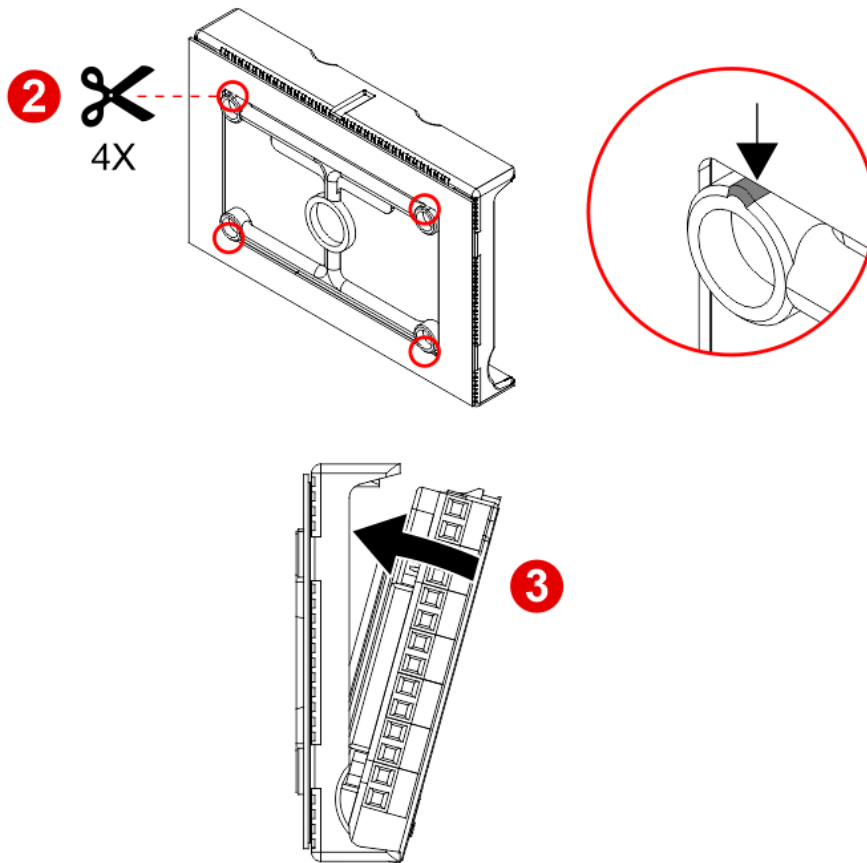
Mounting

Giotto 4.3"

With welded pins on 1,5/3 mm pushbutton panel
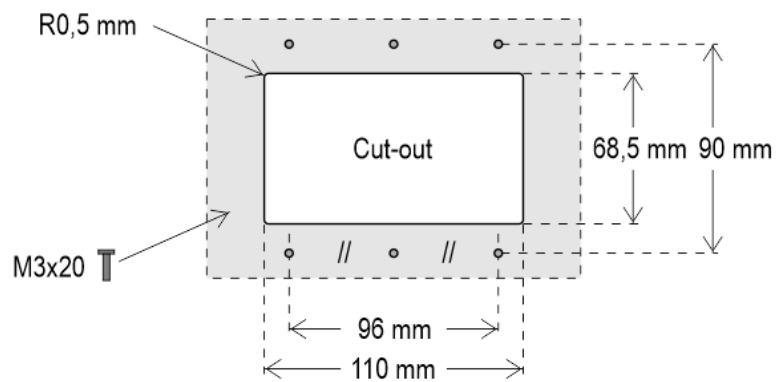
⚠️ If you are replacing an existing position indicator, please verify that studs' length match the above mentioned one; if not, please shorten them.

➖ **Giotto 4.3″ (EN81-71)**

With welded pins on 2/3 mm pushbutton panel

2mm thickness plate only

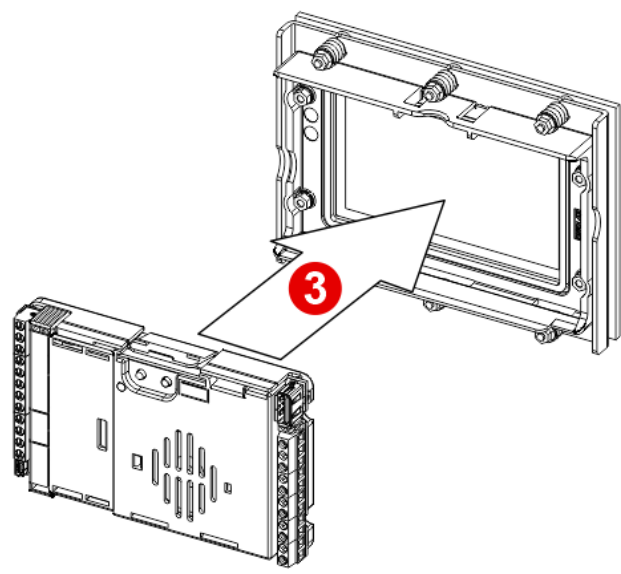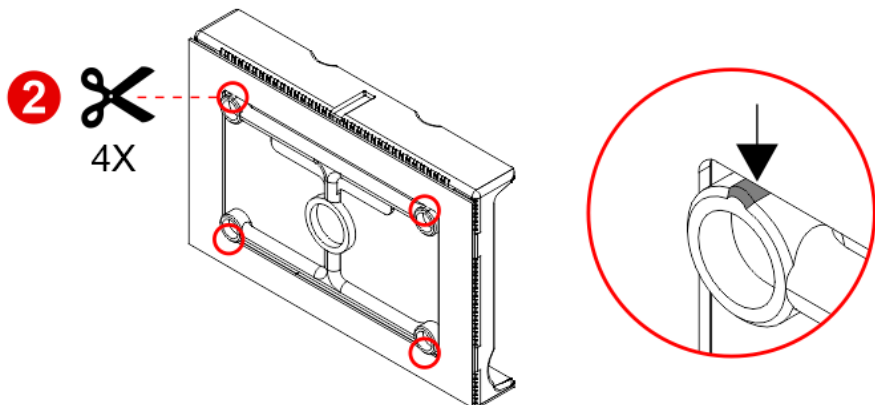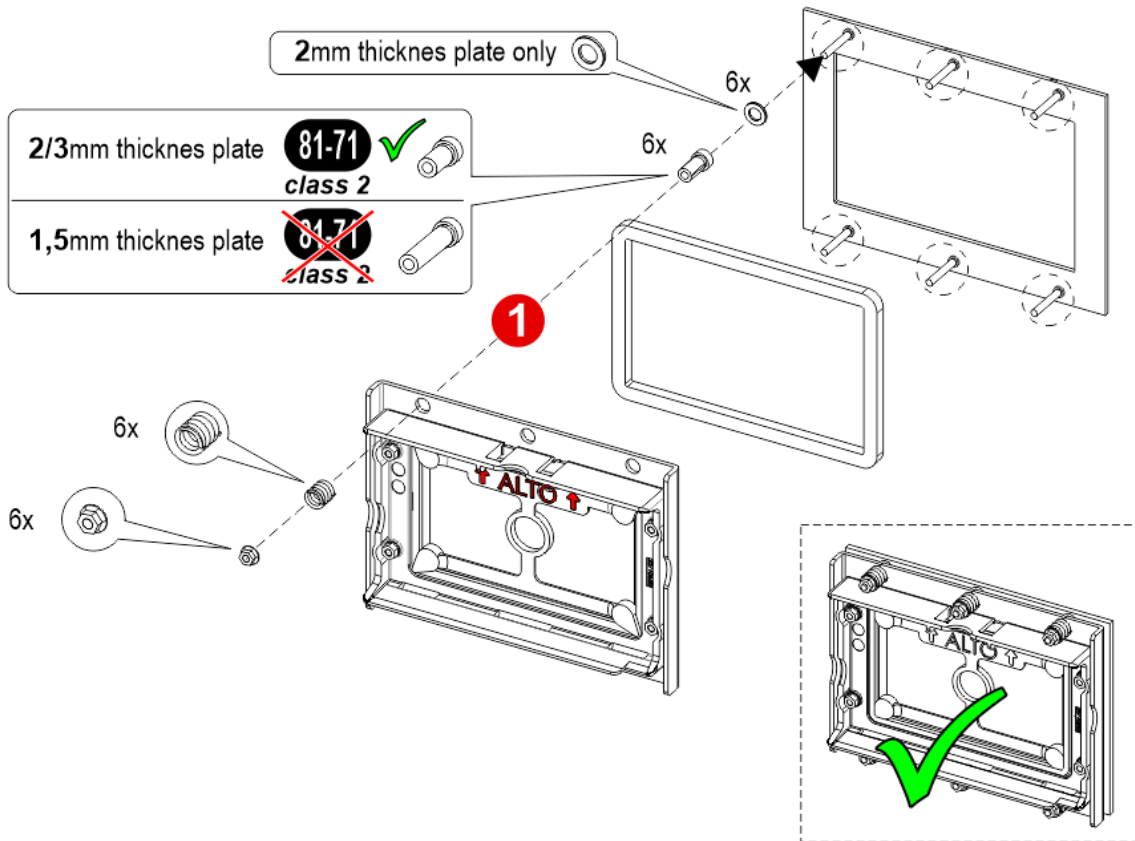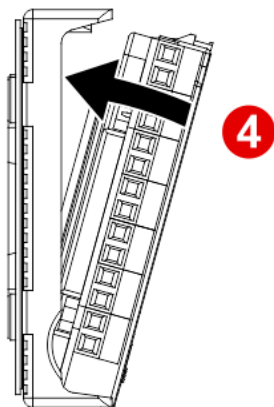| 2/3mm thickness plate | 81-71 class 2 ✓ |
| 1,5mm thickness plate | 81-71 class 2 ✗ |

6x

6x

6x

6x

① ALTO

✓

② ✂ 4X

③

⚠️ If you are replacing an existing position indicator, please verify that studs' length match the above mentioned one; if not, please shorten them.

⊖ Giotto 5″

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

R1,65 mm

Cut-out

62,9 mm

110,9 mm

3 4X

BACKPLATE · SOTTOPIASTRA

4

5

2

1

BACKPLATE · SOTTOPIASTRA

4

NO

REMOVE THE BIADHESIVE AND
DEGREASE THE FACEPLATE

24h
9   6
ATTENDERE
AWAIT

6

With welded pins on 2/3 mm pushbutton panel

FRONT view

R1,65 mm

Cut-out

47,03 mm

62,9 mm

43,27 mm

M3x18

50,3   49,3

110,9 mm

3 4X

1

2

2 mm thicknes plate

3 mm thicknes plate

Frontal mounted on 1/2 mm pushbutton panel

R3,5 mm

Cut-out

93 mm

143 mm

Giotto 5.6″

With welded pins on 1,5/3 mm pushbutton panel
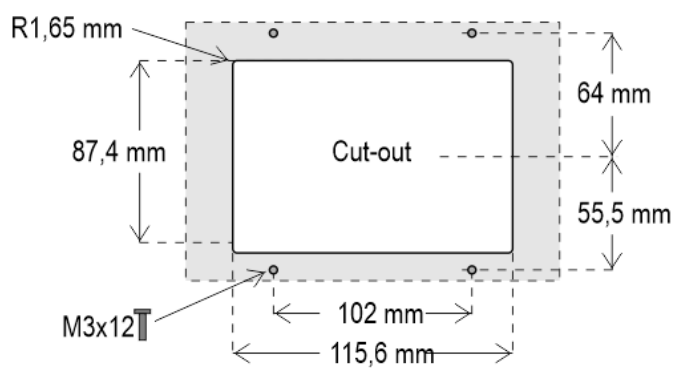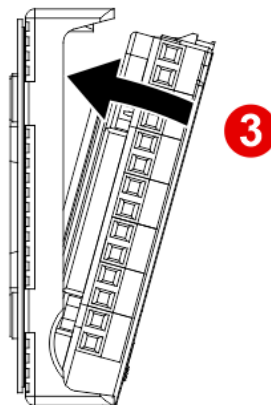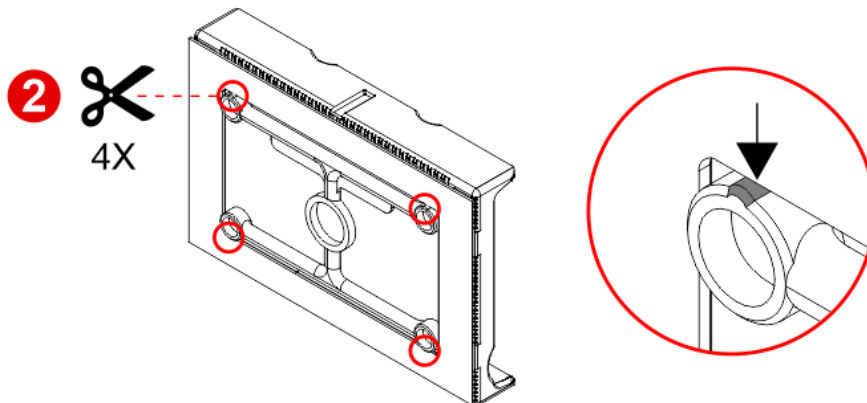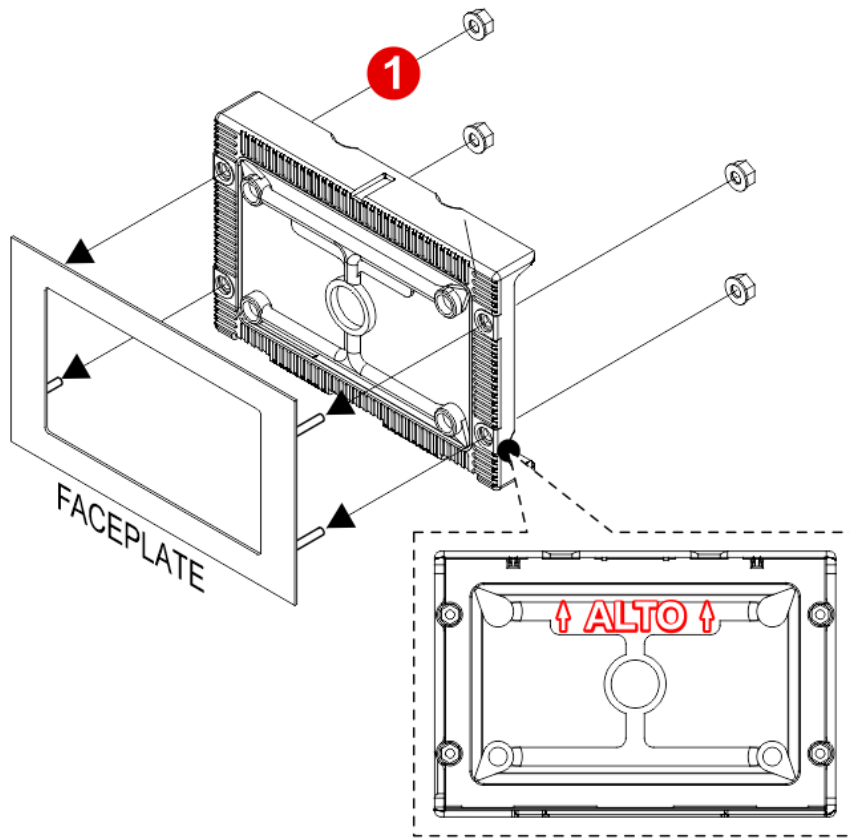
R1,65 mm

64 mm

87,4 mm

Cut-out

55,5 mm

M3x12
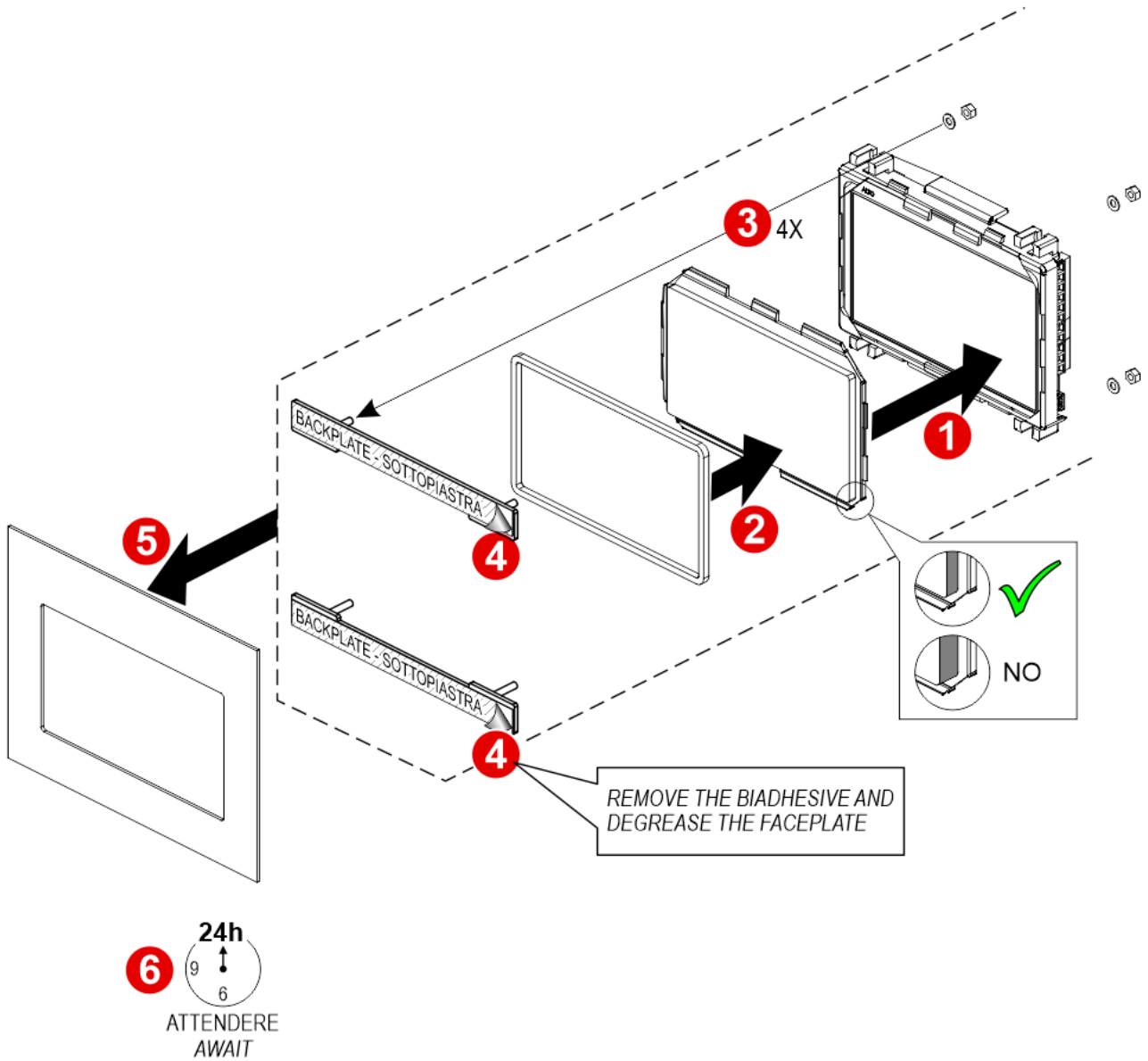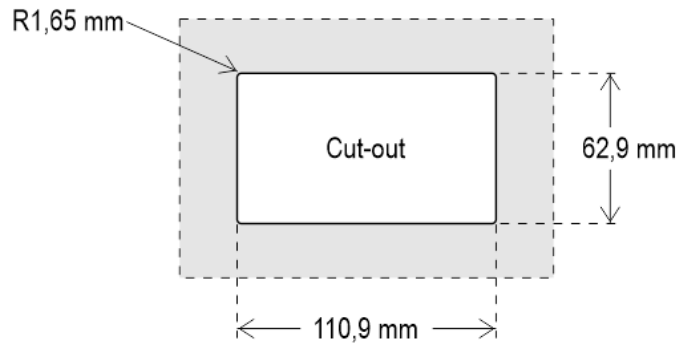
102 mm

