



Matisse Multimedia Display

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✔ Updated to EN81-28:2018 regulation.



Safety and usage cautions

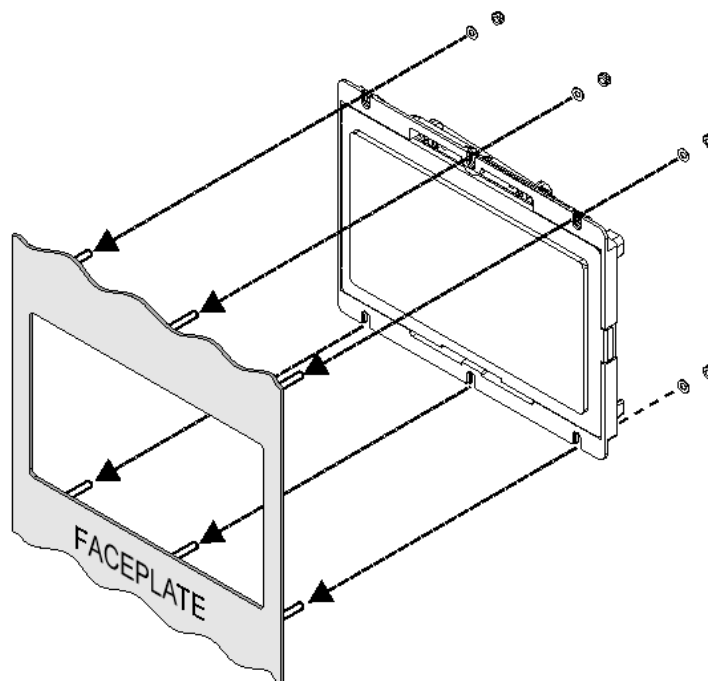
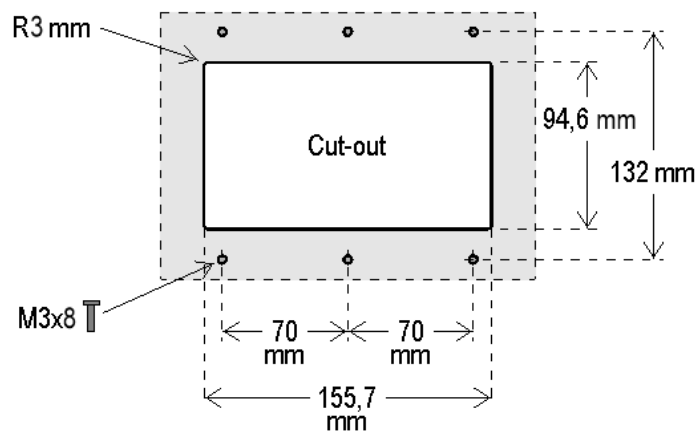
Before installing our products, we recommend you to consult the section about safety and usage cautions at the link below.



Mounting

☰ Matisse 7"

With studs on 1,5/3 mm faceplate

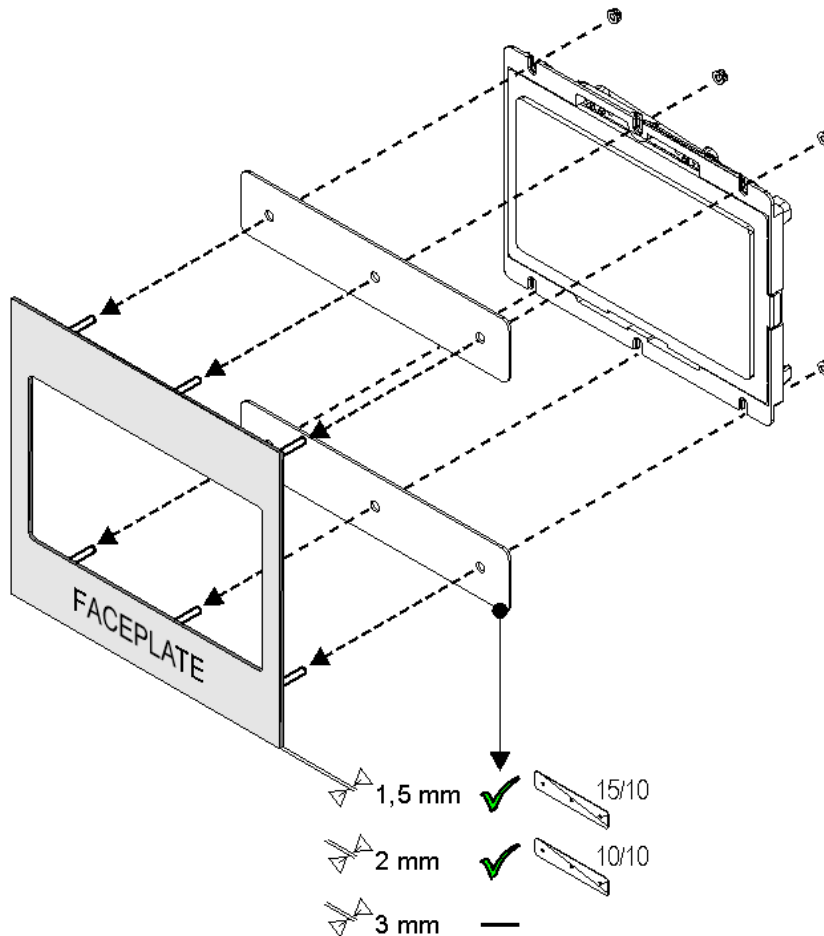
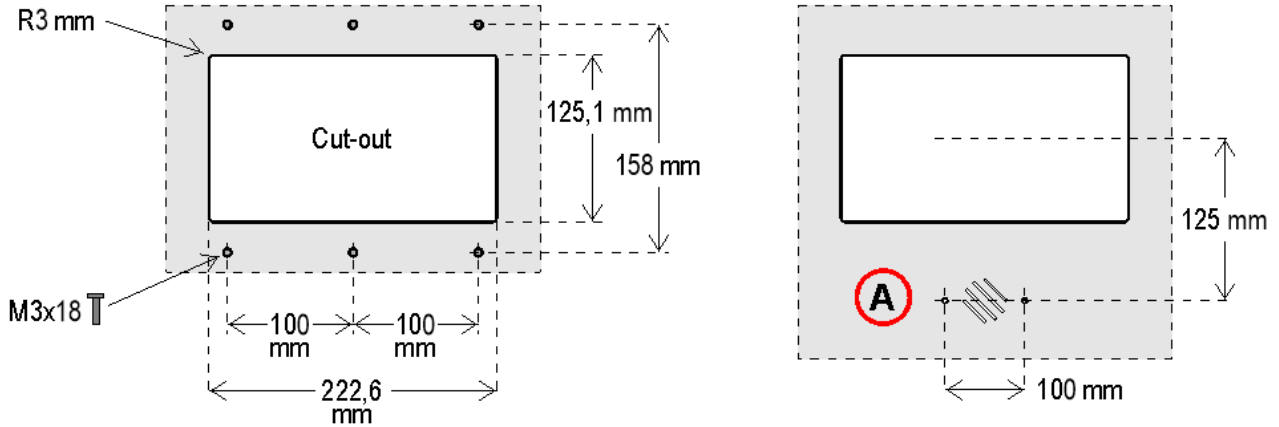




If you are replacing an existing position indicator, please verify that studs' length match the above mentioned one; if not, please shorten them.