115,6 mm

FACEPLATE

ↂ ALTO ↂ

2 ✂ 4X

3

⚠ If you are replacing an existing position indicator, please verify that studs' length match the above mentioned one; if not, please shorten them.
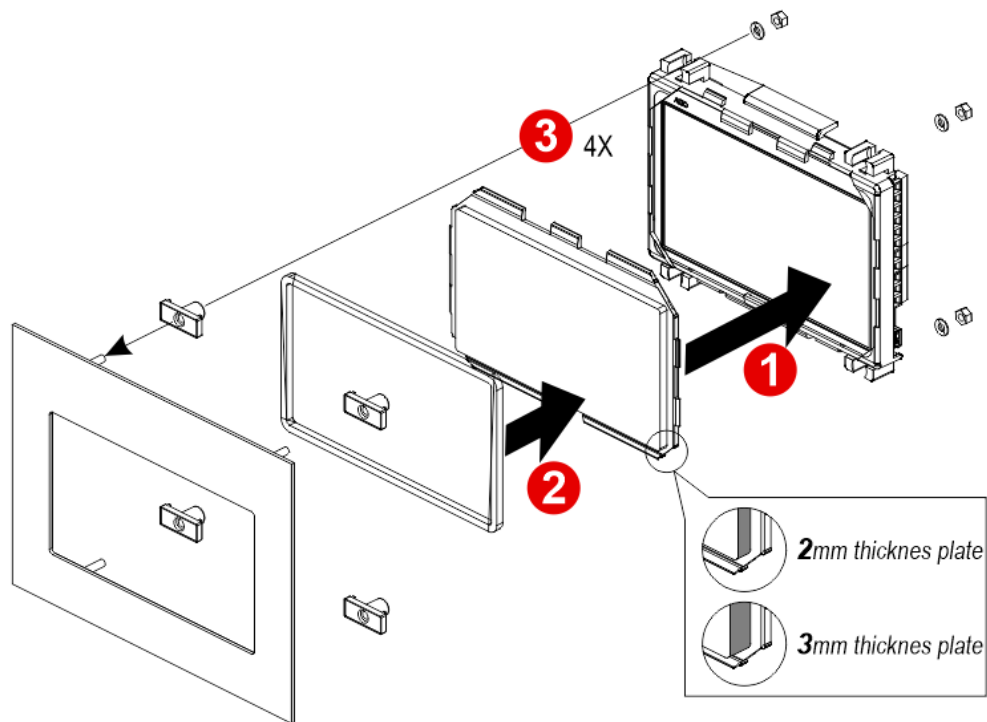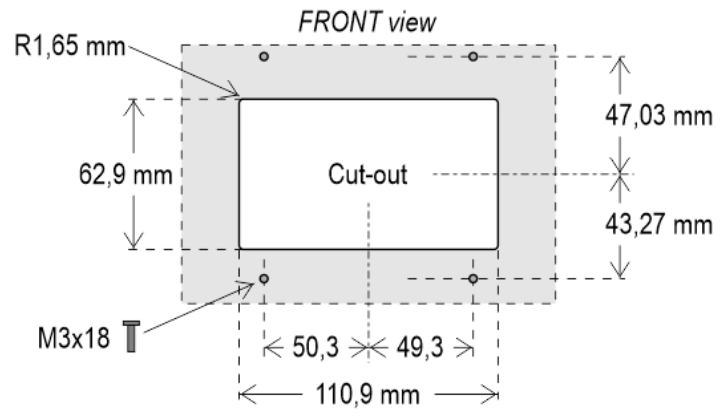
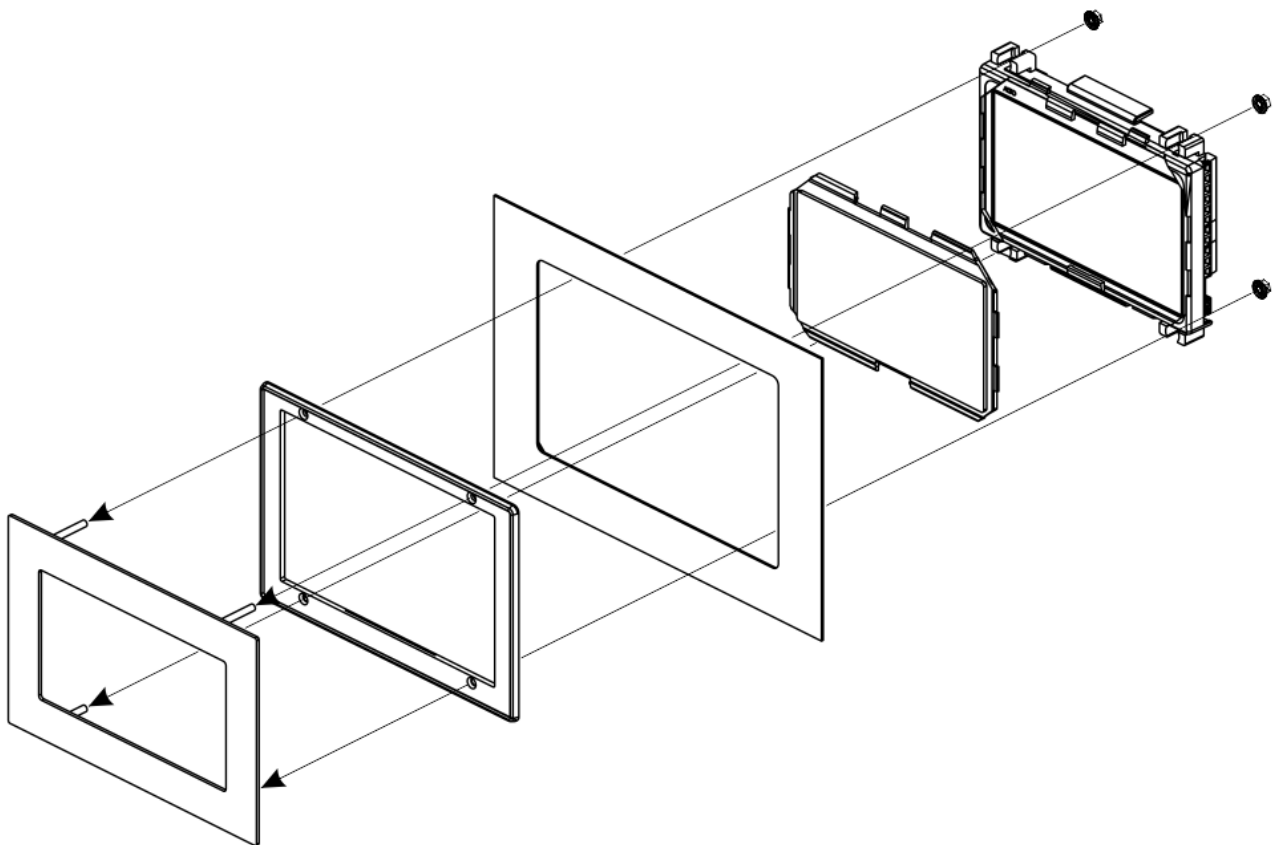⊖ **Giotto 7″**

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

R3 mm

Cut-out

89 mm

132 mm

M3x8

70 mm

70 mm

157 mm

A
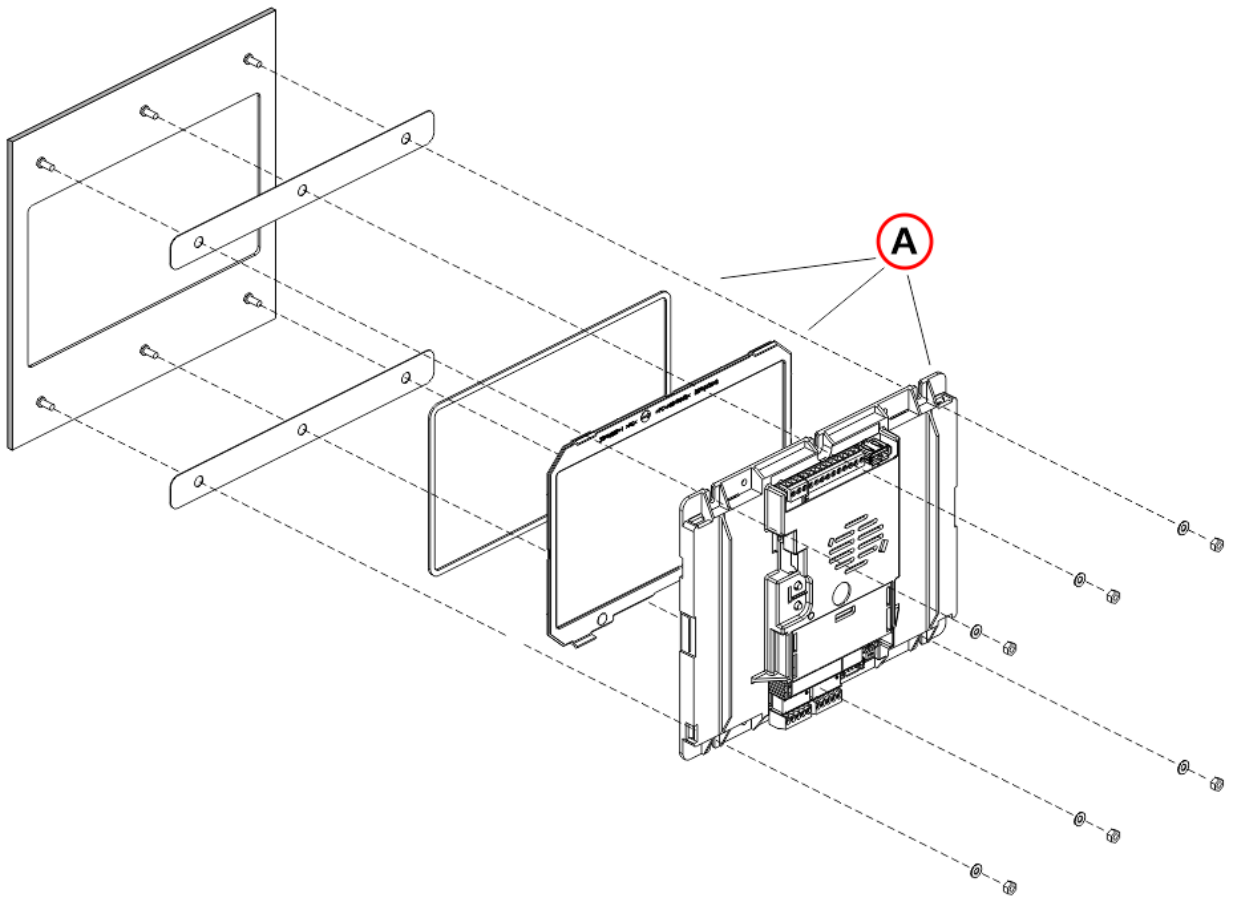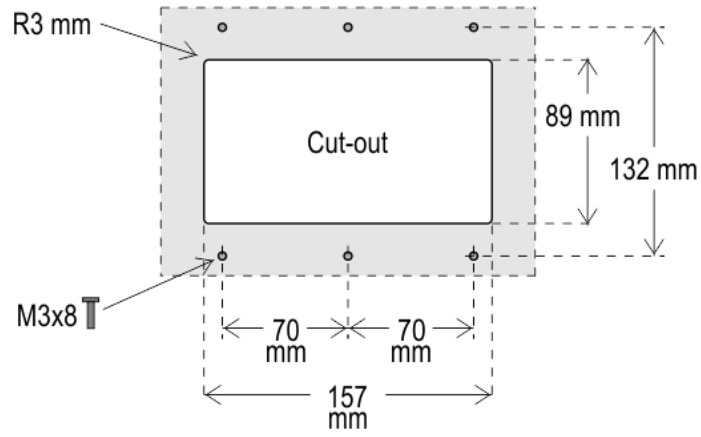
A) – These 3 components may have already been assembled in DMG.

With pins on backplate (for 1/2 mm pushbutton panel)

R3 mm

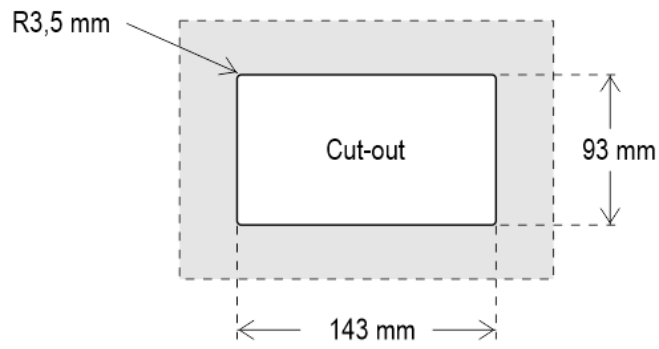Cut-out

89 mm

157 mm

2 mm
1,5 mm
1 mm

1) – Assemble all the components.

2) – First of all remember to remove the double-sided tape from the subplate.

A) – These 3 components may have already been assembled in DMG.

Giotto 7″ (EN81-71)

With welded pins on 2/3 mm pushbutton panel
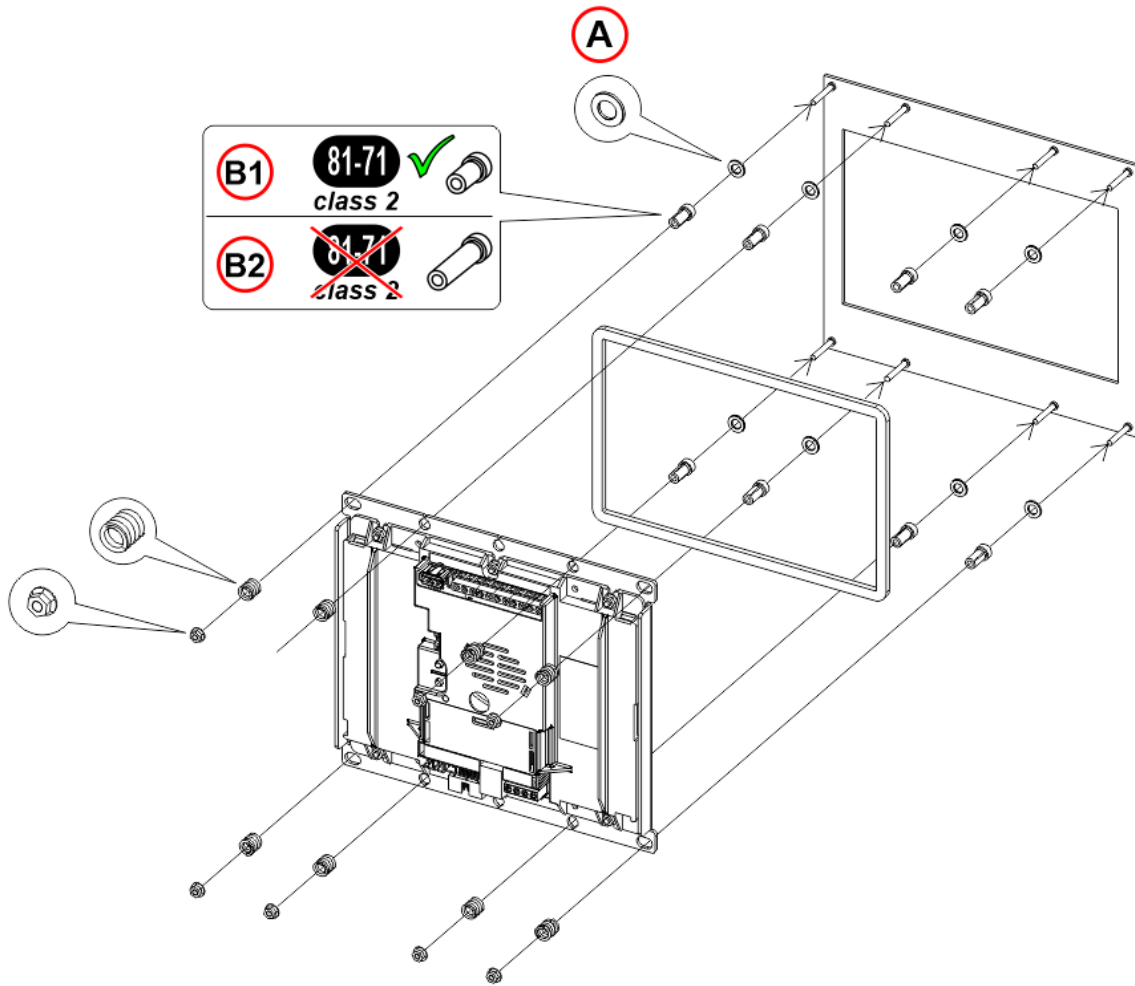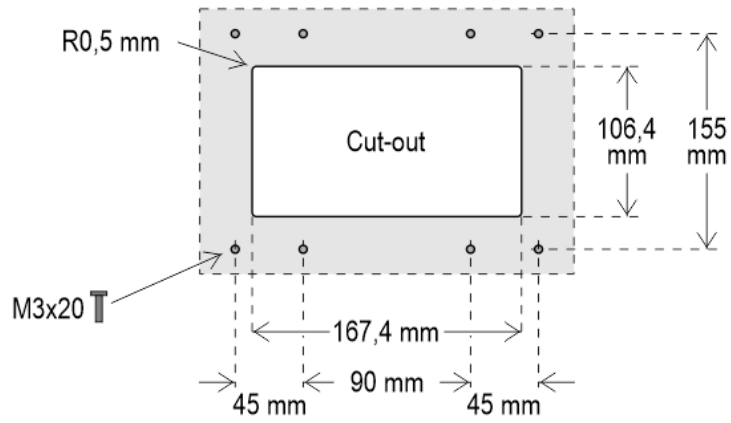
A) – With 2mm thickness plate only

B1) – With 2/3mm thickness plate

B2) – With 1,5mm thickness plate (NOT EN81-71)

⚠️ If you are replacing an existing position indicator, please verify that studs' length match the above mentioned one; if not, please shorten them.

Giotto 10.1″

Giotto 10,1″ overall dimensions: 241 x x169 mm (h 35,5 mm)

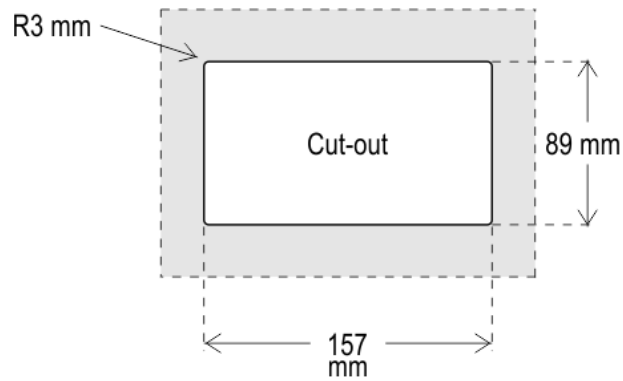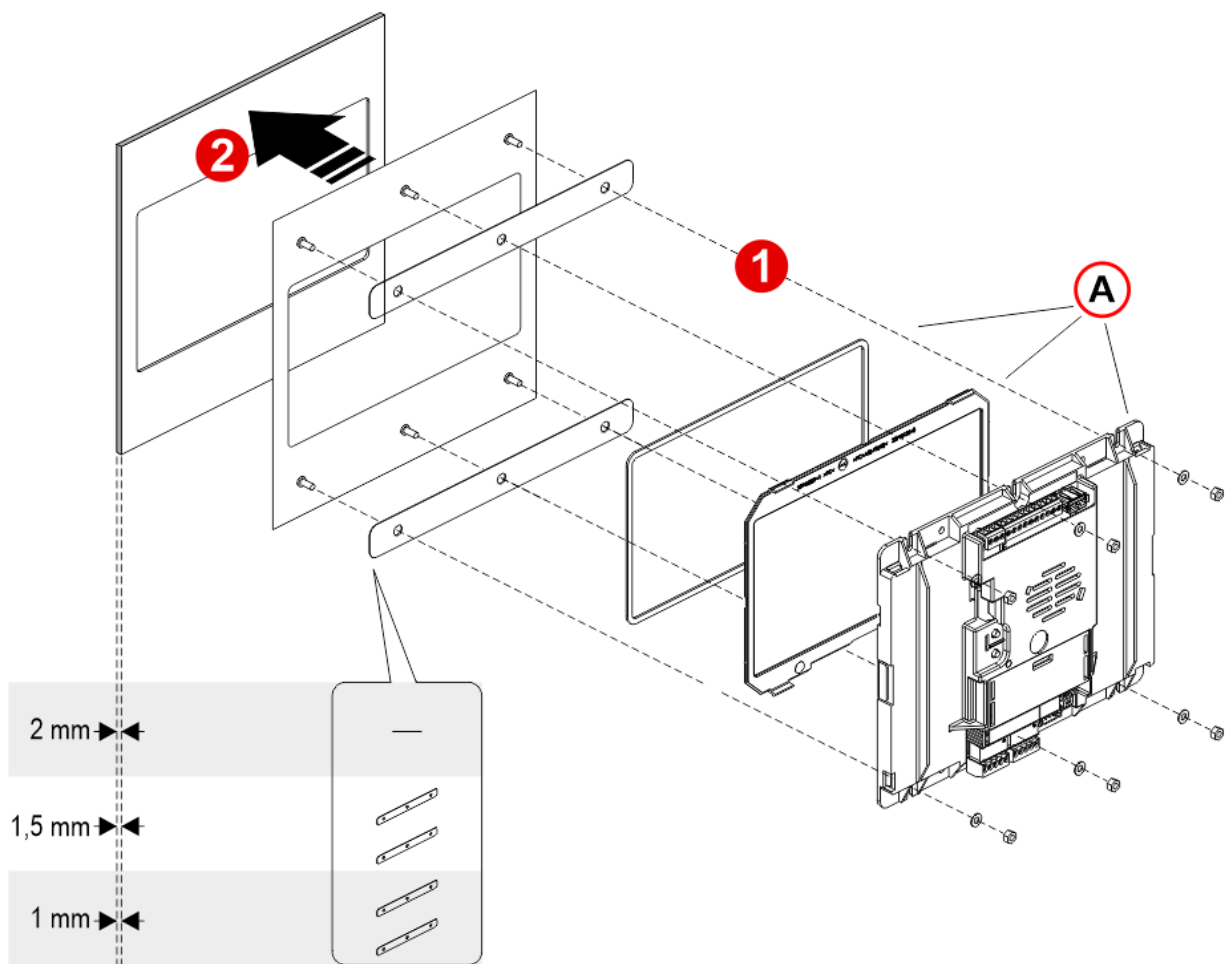**With welded pins on 1,5/3 mm pushbutton panel**

R3 mm

Cut-out

125,1 mm

158 mm

M3x18

100 mm · 100 mm

222,6 mm

A

125 mm

100 mm

FACEPLATE

1,5 mm ✓ 15/10

2 mm ✓ 10/10

3 mm —
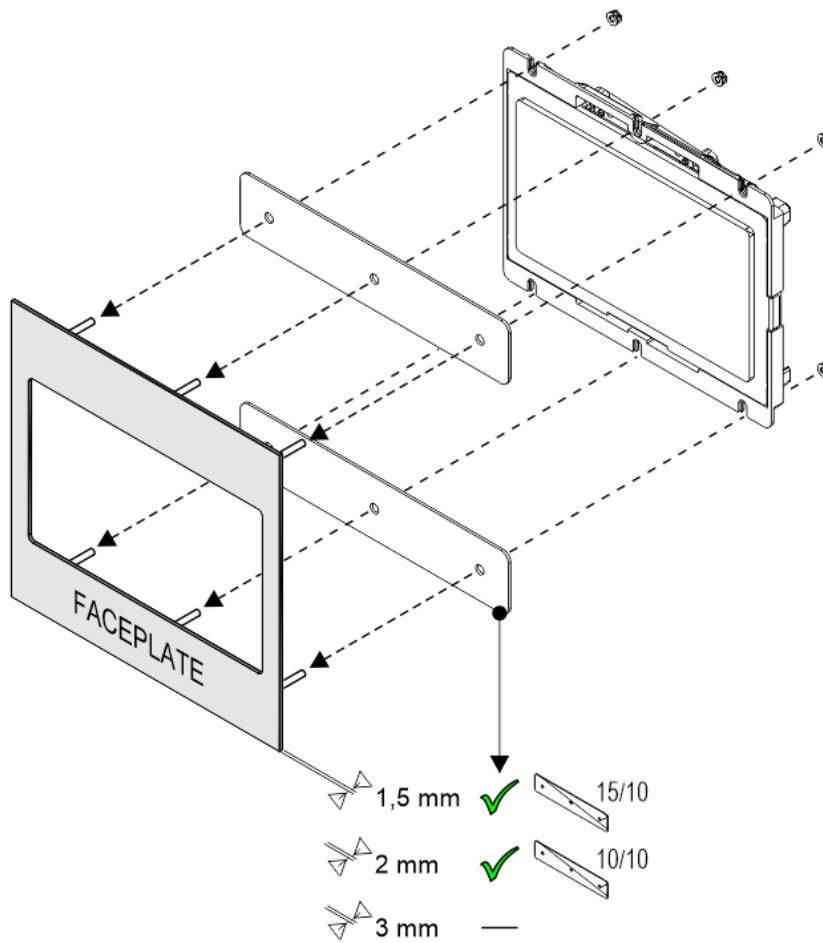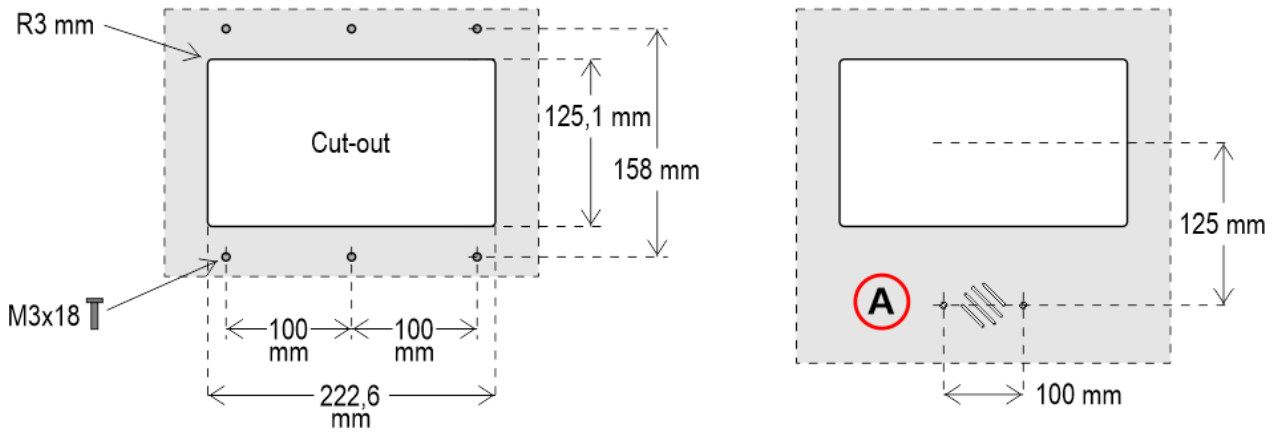
A) – ESYSPK2 external speaker (option)

⊖ Giotto Retrofit

Frontal mounted version for retrofitting, same cut-out of D67 position indicator.

D67 cut-out

Giotto 5,6"

134 x 134 mm

1	1	1	2
SCREEN	DISPLAY	FIXING SUPPORT	SCREWS

1

TRANSPARENT

BLACK

2

PUSH
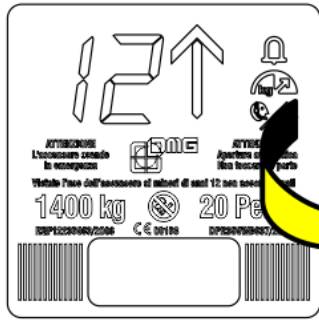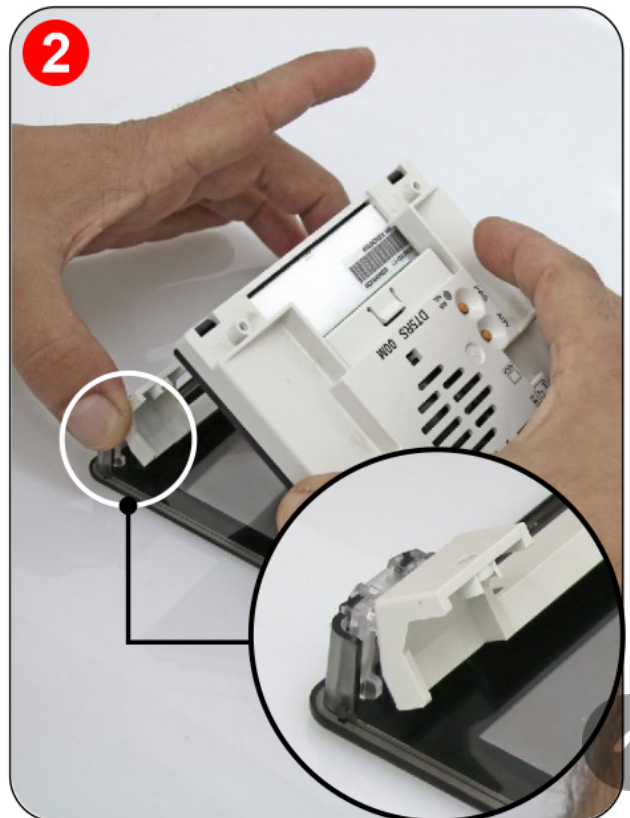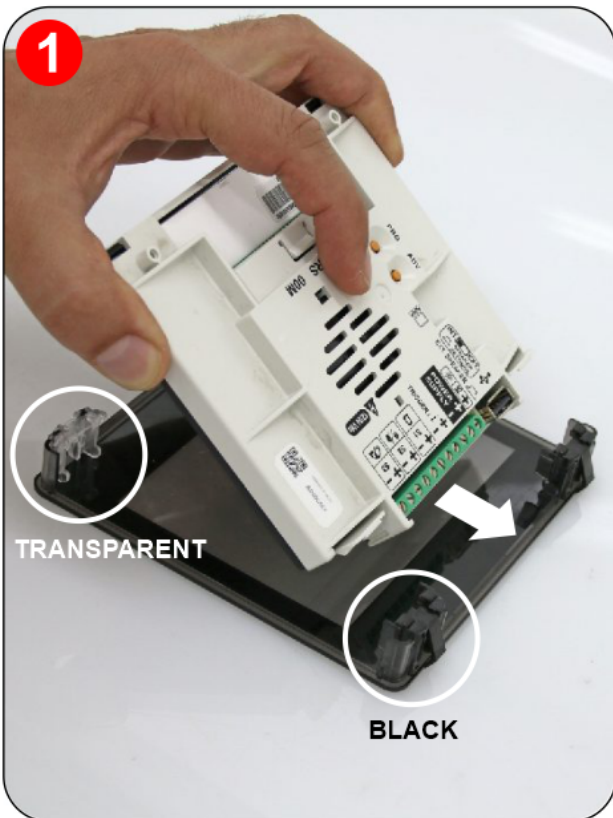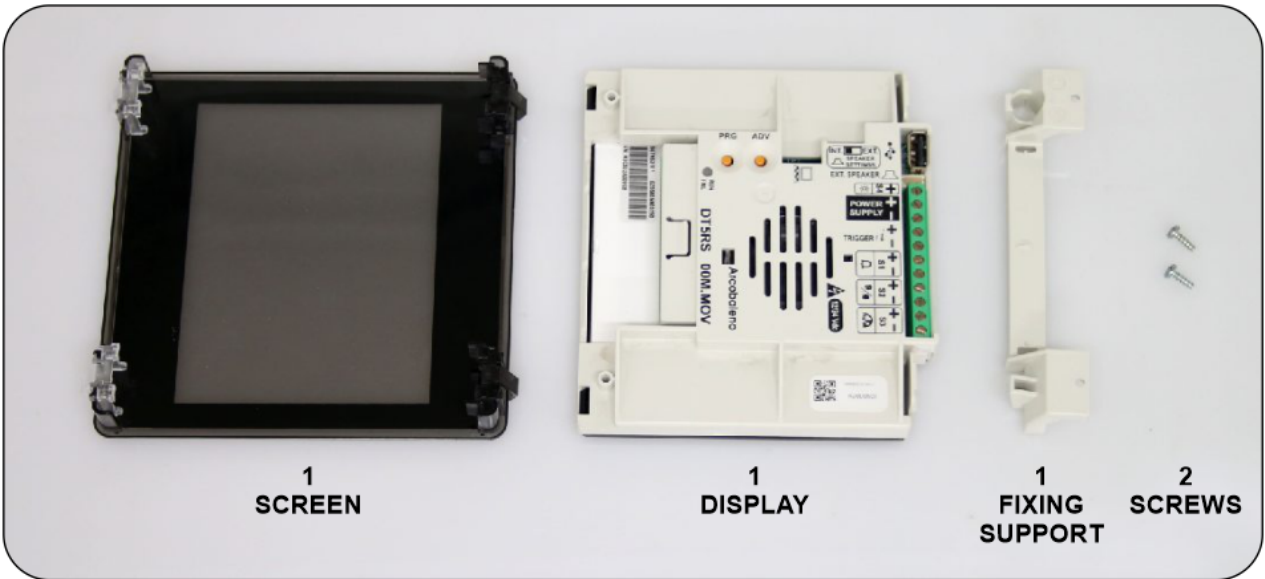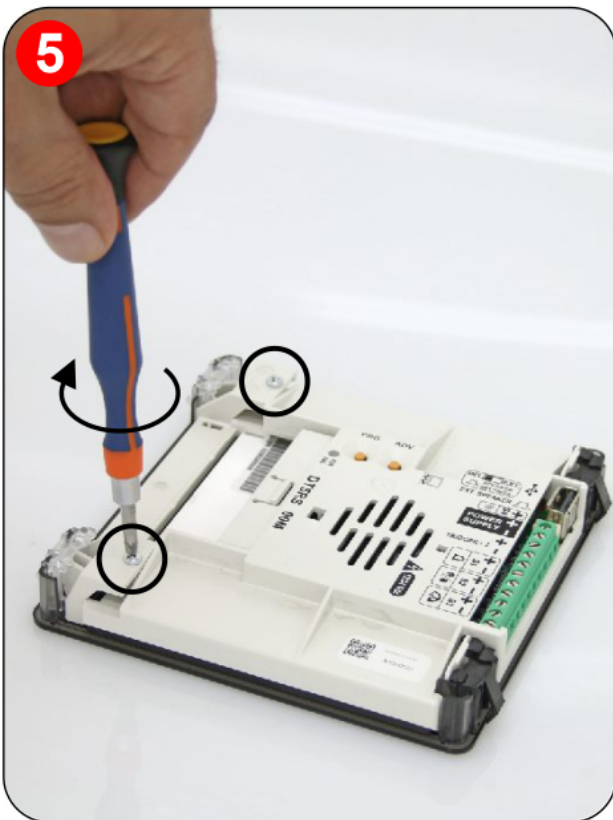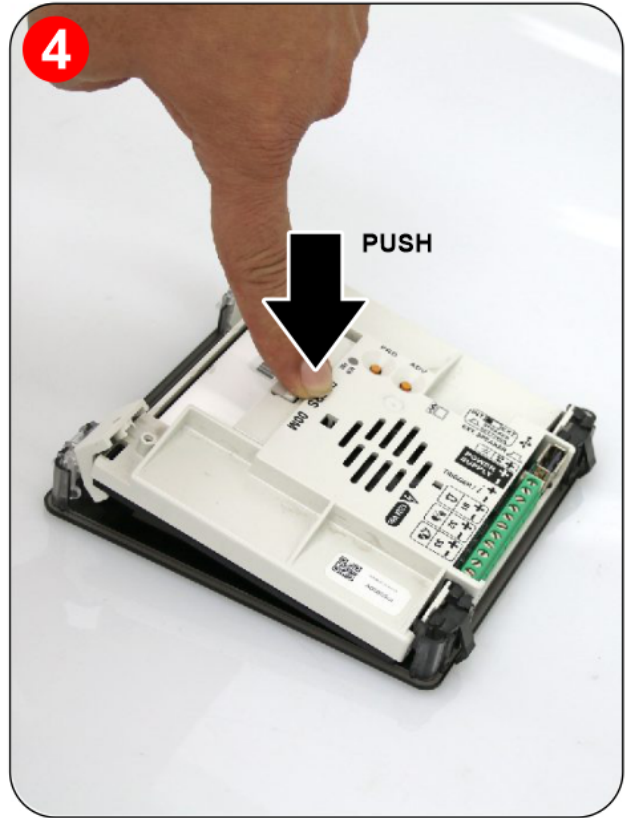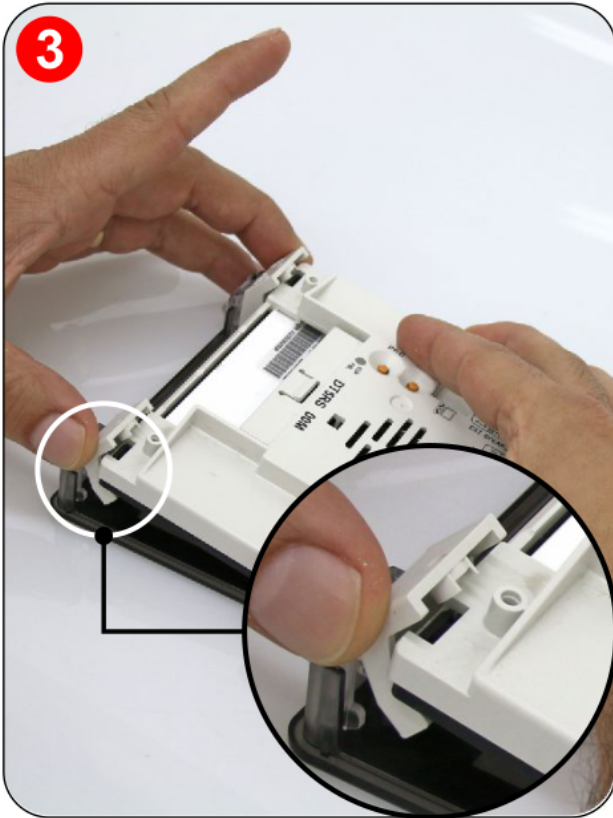
Wiring Instructions