➔ Matisse 10,1"

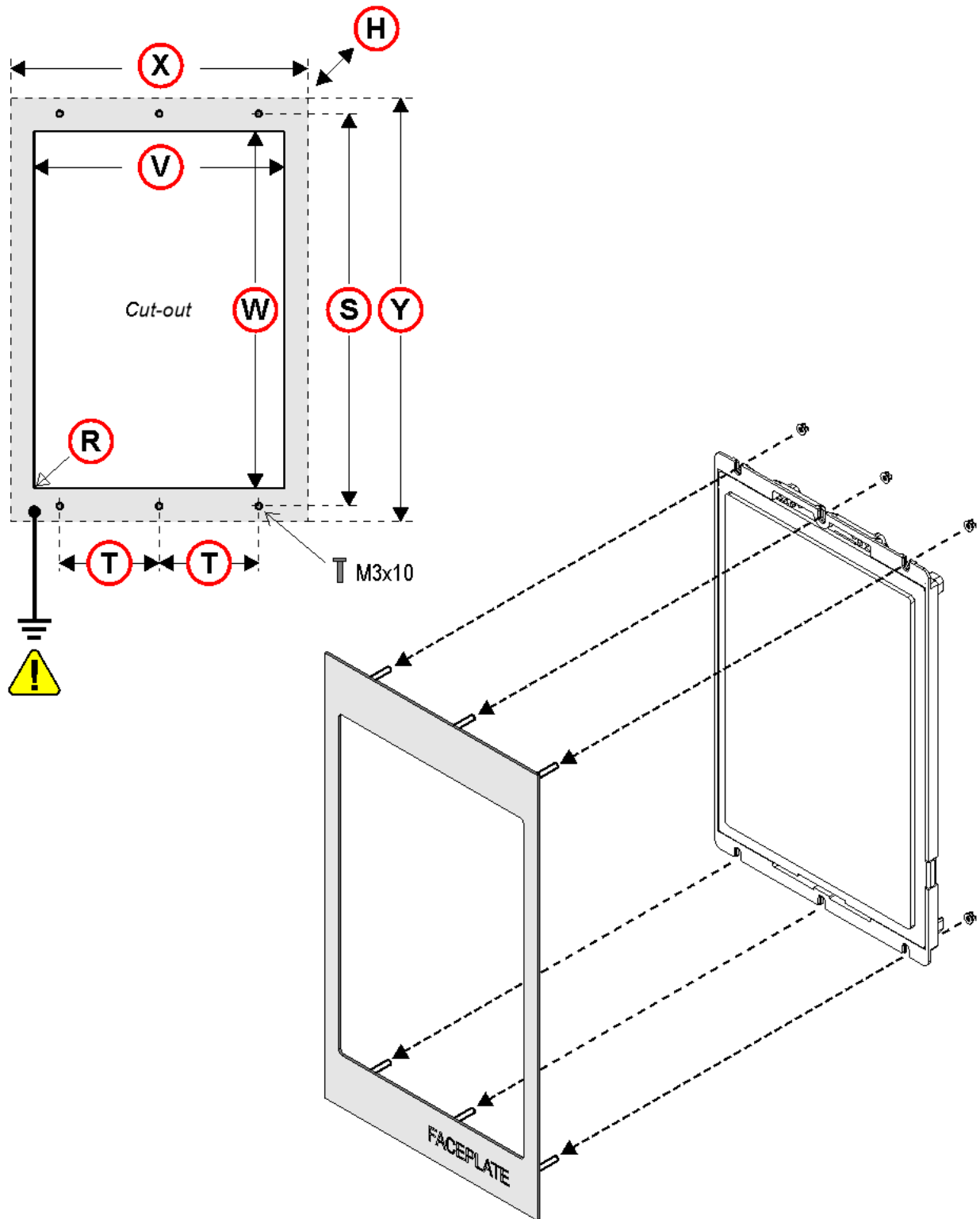
With studs on 1,5/3 mm faceplate



A) – ESYSPK2 external speaker (option)

➔ Matisse BIG (15,6"/18,5"/21,5")