POSITION & DIRECTION Input Wiring

Pitagora 4.0

DMG CAN serial protocol

CAR
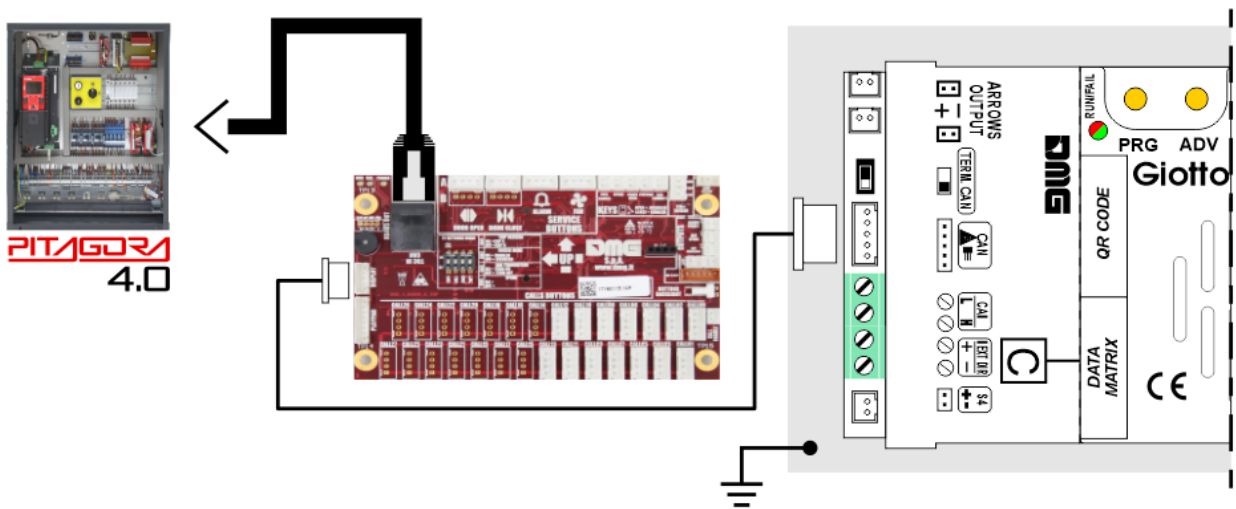
FLOOR
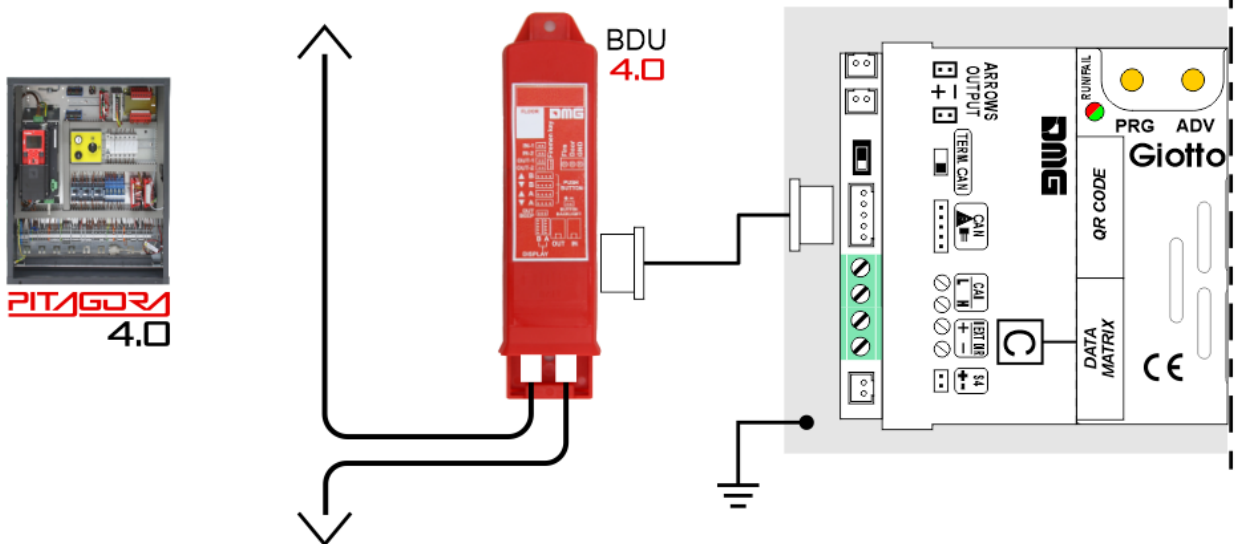
DMG
3-wires serial
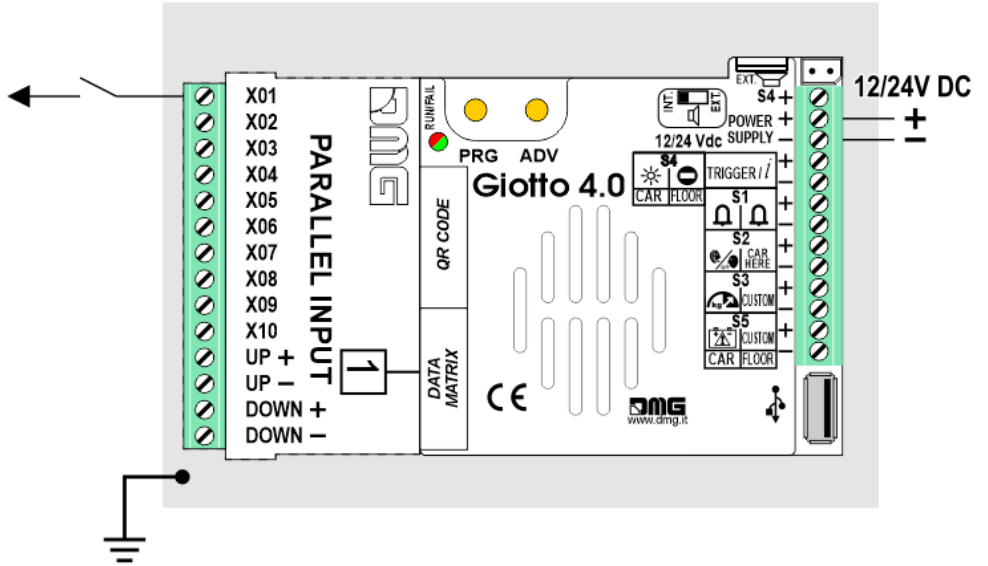
Pitagora V3

CAR
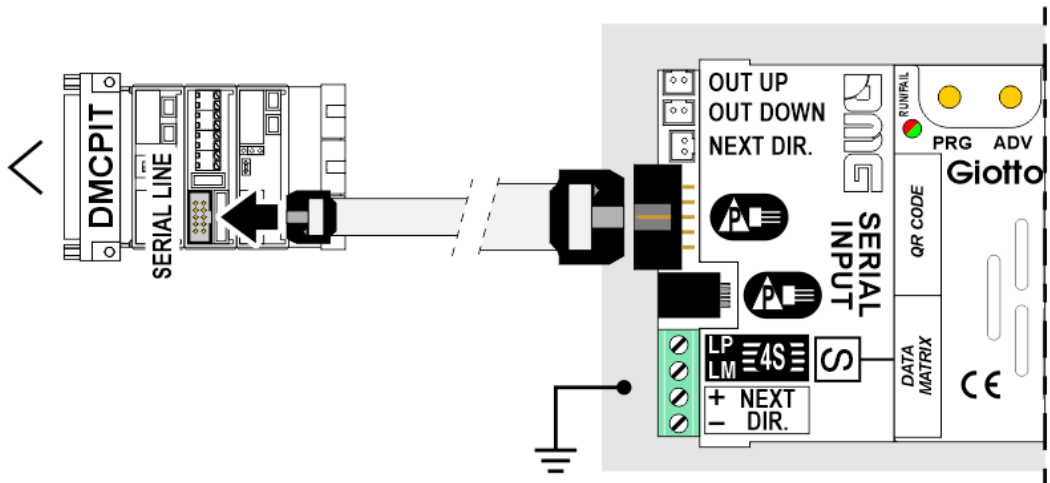
FLOOR
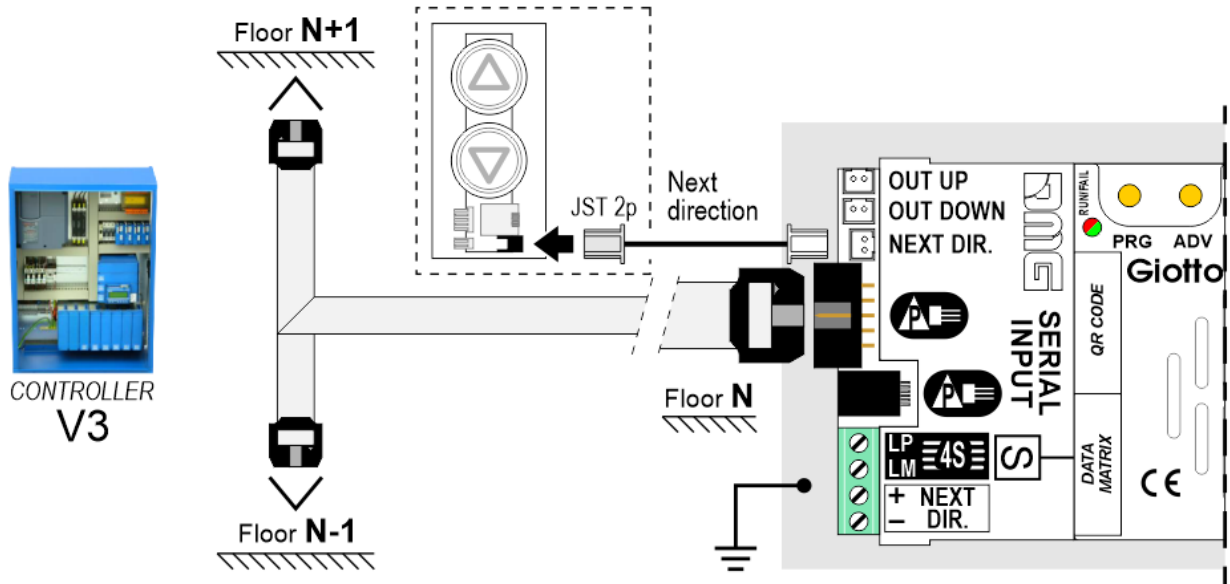
Encoder DEUM

For more details please refer to the Encoder DEUM support page

DMG
CAN serial protocol
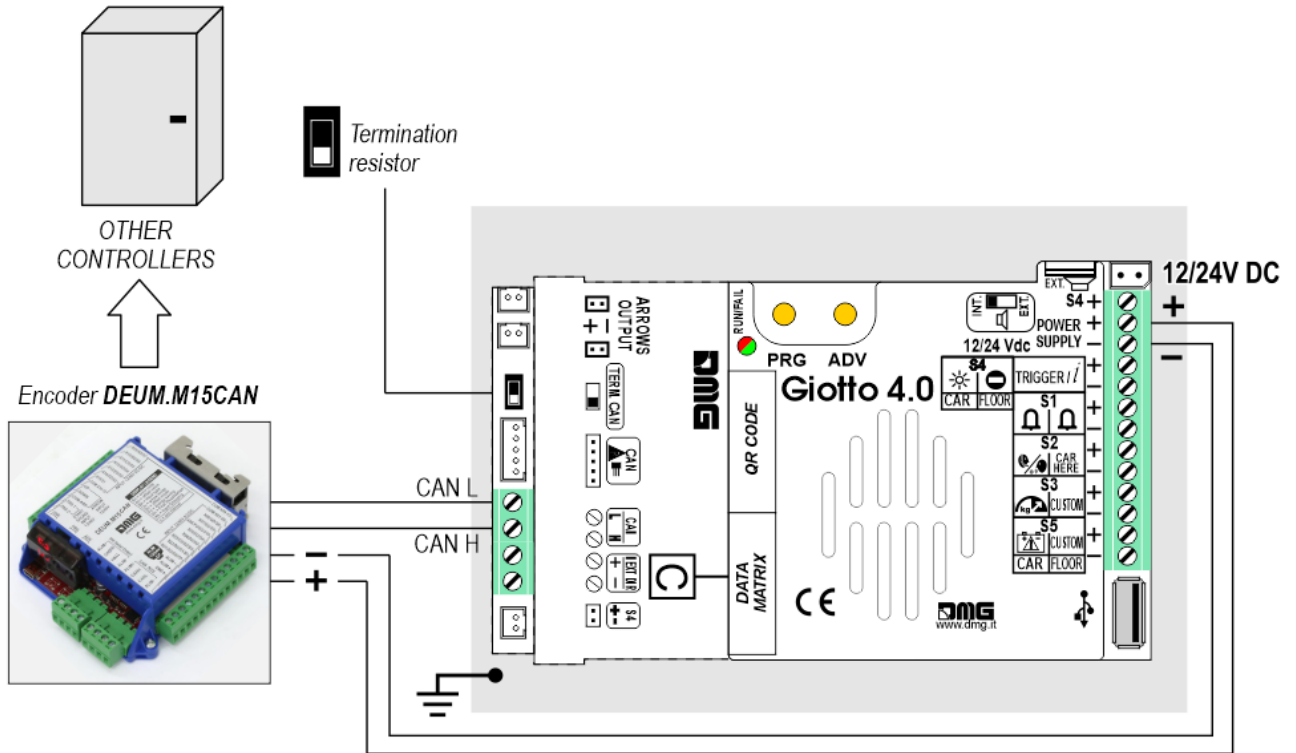
DMG
3-wires serial
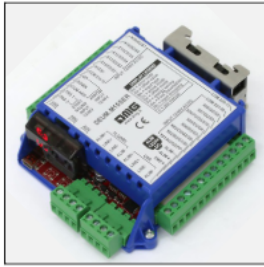
Encoder *DEUM.M15CAN*
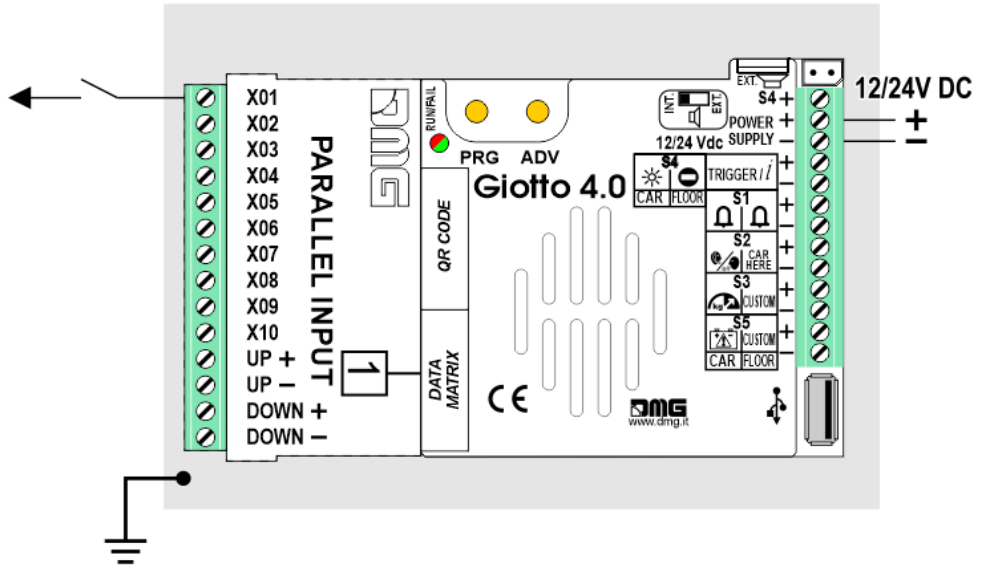
RS485 serial

CAR
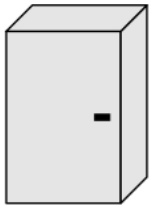
OTHER
CONTROLLERS

Encoder *DEUM.M15SER*
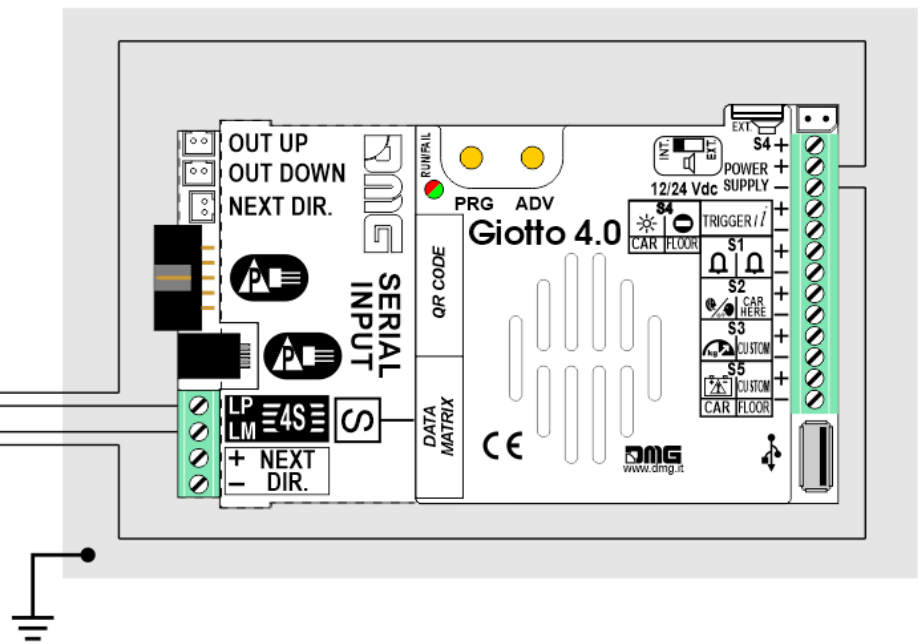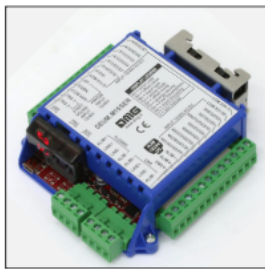
FLOOR
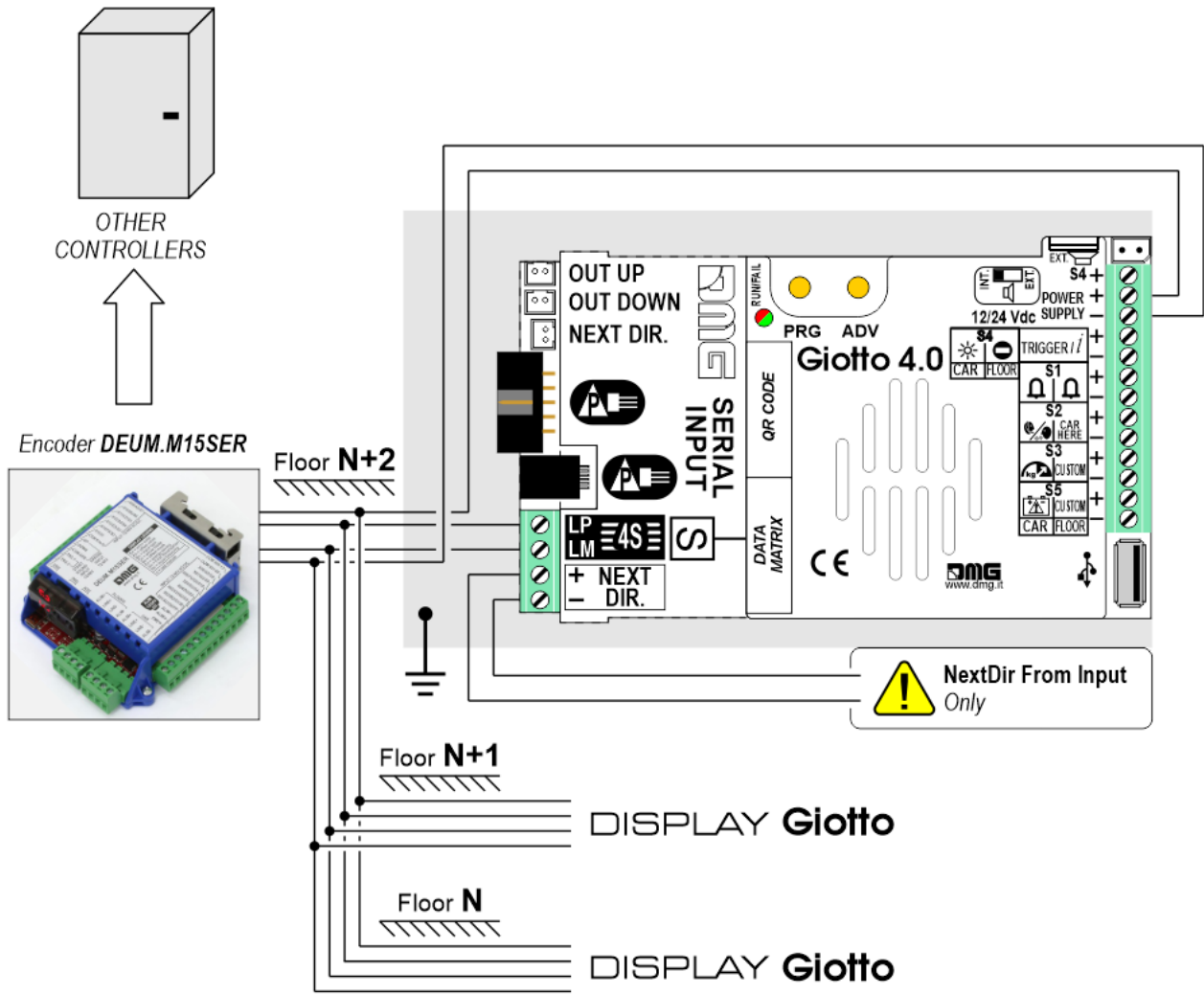
Autonomous Positioning System

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 lift control panel. The interface uses the sensors signals installed on the top of the elevator car.

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

If NOT availale, you have to install:

• 1 NO magnetic sensor on the cabin + 1 magnet at every floors for counting position.
• 1 NO/NC 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 floor position indicators.

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

Autonomous positioning system

Others Controllers

Proprietary CAN protocol
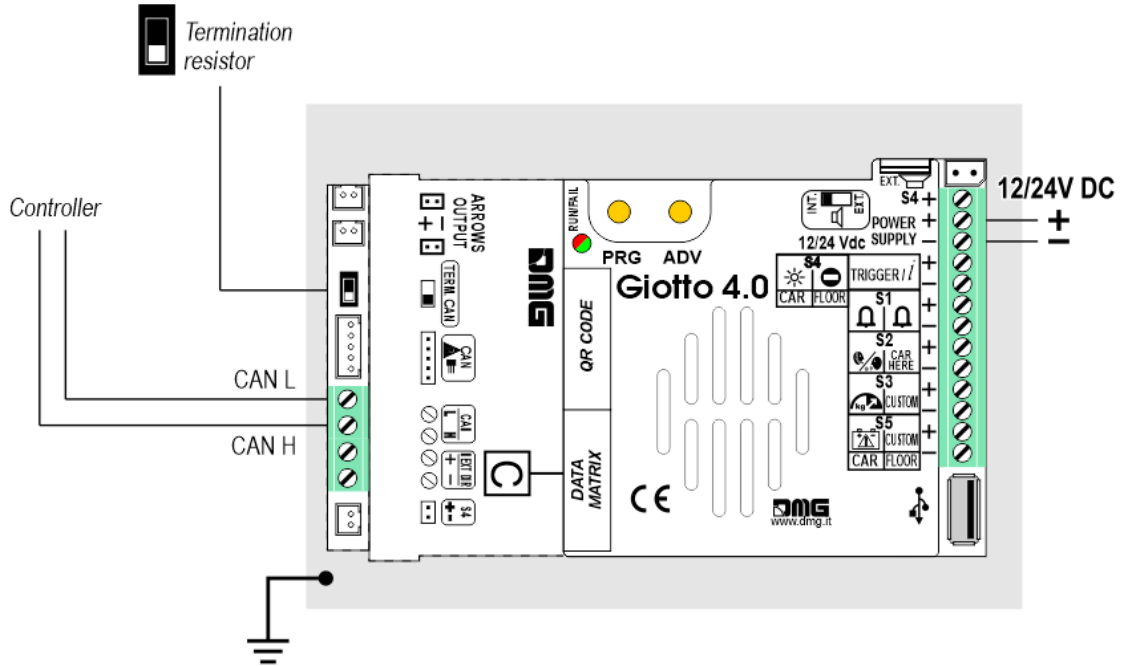
1 Wire / Floor
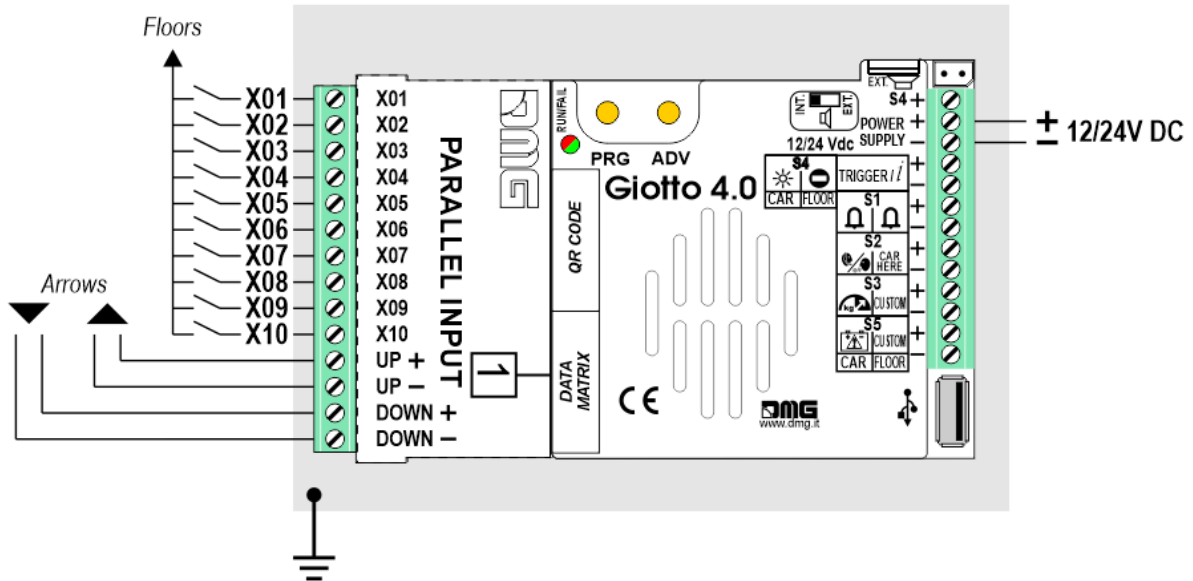
10 floors max.

1 Wire / Segment
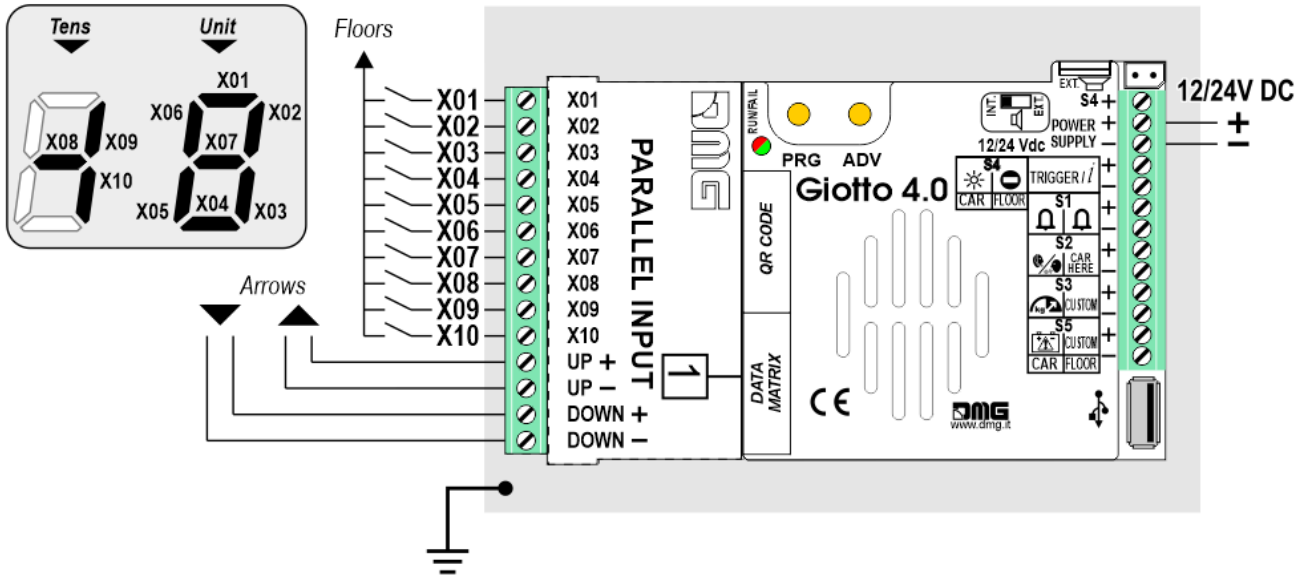
⚠️ 29 floors max. (-9, 0, 19)

Gray / Binary

⚠️ 72 floors max. (-9, 0, 62)

TKE/MEA/Autinor
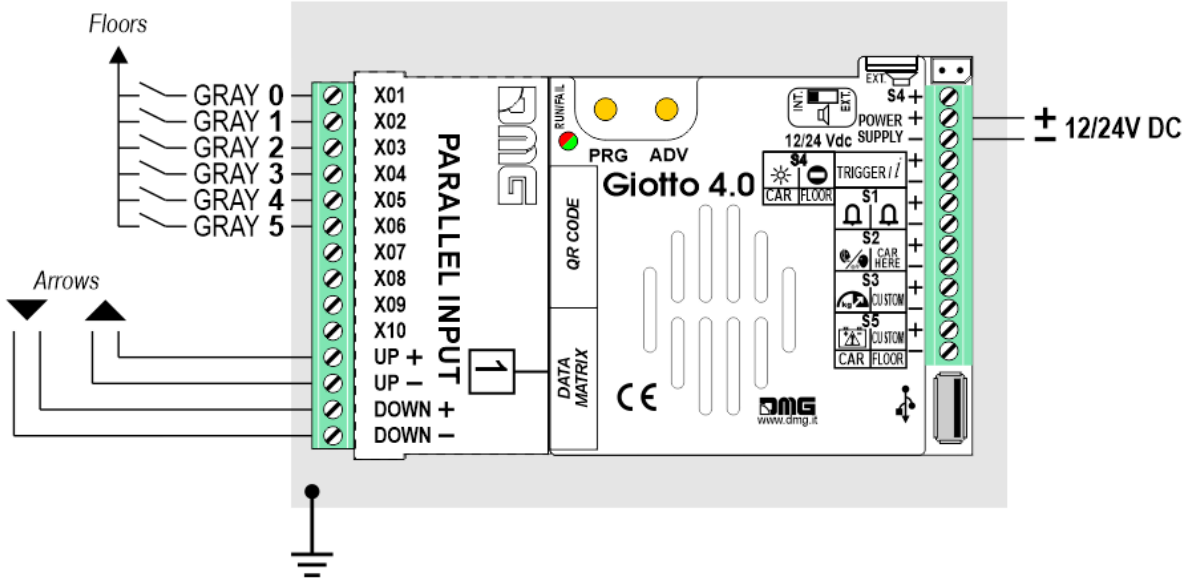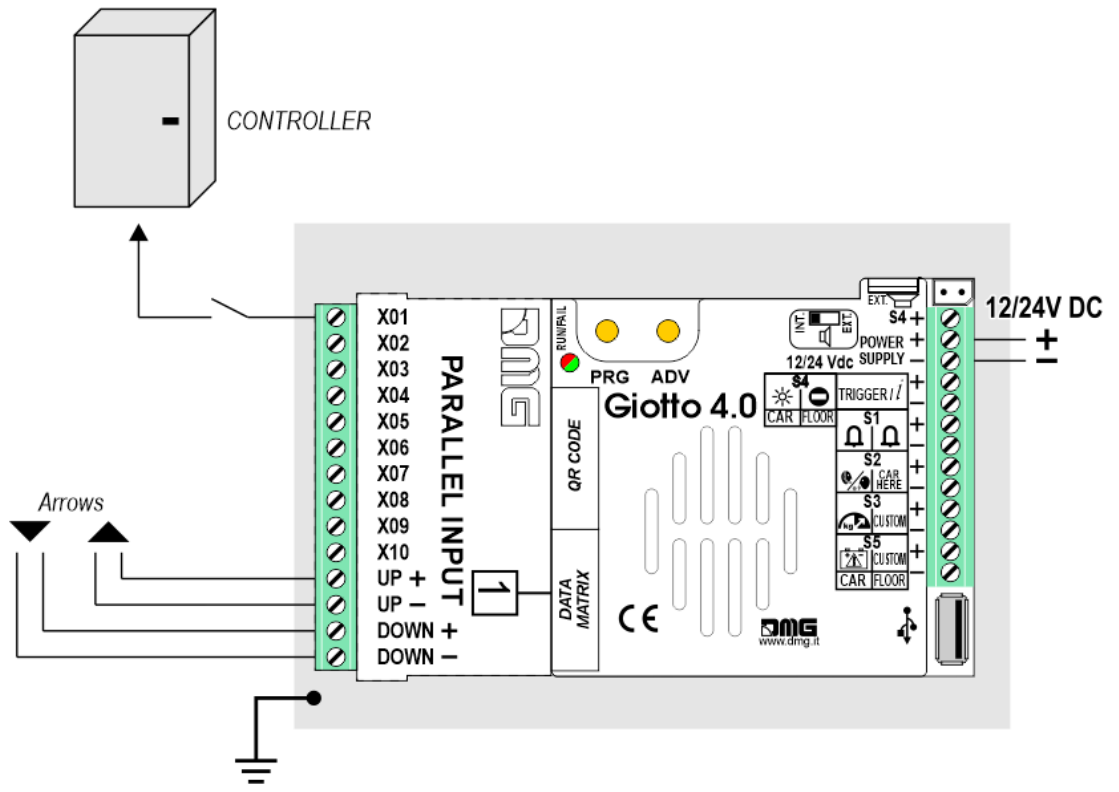
Service messages wiring

CAR

FLOOR

ℹ️
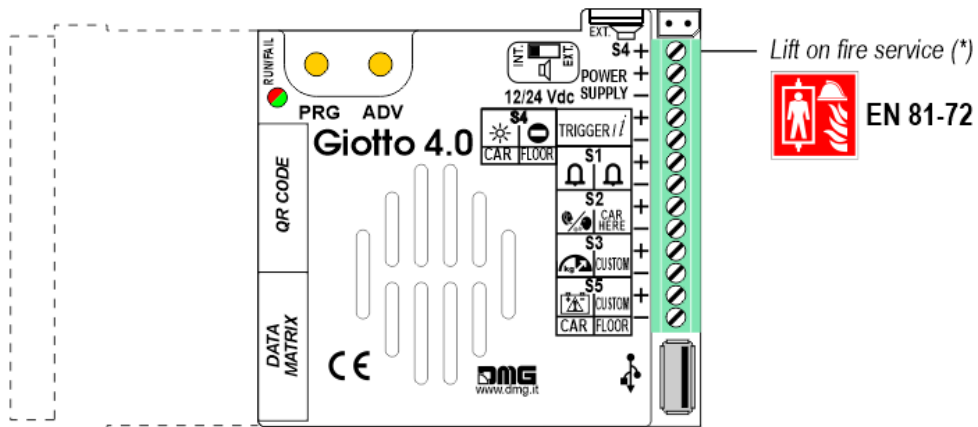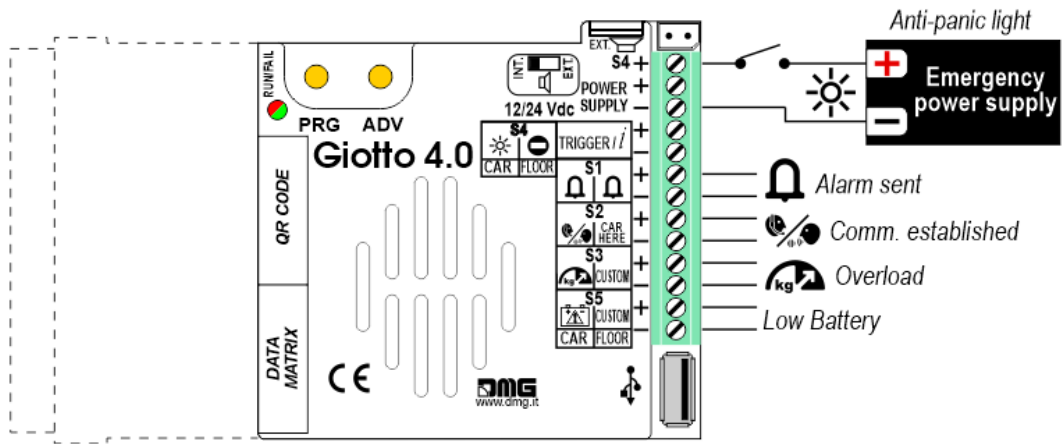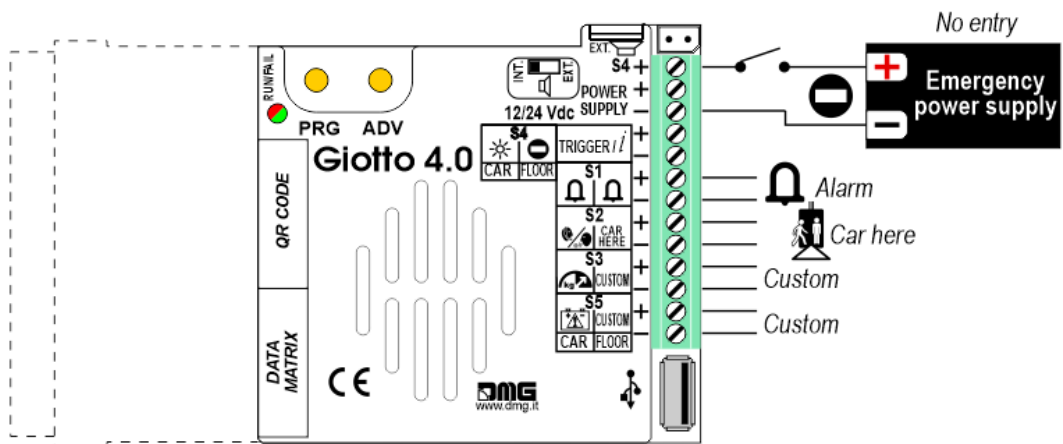
Service messages can also be piloted, through serial bus, in two different ways:

- by controller DMG
- by encoder DEUM.M15

TRIGGER Wiring

This input triggers the gong.
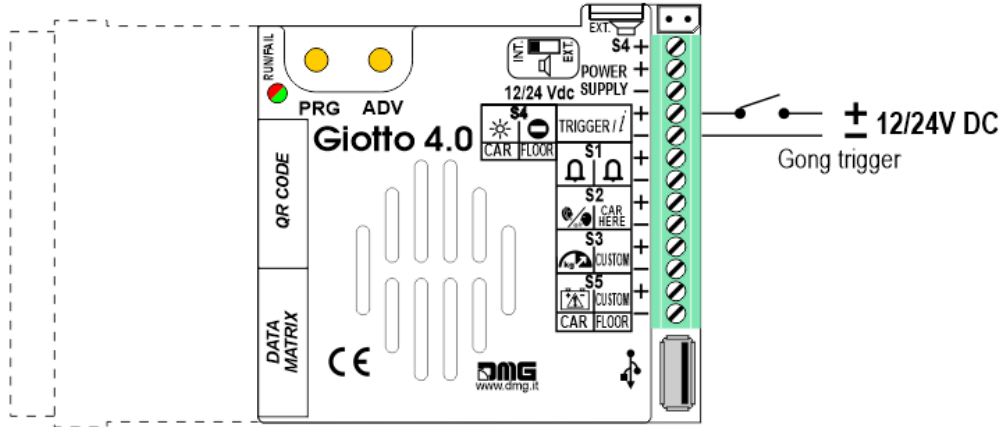
⚠️ If piloting is driven by DEUM ENCODER, a direct connection between the TRIGGER command and the Encoder is suggested.

External speaker wiring (recommended for the speech synthesizer function)
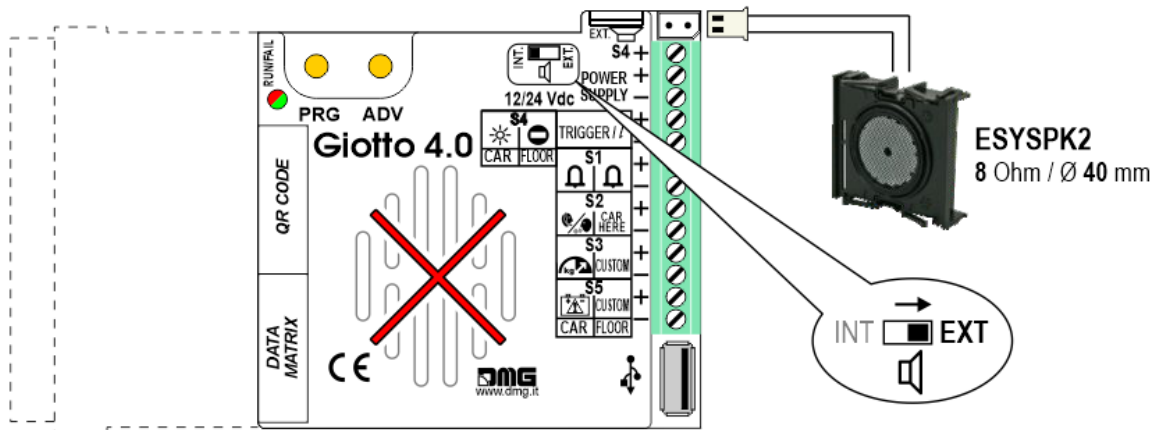
External arrows wiring
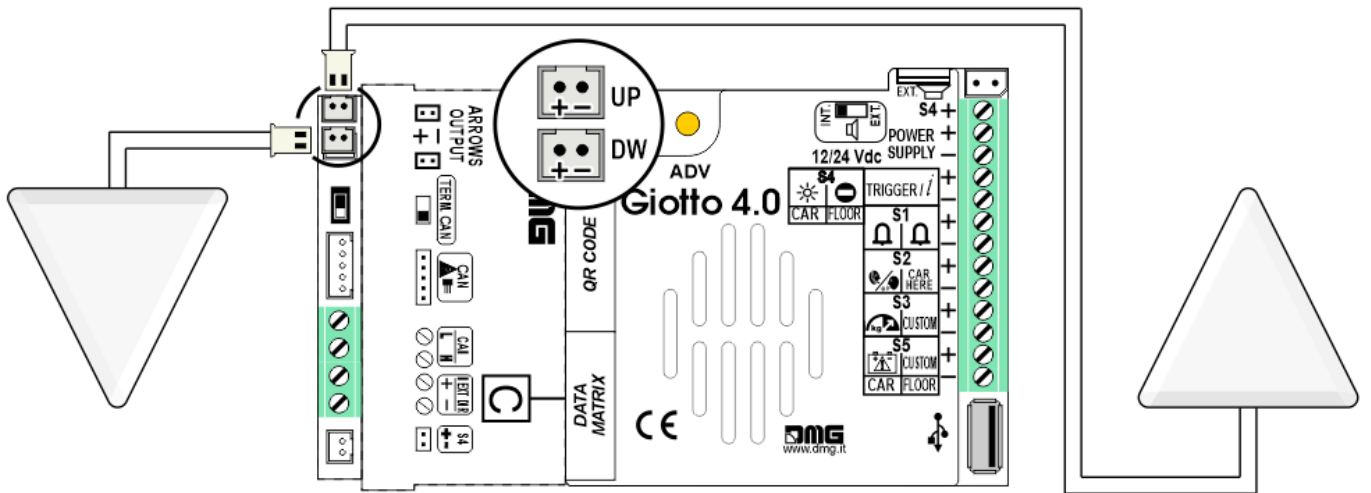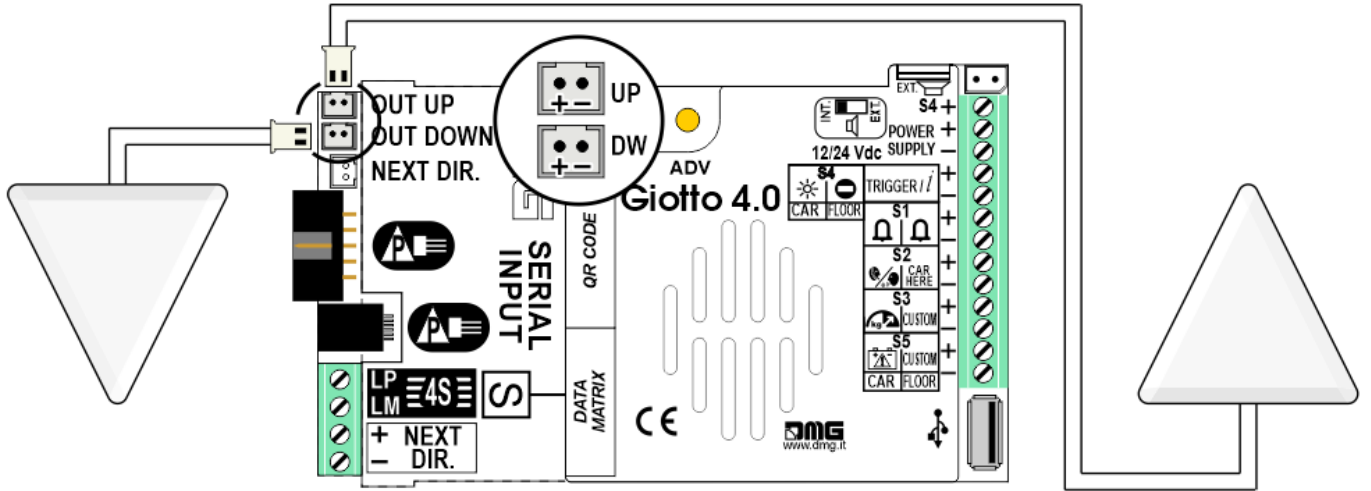
✓ *MENU > Options > Graphic Options > Arrows > **Hide***