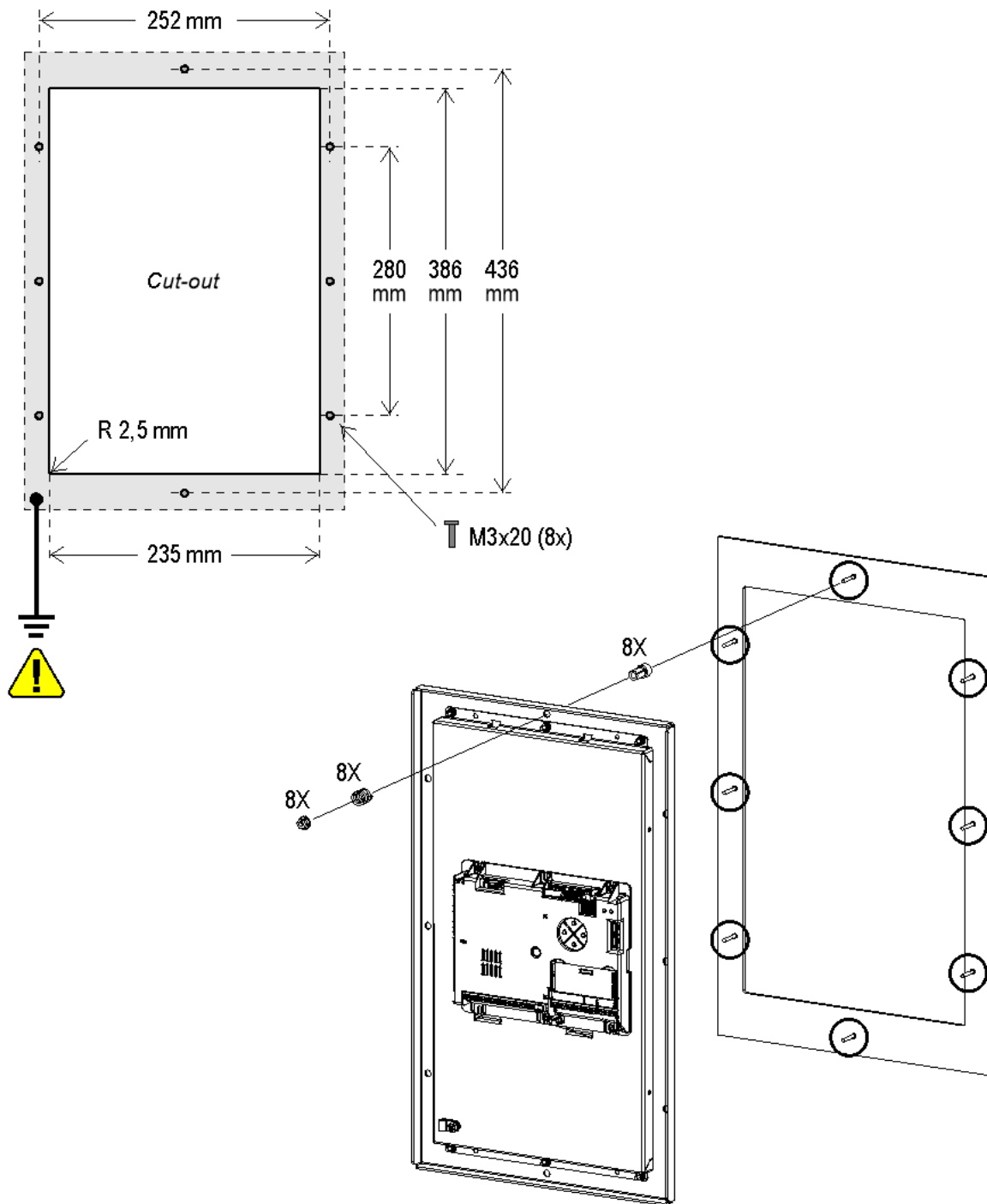
With studs on 1,5/2 mm faceplate



TFT	DIMENSIONS: (X x Y x H)	CUT-OUT (V x W - R)	STUDS SxT
TFT 15,6"	232,5 x 430,5 x 44	192.6x343,6 mm - R0,1	413x100
TFT 18,5"	284 x 497,5 x 49	229.6x408,6 mm - R0,1	480x110
TFT 21,5"	324,5 x 564,5 x 49	266.6x475,6 mm - R0,1	547x140