Settings

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

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		
				Serial / Pitagora	Parallel	CANBUS
Input			Serial / 1 wire per floor / segment Gray / Binary / Pos.Sensor TKE / MEA / Autinor / CAN DMG	•	•	•
Audio Settings	Volume (Gong, floor message, etc.)		0-OFF / 1-MIN / 2 / 3 / 4-MAX	•	•	•
	Trigger Delay		0, 1, ..., 30	•	•	•
	Message Sequence		Gong - Floor - Up/Down	•	•	•
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		•	
		Firefighters Operation	0 (Disabled) / 1 (Egress Floor) / 2 (Non-Egress Floor)	•	•	•
		Screensaver timer	Disabled / 10-20 / 30-60 / 60-120	•	•	•
	Graphic Options	Floor Symbols	Show / Hide	•	•	•
		Arrows	Show / Hide	•	•	•
		Floor Symbols with Signals	Show / Hide	•	•	•
		Arrows with Signals	Show / Hide	•	•	•
		Auto Centering	No / Yes	•	•	•
		Numbers alignment	Center / Left / Right	•	•	•
		Kerning	No / Yes	•	•	•

MENU	MENU ITEM		AVAILABLE CHOICES	INPUTS		
		Filter Blinking Signals	No / Yes	•	•	•
		Orientation	Landscape / Portrait	•	•	•
		S1-S5 inputs Configuration	Input S1 / ... / S5	•	•	•
		AUX Signals Configuration	AUX Signal 1 / 2 / 3 / 4	•	•	•
		Info Screen	On / Off	•	•	•
		Info Screen Tme	5s / 10s / 15s / 20s	•	•	•
		Date & Time Settings	No / Yes	•		•
	Reset All Settings			•	•	•
USB	Display -> USB / USB -> Display			•	•	•
	Aggiornamento firmware / Firmware update			•	•	•
?	DEMO mode		No / Yes	•	•	•
	Firmware Ver. / Config. Name / Debug Mode / Life Time (internal use)			•	•	•
Floor Settings	Floor Image		Choose the Images	•	•	•
	Floor Audio		No / Audio slot 0 / ... / slot 19	•	•	•
	Floor Symbols		Choose the Symbols		•	

Adjusting audio level
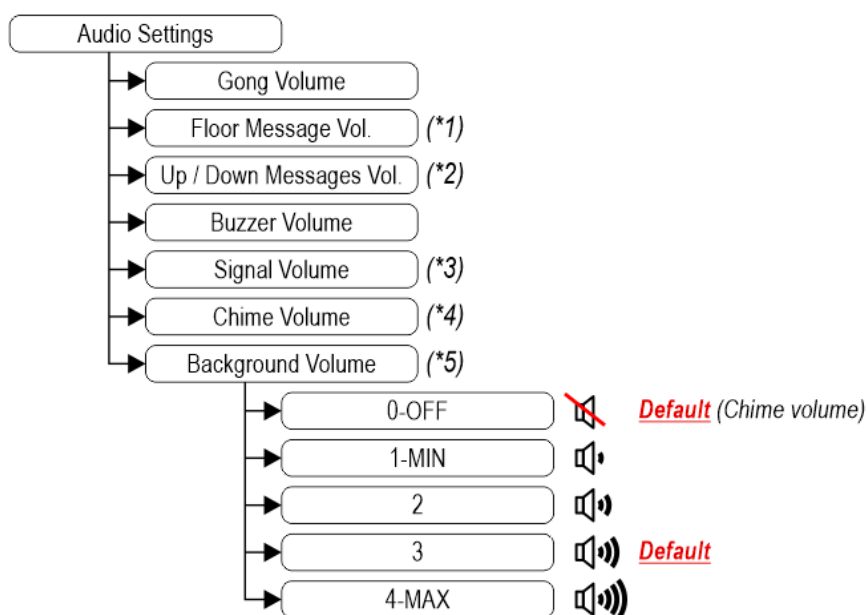
(*) Speech synthesizer version only, to adjust:

(*1) Messages volume (floor)

(*2) Direction messages volume

(*3) Volume of signals

(*4) Notice of change floor

(*5) Background volume

Set up audio messages playback delay

```
Audio Settings
    └──▶ Trigger Delay
              ├──▶ 0 = Disabled        Default
              ├──▶ 1 = 100 ms
              │     ......
              └──▶ 30 = 3000 ms (3s.)
```

Set up audio messages playback order

```
Audio Settings
    └──▶ Message Sequence
              ├──▶ Gong - Floor - Up/Down
              └──▶ Floor - Gong - Up/Down
```
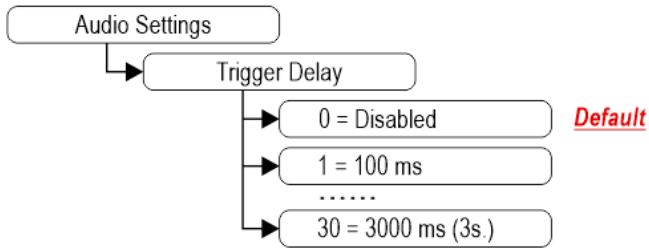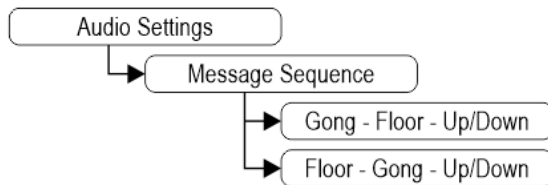
Speech synthesizer version only

Set up Giotto as elevator car indicator or floor indicator

```
Options
    └──▶ Interface Options
              └──▶ Display Configuration
                        ├──▶ 1) - COP
                        └──▶ 2) - LIP / LOP
```
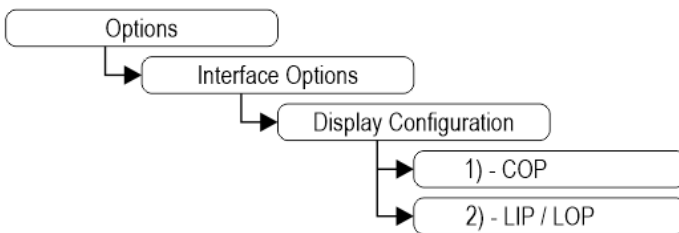
1) – Elevator car Position Indicator (default)

2) – Hall Position Indicator

Arrow setting up

```
Options
    └──▶ Interface Options
              └──▶ Arrows Configuration
                        ├──▶ 1) - Direction   (Default)
                        └──▶ 2) - Next Direction
```
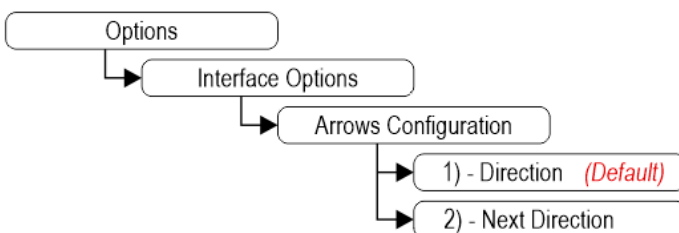
1) – Direction arrows (default)

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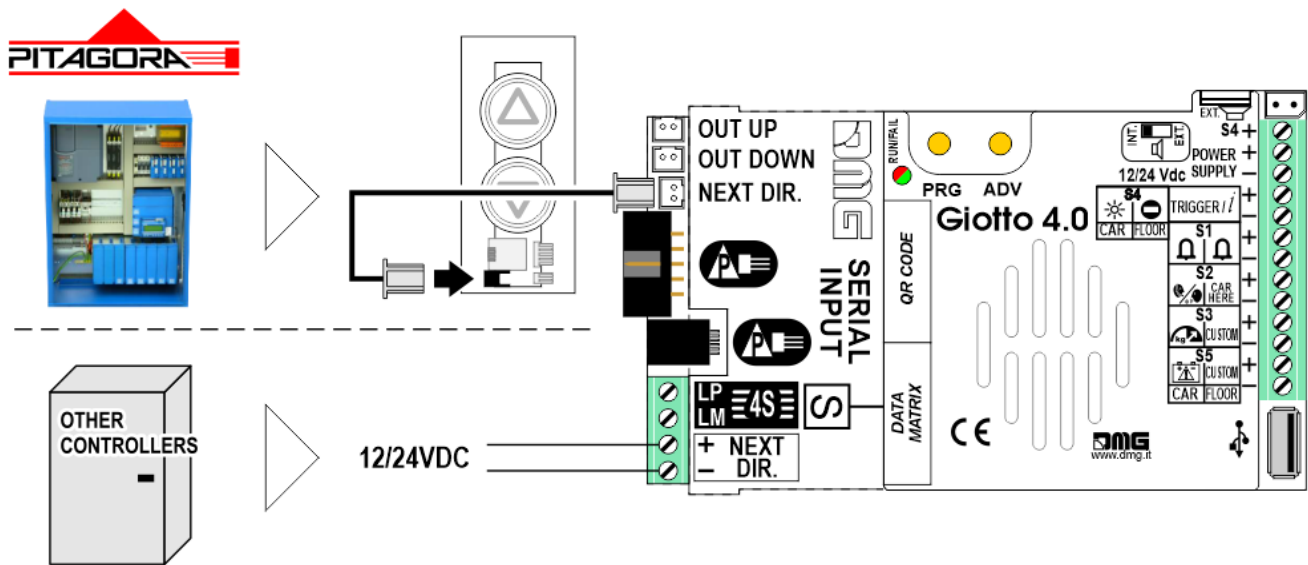
If the DEUM Encoder is used, please refer to the relevant manual

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 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 Floor **3** ⟷

2 **3** CAR

3 👁 **3** ✓

4 **3** ← Magnet | 3 sec. **3** | **E0** →
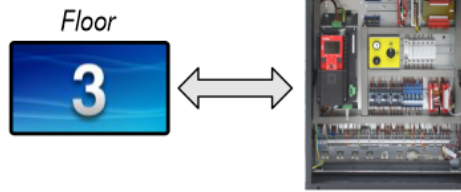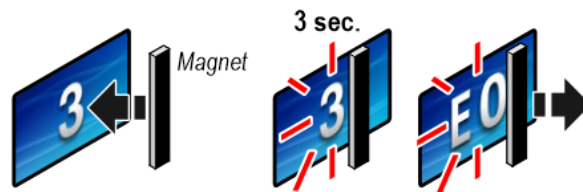
⚠️ If the DEUM Encoder is used, please refer to the relevant manual

➖ **Enable signal of "Car at Floor" from "NEXT DIR." input**

Options → **Interface Options** → **Display Configuration** → COP / **LIP / LOP**

Car at Floor → No / **Yes**

Car at floor

PITAGORA

OUT UP
OUT DOWN
NEXT DIR.

SERIAL INPUT

LP LM 4S S
+ NEXT
− DIR.

ARROWS OUTPUT
TERM. CAN
CAN
CAT
NEXT DIR.
4S

NEXT DIR.

Car at floor

Car at floor
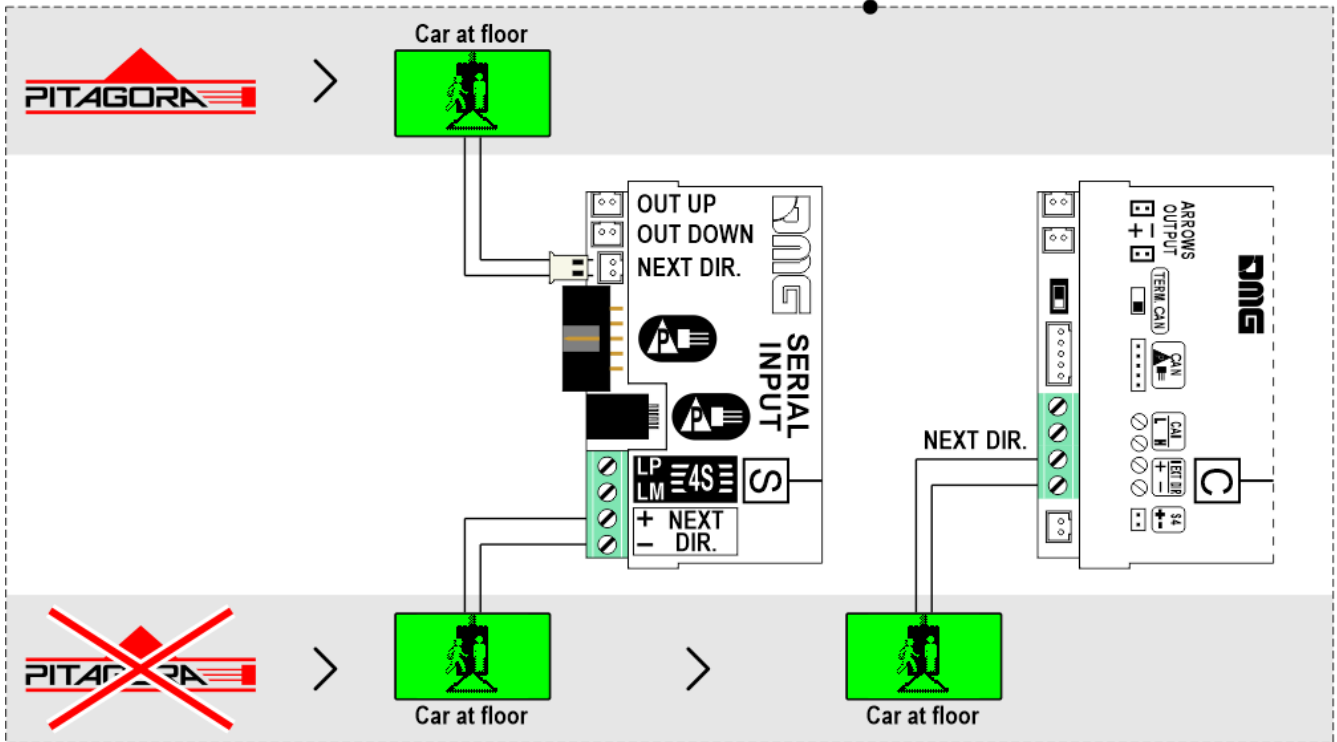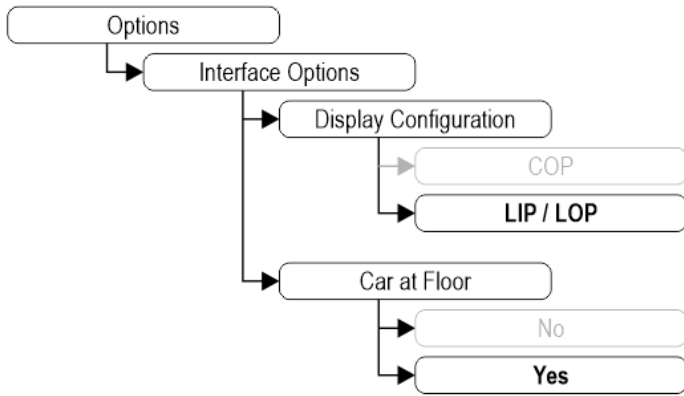
⊖ **Set up the gong to be independent from arrows**

Options → **Interface Options** → **Gong with no Arrows**

No *Default*   Gong 🔒 Arrows
Yes   Gong 🔓 Arrows
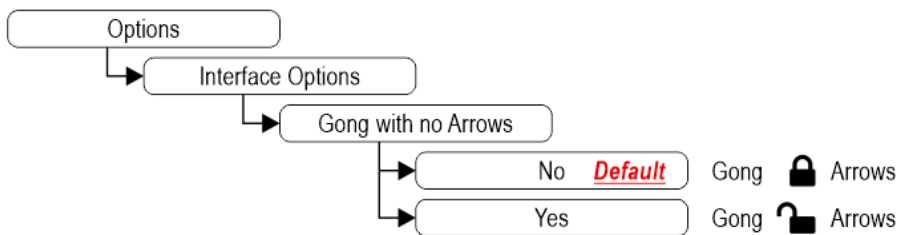
⊖ **Set up CAN BUS protocol transmission speed**

```
Options
   └─▶ Interface Options
          └─▶ CAN Baudrate
                 ├─▶ 250 k
                 ├─▶ 125 k
                 ├─▶ 10 k
                 └─▶ AUTO  Default
```
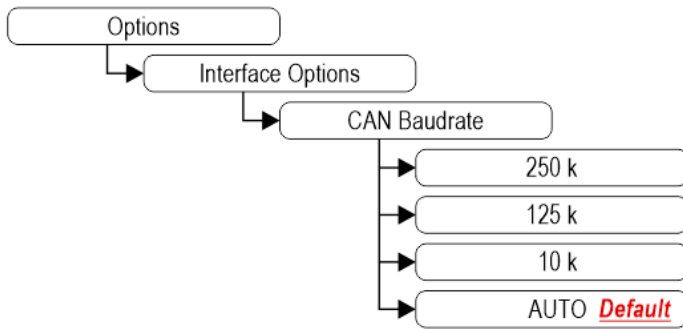
⊖ Intermediate floors visualization

```
Options
   └─▶ Interface Options
          └─▶ Convert Mezzanine       Default ──●  2½ ↑
                 ├─▶ No
                 └─▶ Yes ────────────────────●  2/3 ↑
```

⊖ Set up floors OFFSET

```
Options
   └─▶ Interface Options
          └─▶ Offset Value
                 ├─▶ +                              +9
                 ├─▶ 0      Default ───── 0
                 └─▶ —                              -9
```