⊖ Matisse 15,6" (EN81-71)

With studs on 2/3 mm faceplate



Wiring Instructions

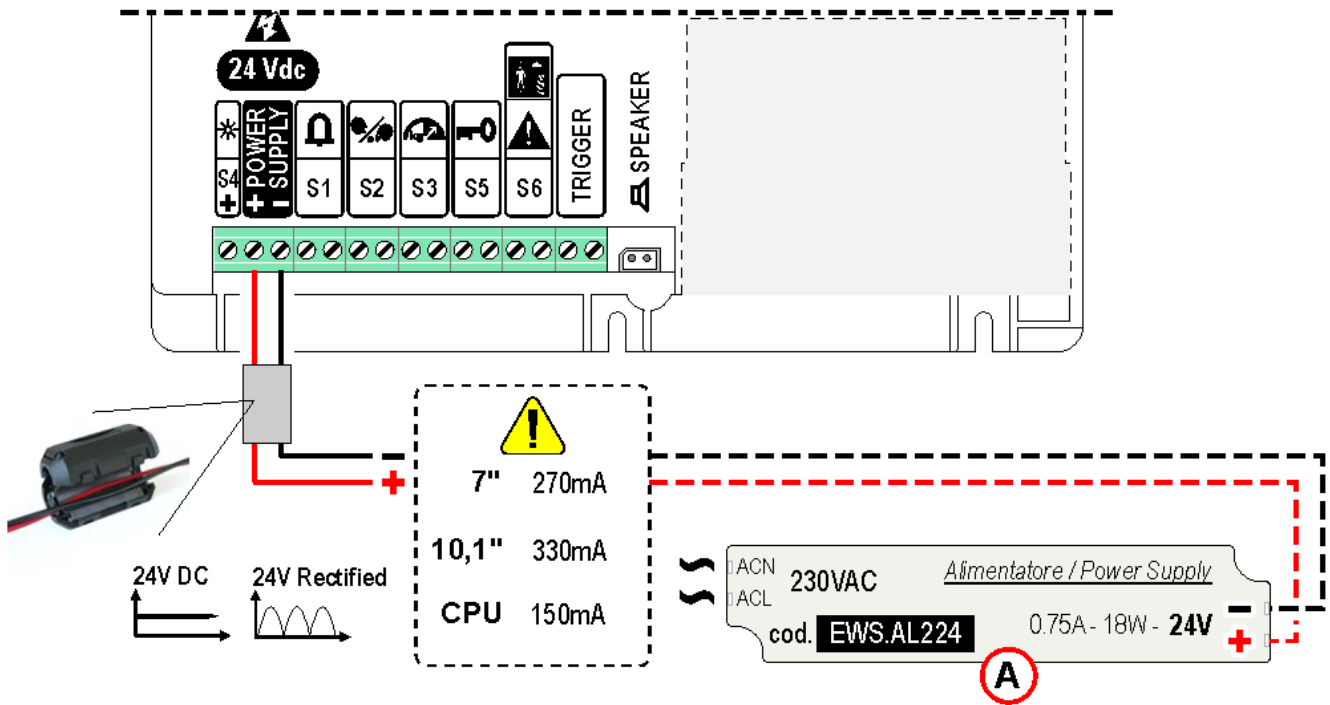