⊖ Set up first visualization

```
Options
   └─▶ Interface Options
          └─▶ First Visualization ────────●       Default
                 ├─▶ 1) - Blank
                 └─▶ 2) - Zero ──────────●   0
```
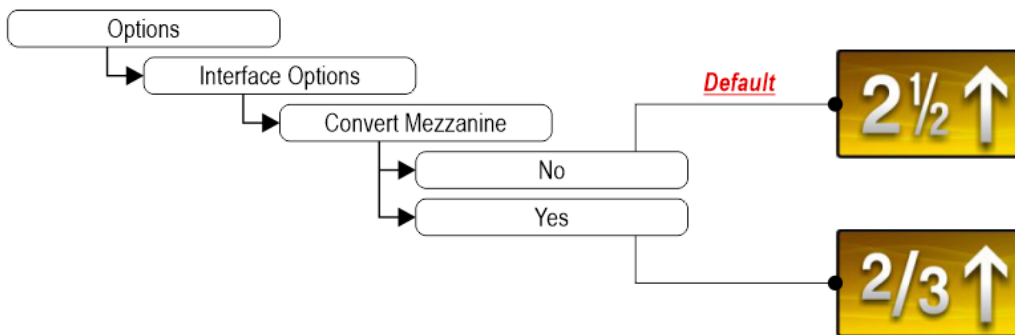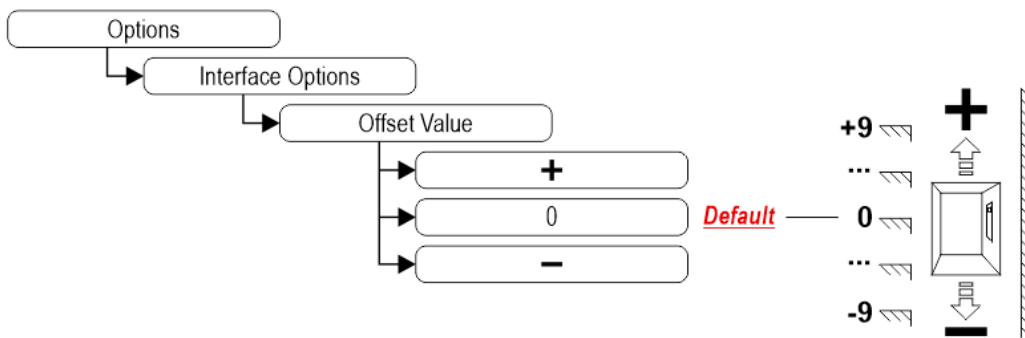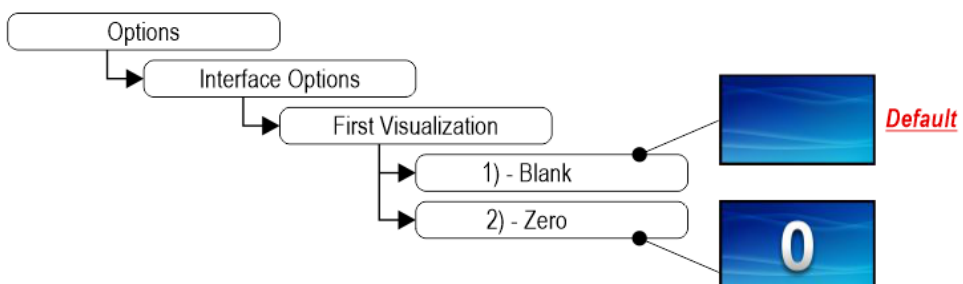
1) – It does not display any numbers
2) – Lowest floor

⊖ Set up the common of the position parallel inputs

```
┌─────────────┐
│ Options     │
└─────────────┘
     └──►┌──────────────────┐
         │ Interface Options│
         └──────────────────┘
              └──►┌──────────────────┐
                  │ Common Selection │
                  └──────────────────┘
                       ├──►┌──────────────┐    ━━  *Default*
                       │   │  Negative    │
                       │   └──────────────┘
                       └──►┌──────────────┐    ✚
                           │  Positive    │
                           └──────────────┘
```

⊖ Set up scrolling arrows

```
┌─────────────┐
│ Options     │
└─────────────┘
     └──►┌──────────────────┐
         │ Interface Options│                  *Default*   ┌──────┐
         └──────────────────┘                              │ 2 ↑  │
              └──►┌──────────────┐                         └──────┘
                  │  Arrow Type  │
                  └──────────────┘
                       ├──►┌───────────────────┐
                       │   │ 1) - Fixed arrows │
                       │   └───────────────────┘
                       └──►┌───────────────────────┐
                           │ 2) - Scrolling arrows │         ┌──────┐
                           └───────────────────────┘         │ 2 ↑  │
                                                             └──────┘
```
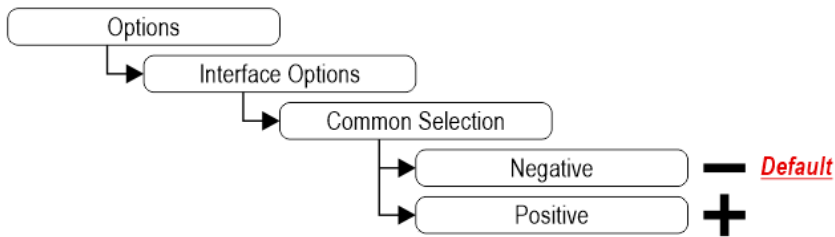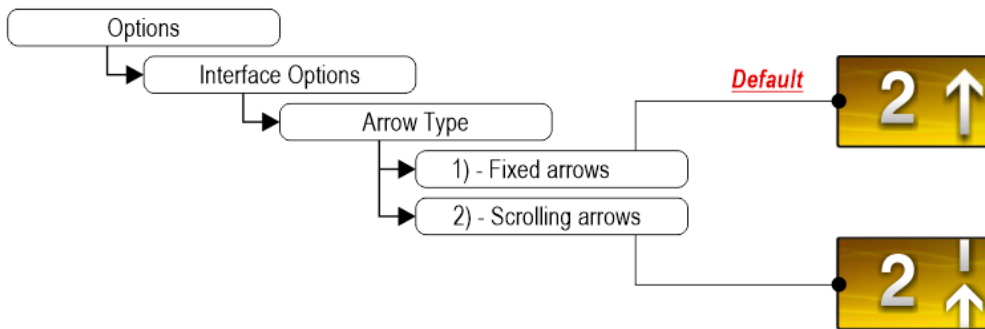
1) – Fixed arrows

2) – Scrolling arrows

⊖ Enable signals auxiliary

```
┌─────────────┐
│ Options     │
└─────────────┘
     └──►┌──────────────────┐
         │ Interface Options│
         └──────────────────┘
              └──►┌──────────────────┐
                  │ Enable AUX Signals│
                  └──────────────────┘
                       ├──►┌────────────────────┐
                       │   │ a) -   10 + 0  *Default*│
                       │   └────────────────────┘
                       └──►┌────────────────────┐
                           │ b) -    6 + 4      │
                           └────────────────────┘
```
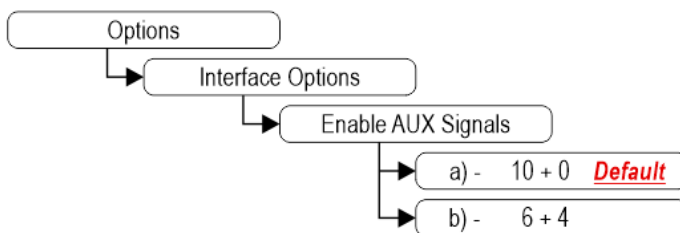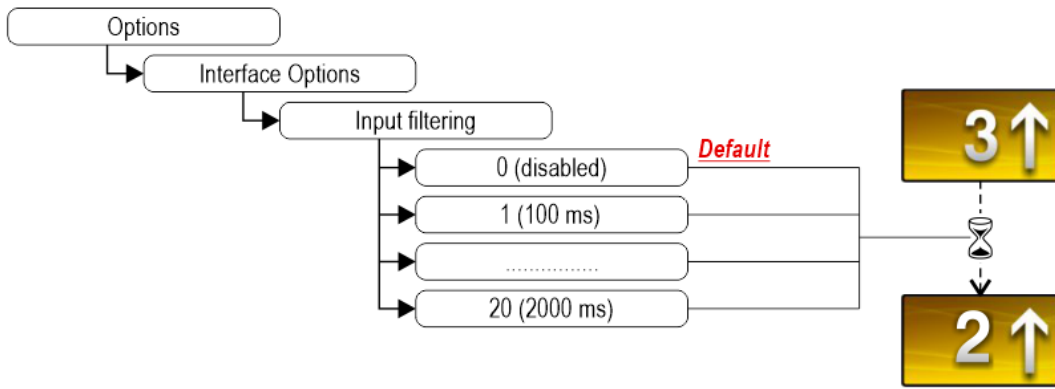
a) – 10 Floor parallel inputs (X01÷X10) + 0 AUX Signals

b) – 6 Floor parallel inputs (X01÷X06) + 4 AUX Signals (X07÷X10)
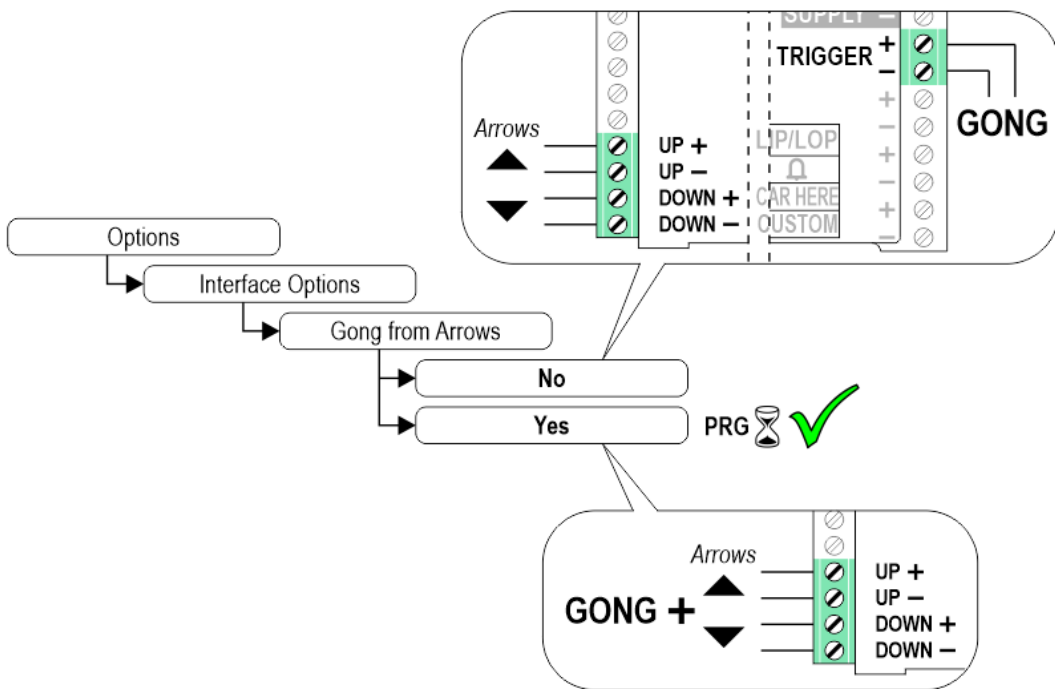
⊖ Set up the display delay of floor change

The display delay helps avoiding visualization errors during floor change.
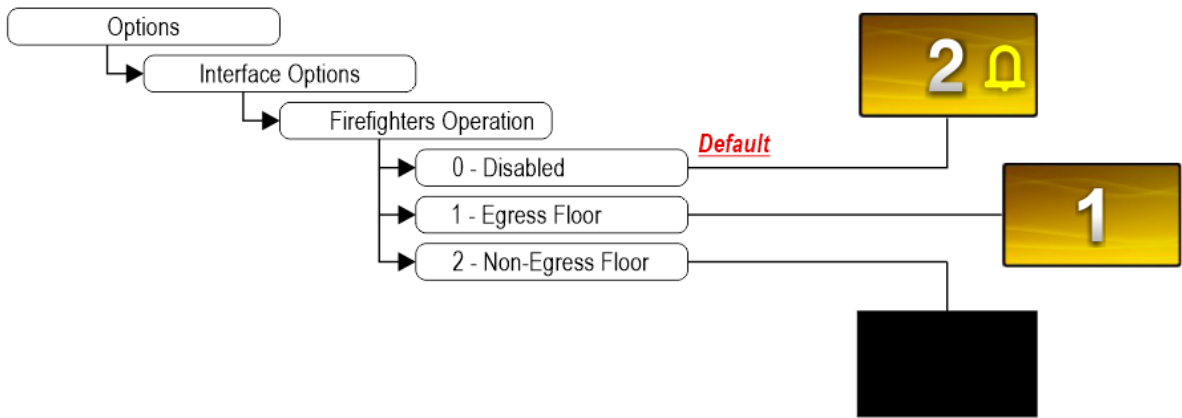
Enable Gong from arrow input

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

Enable the Firefighters Operation parameter

This parameter allows to set the display during the "firefighter operation" mode. The parameter is always visible, but its operation is active only if the display is set as LIP/LOP.
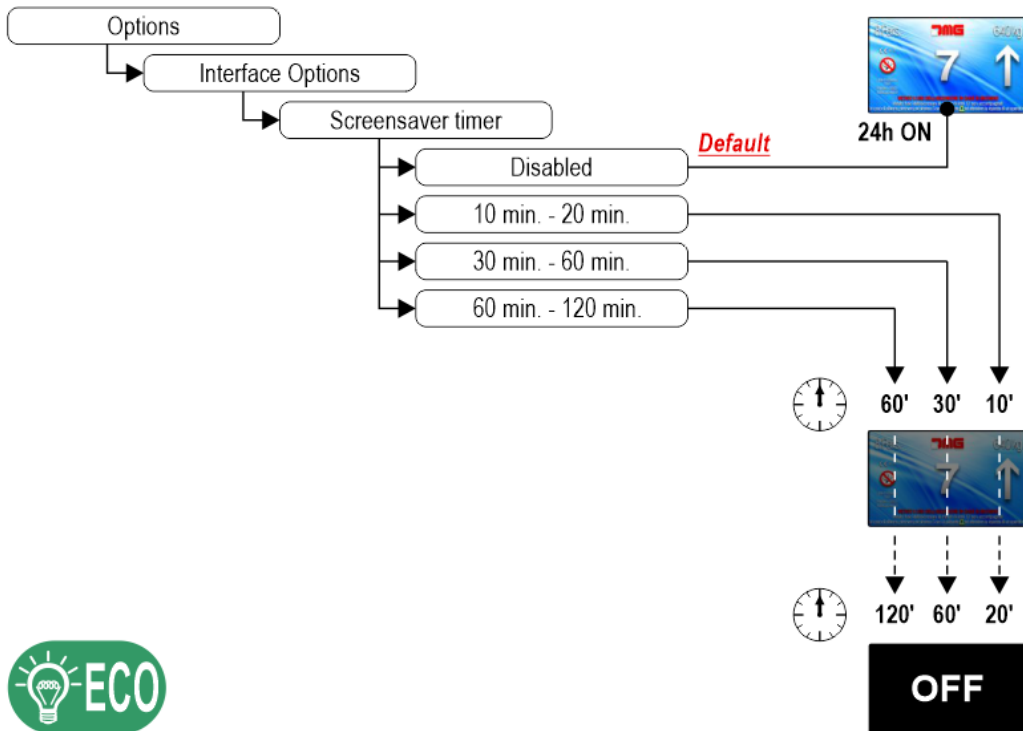
0 (DISABLED): Normal operation.

1 (EGRESS_FLOOR): When in firefighter function, the display only shows the symbols of floors.

2 (NON-EGRESS_FLOOR): When in firefighter function, the display the display goes dark.

Enable energy saving function

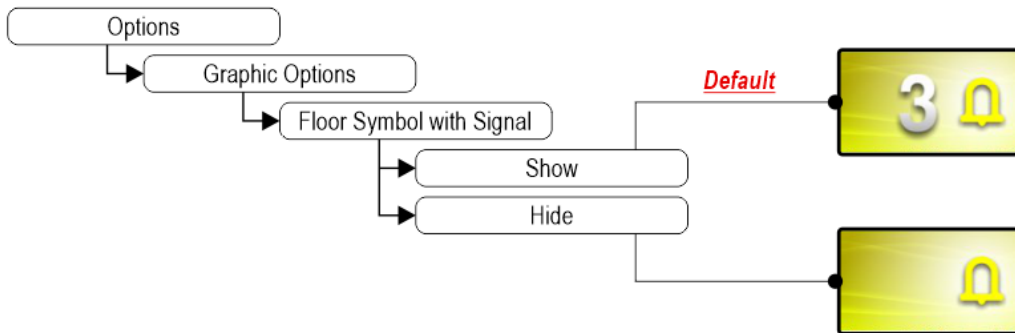*"Energy saving" mode to reduce consumption when idle.*

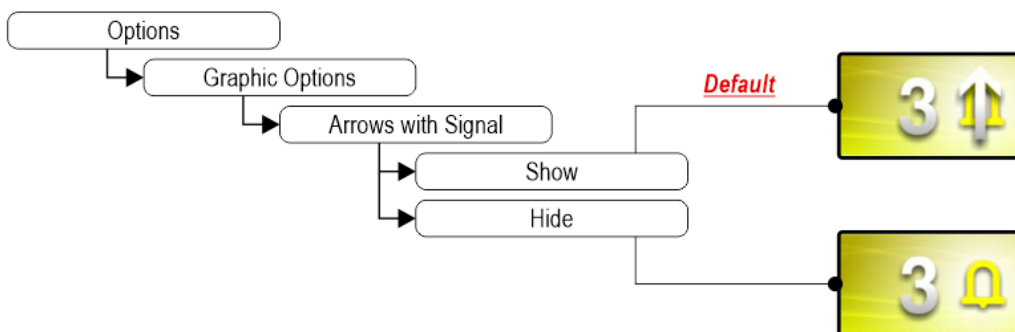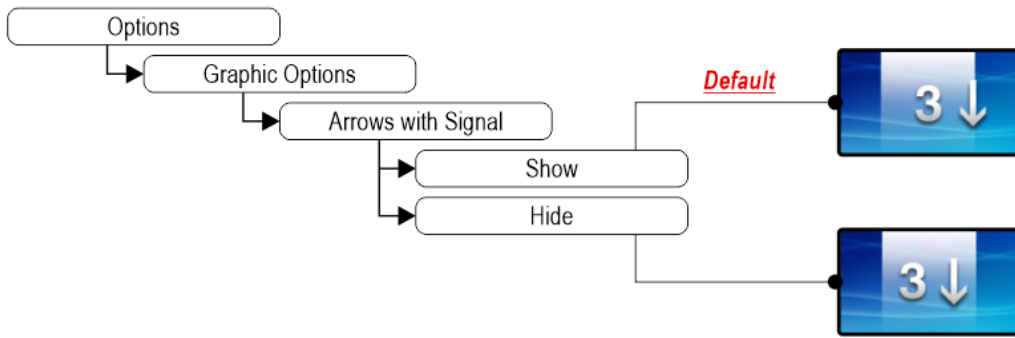## Show/Hide position
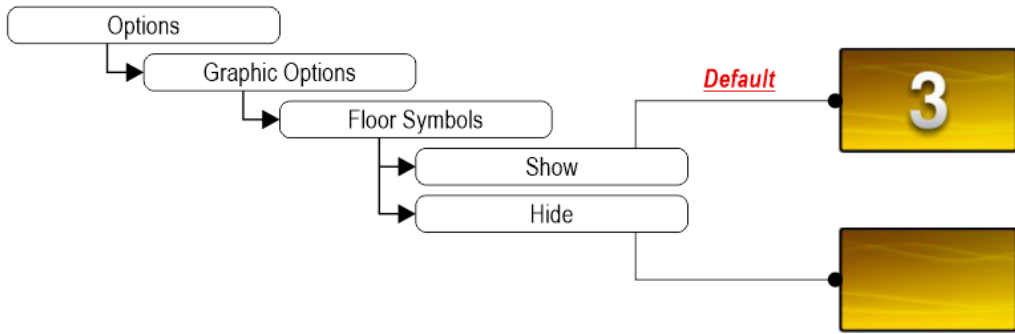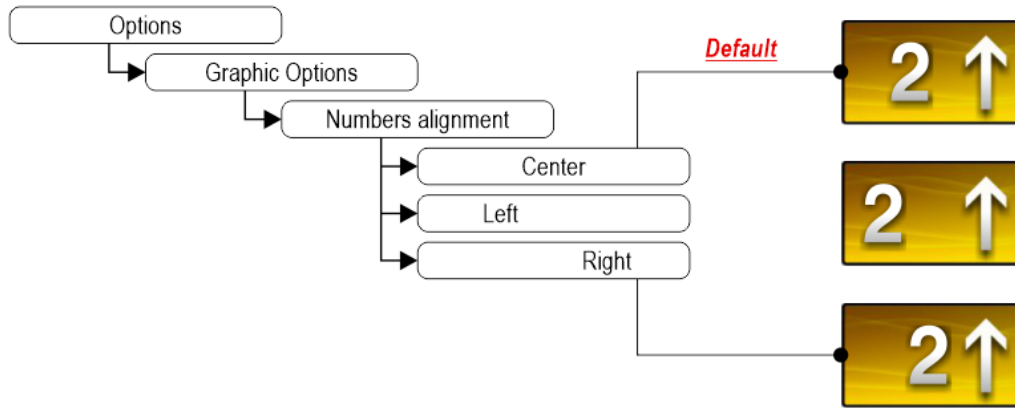
Show/Hide arrows
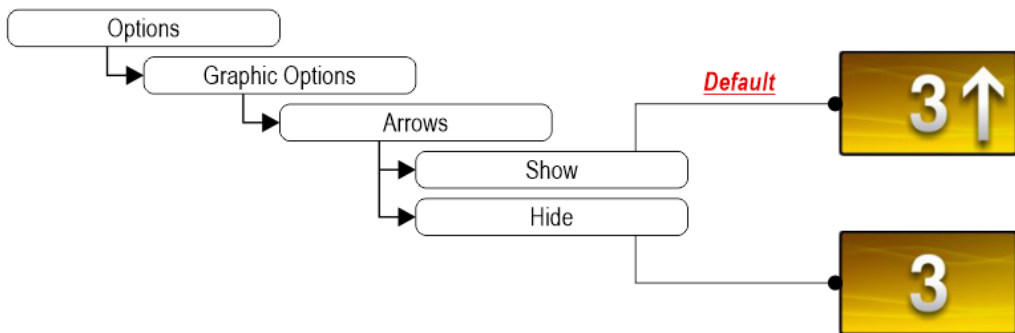
Show/Hide position with signal

Show/Hide arrows with signal

Auto Centering


```
Options
  └─▶ Graphic Options
        └─▶ Arrows with Signal                    Default
              ├─▶ Show
              └─▶ Hide
```

Numbers Alignment


```
Options
  └─▶ Graphic Options
        └─▶ Numbers alignment                     Default
              ├─▶ Center
              ├─▶ Left
              └─▶ Right
```

Reduce space between symbols (Kerning)


```
Options
  └─▶ Graphic Options
        └─▶ Kerning                               Default
              ├─▶ No
              └─▶ Yes
```
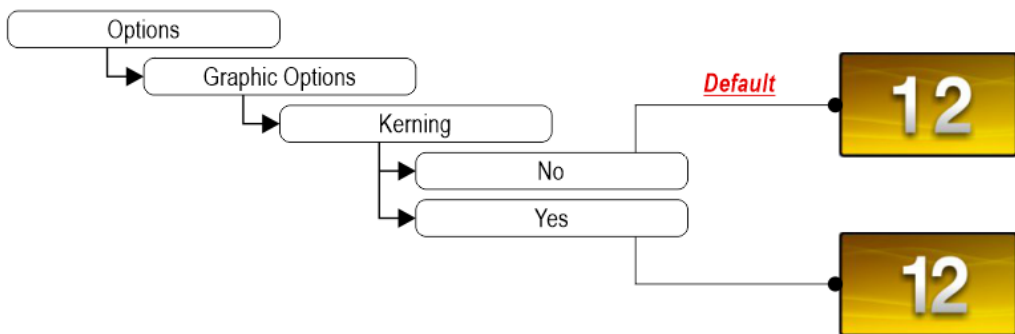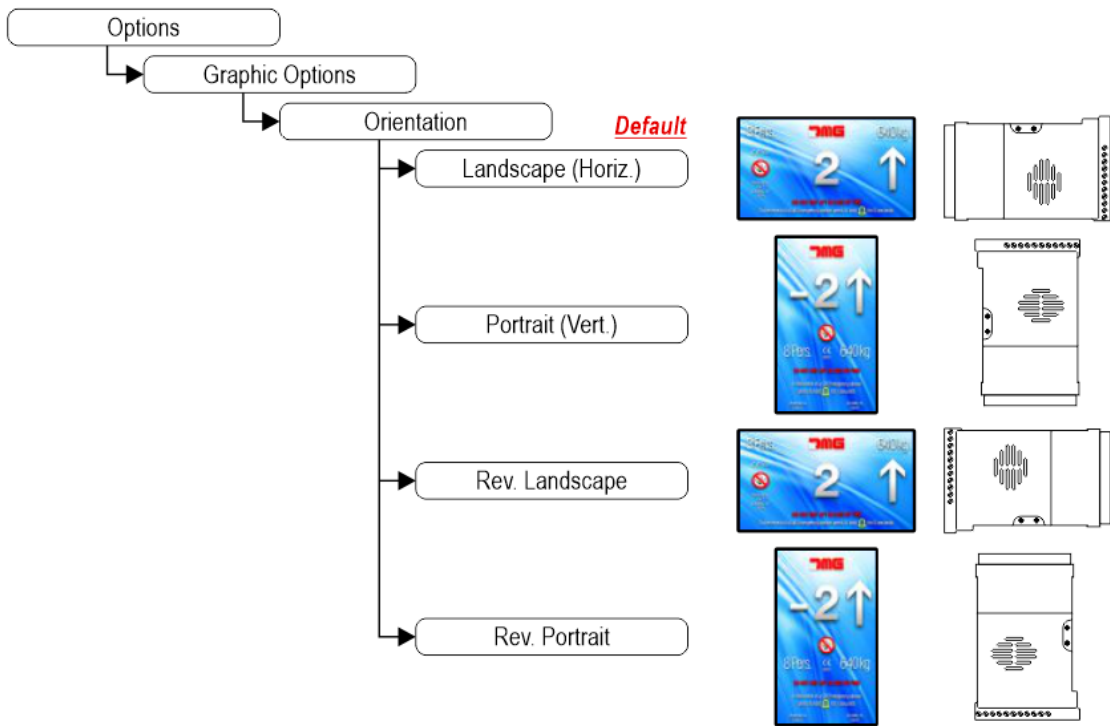
Signalizations (visualization)
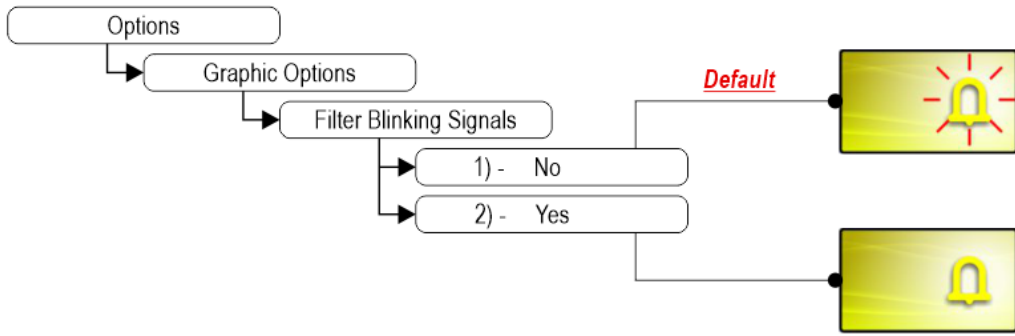
1) – Fixed or blinking signalizations (input from controller).

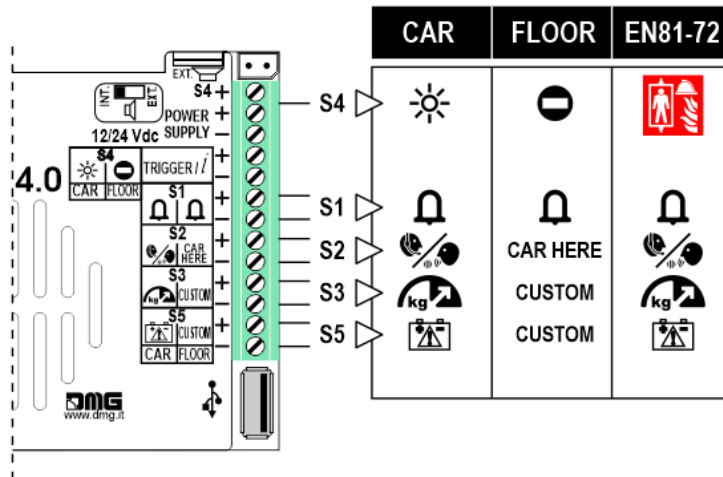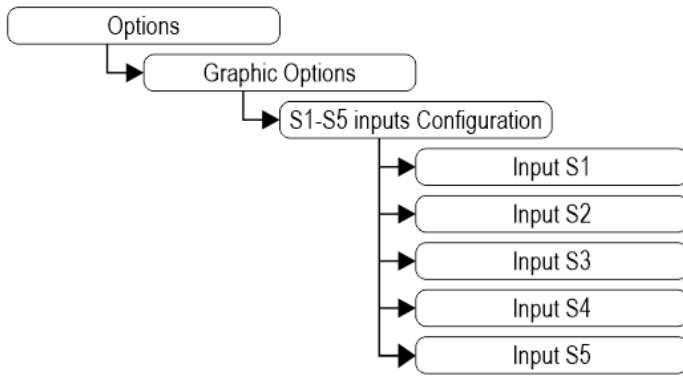*2) – Fixed signalizations.*

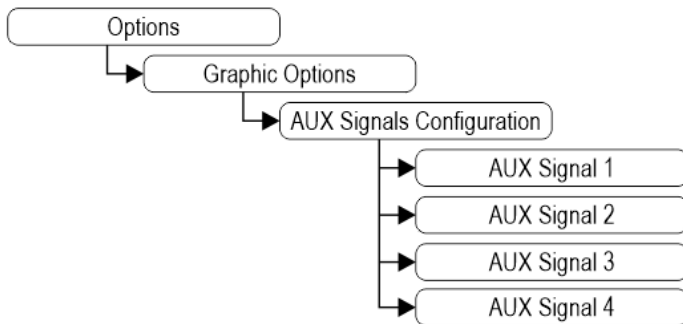## ⊖ Set up Display orientation

From firmware version 2.2.0 and later.
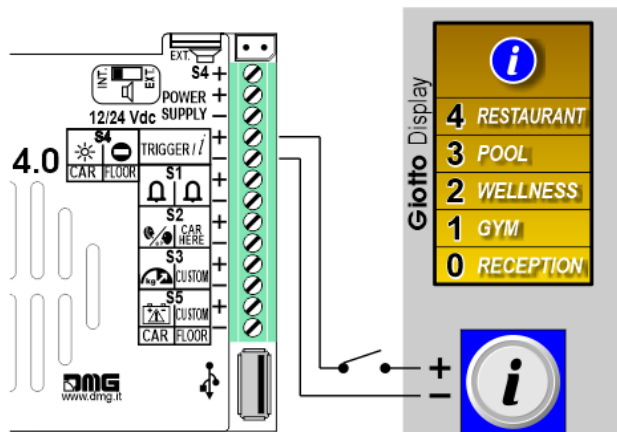
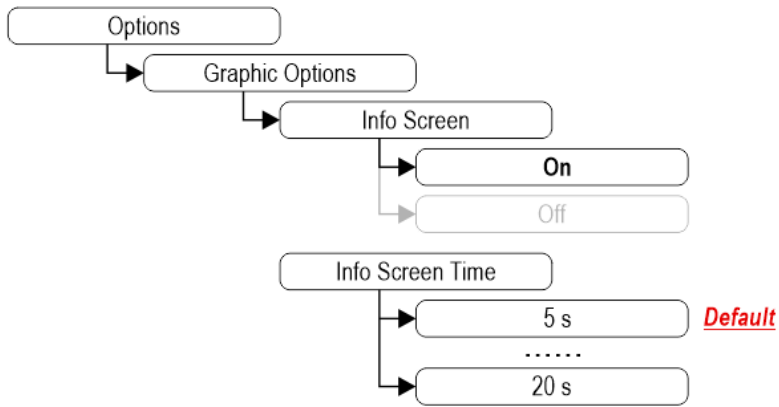

⊖ Set up service message inputs

Set up signals auxiliary
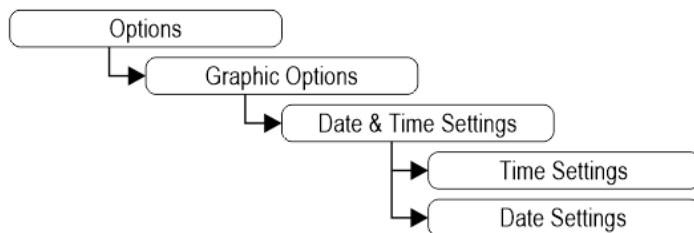

Set up "INFO" function

"INFO" screens must be uploaded using "Mosaic" software, and are activated for 5 to 20 seconds by pressing the "INFO" button (i).
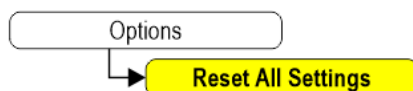
⚠️ *Usage of the "INFO" function will disable local activation of speech synthesizer's trigger.*

⊖ **Date and Time Settings**
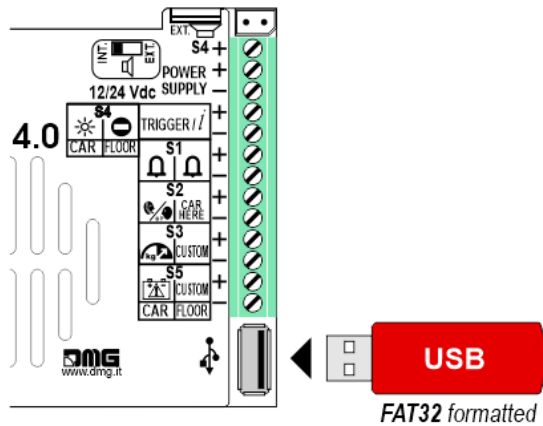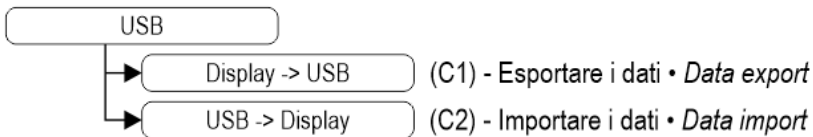

⊖ **Restore the factory settings**

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

⊖ **Data export / import**
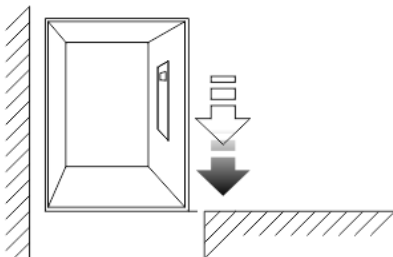
A) – Enter the USB menu.

B) – Insert the formatted USB memory (FAT32).

C1) – Data export – Only the settings initially configured through MOSAIC software will be exported. Modifications made on the display will not be exported.
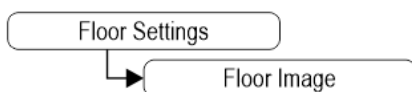
C2) – Data import.

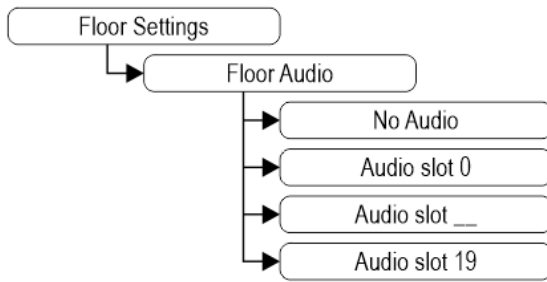## Customizations of floor

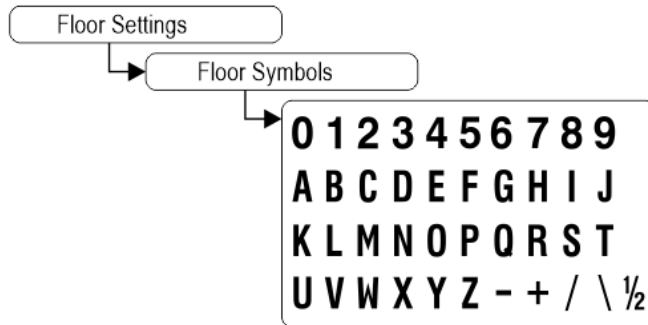*1) – Car at floor*

2) – Set up background images of floor

⚠️ *Images must be previously imported by "Mosaic" software.*

3) – Set up message of floor (voice annunciator version only)
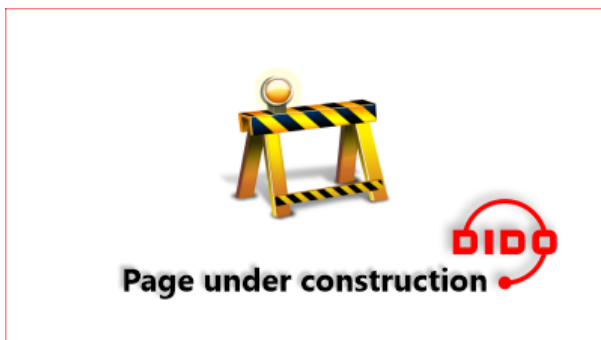
4) – *Set up symbols of floor*

Datasheet

Dimensions	4,3"	132 x 80 mm (H20)
	4,3" (EN81-71)	138 x 100 mm (H26)
	5" Back mounted	125 x 96 mm (H23)
	5" Frontal mounted	
	5,6"	132 x 129,5 mm
	7"	177,8 x 144 mm (H20)
	7" (EN81-71)	198 x 165 mm (H26)
	10,1"	240 x 169 mm (H35,5)
Screen (Viewable area)	4,3"	98,7 x 57,2 mm • 480 x 272 pixel • 65.000 colors
	4,3" (EN81-71)	
	5" Back mounted	111 x 63 mm • 480 x 272 pixel • 65.000 colors
	5" Frontal mounted	
	5,6"	115,3 x 87,1 mm • 640 x 480 pixel • 65.000 colors
	7"	157 x 89 mm • 1024 x 600 pixel • 65.000 colors (IPS screen)
	7" (EN81-71)	
	10,1"	222,7 x 125,3 mm • 1024 x 600 pixel • 65.000 colors (IPS screen)
Power supply (position input)		12÷24V DC ±10%
Absorption	4,3"	DISPLAY 12V DC: Max 91mA • 24V DC: Max 66mA

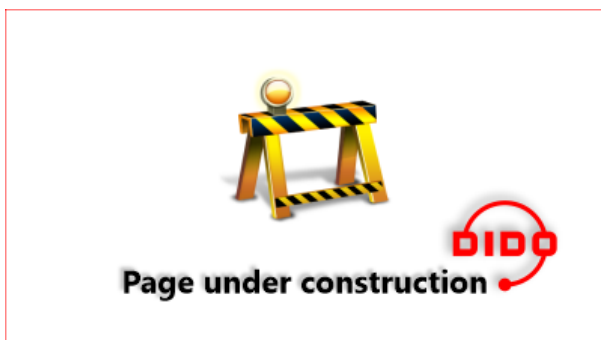|		PANIC LIGHT 12V DC: Max 80mA • 24V DC: Max 44mA
	5"	
	5,6"	DISPLAY 12V DC: Max 270mA • 24V DC: Max 150mA PANIC LIGHT 12V DC: Max 242mA • 24V DC: Max 125mA
	7"	DISPLAY 12V DC: Max 230mA • 24V DC: Max 134mA PANIC LIGHT 12V DC: Max 210mA • 24V DC: Max 110mA
	10,1"	
Indicators inputs		S1 / S2 / S3: 12÷24V DC ±10% (opto-isolated) Impedance = 3Kohm
Operating temperature	4,3"	
	5"	
	5,6"	-10°C ÷ +50°C
	7"	
	10,1"	

Video Tutorial

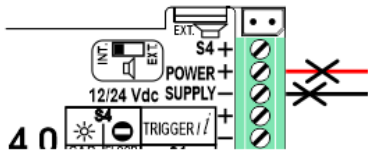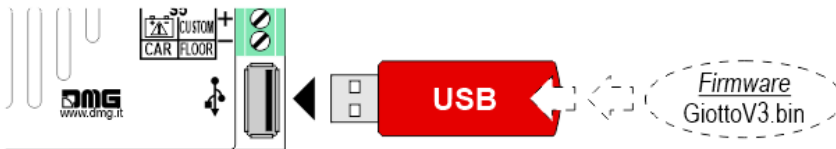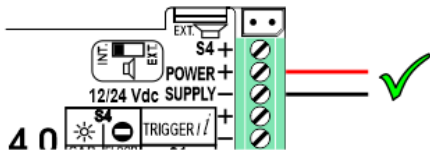# Firmware update

⚠️

We advise against firmware downgrade.

A) – Power off the Giotto display.

B) – Insert the USB memory.

C) – Power ON the Giotto display and wait until the update is installed.

Download

Reference	Version	Link
	1.0	Download PDF (English)
IPS screen (7″)	1.1 (current version)	Download PDF (English)

Updated on 7 Dicembre 2021