POSITION & DIRECTION Input Wiring

⊖ Power Supply



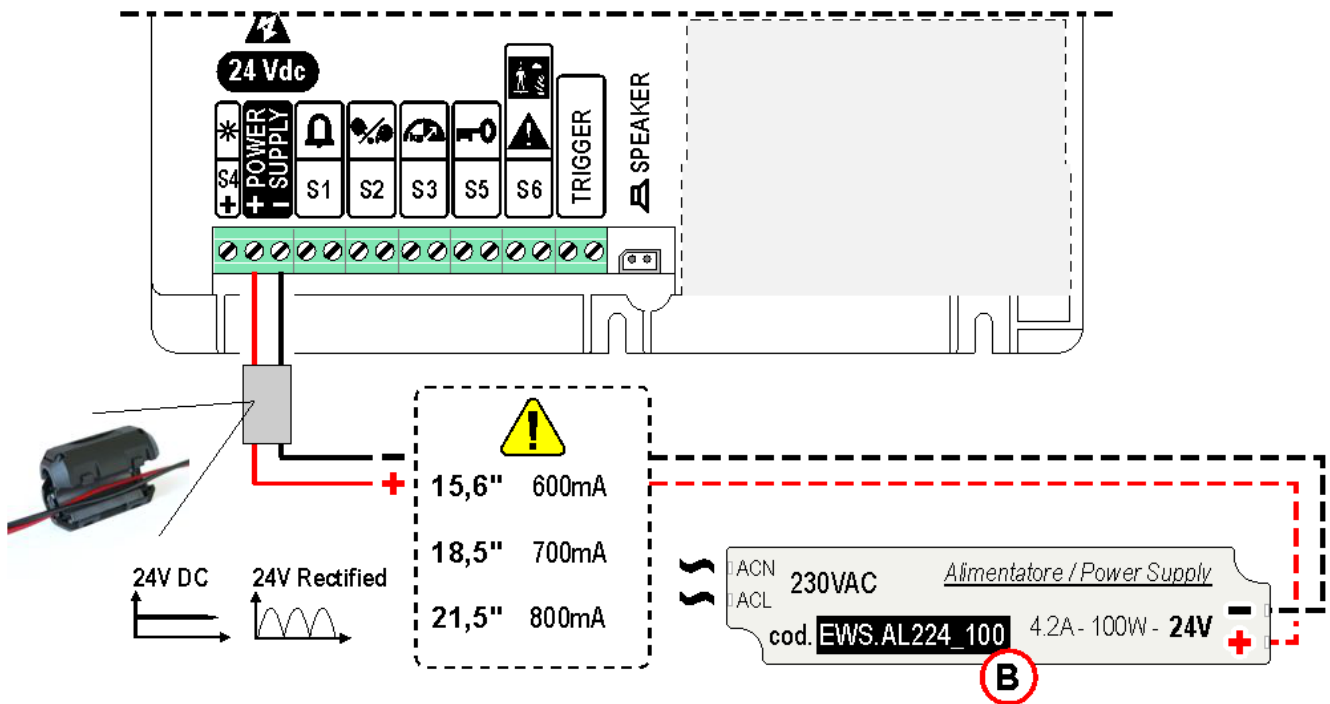
Check that the display panel has been ground connected.

Matisse 7" / 10,1" / CPU only



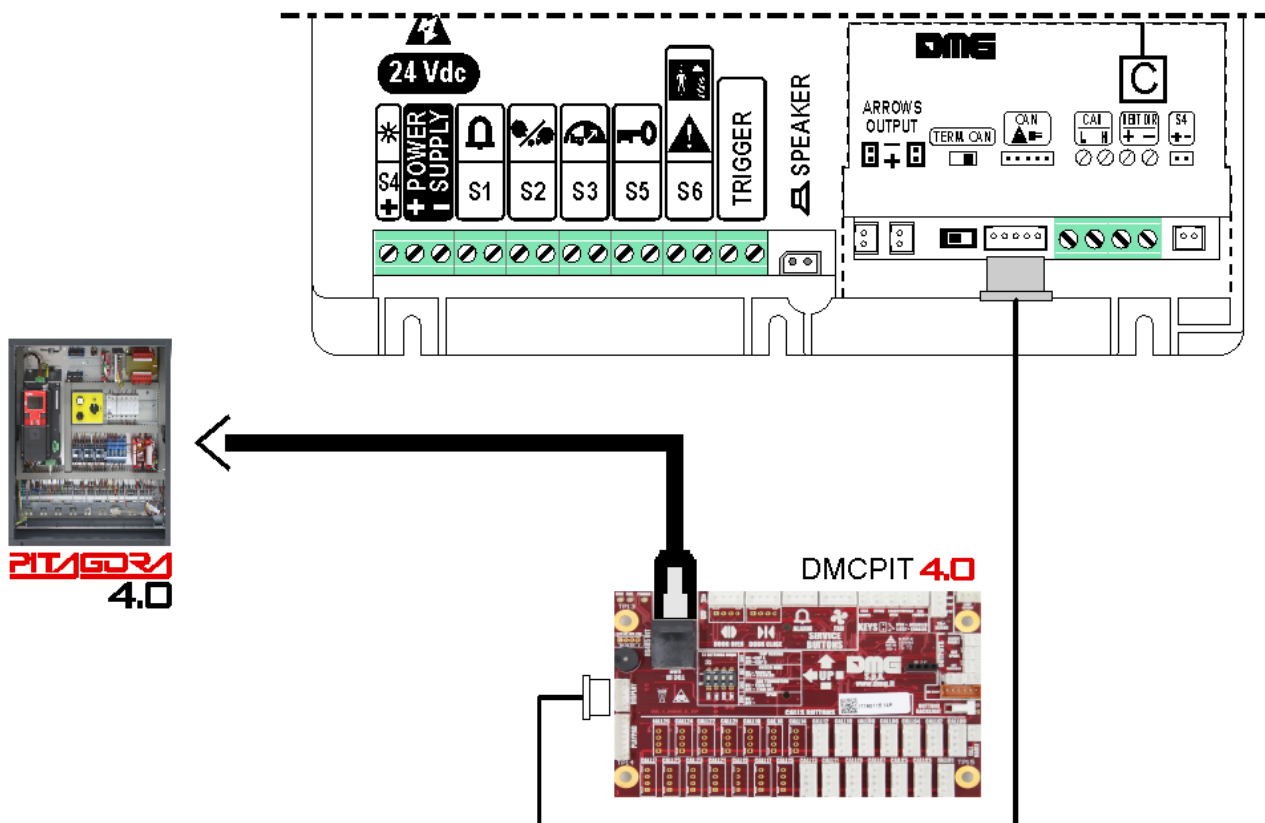
A) – EWS.AL224 – Optional power supply (0.75A – 18W – 24V)

Matisse 15,6" / 18,5" / 21,5"

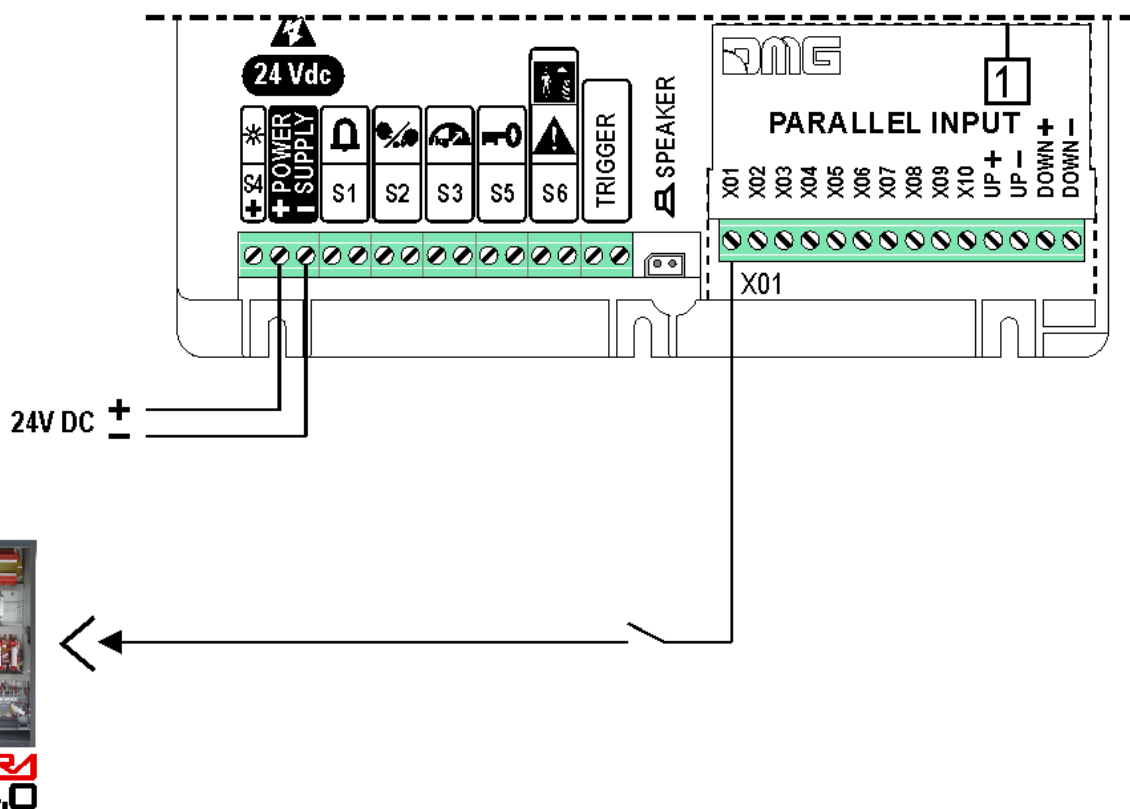


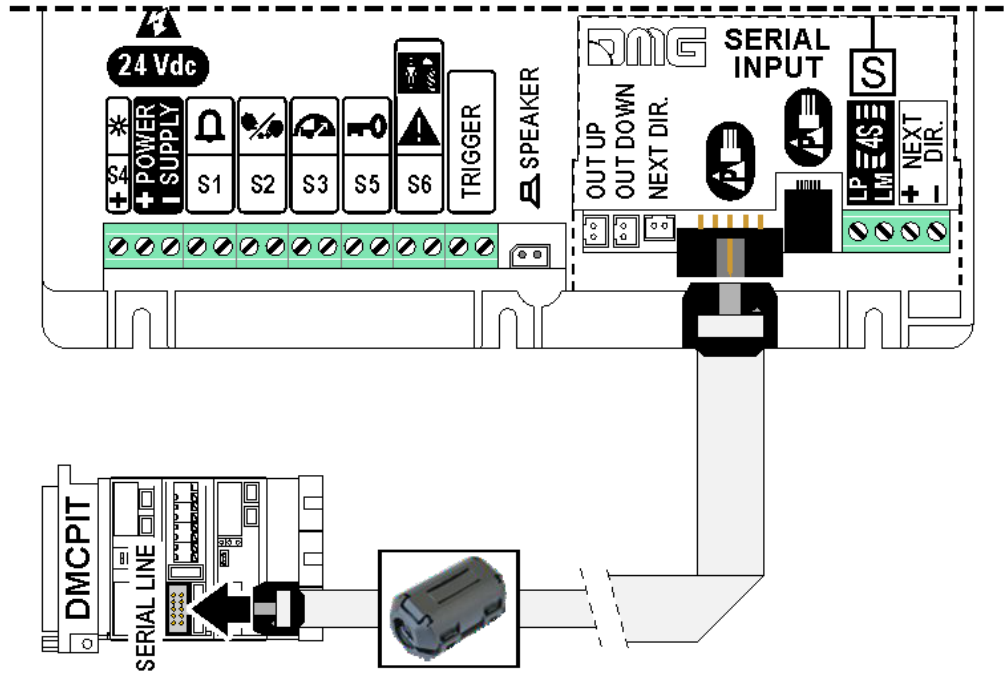
B) – EWS.AL224_100 – Optional power supply (4.2A – 100W – 24V)

DMG CAN serial protocol
CAR



DMG
3-wires serial



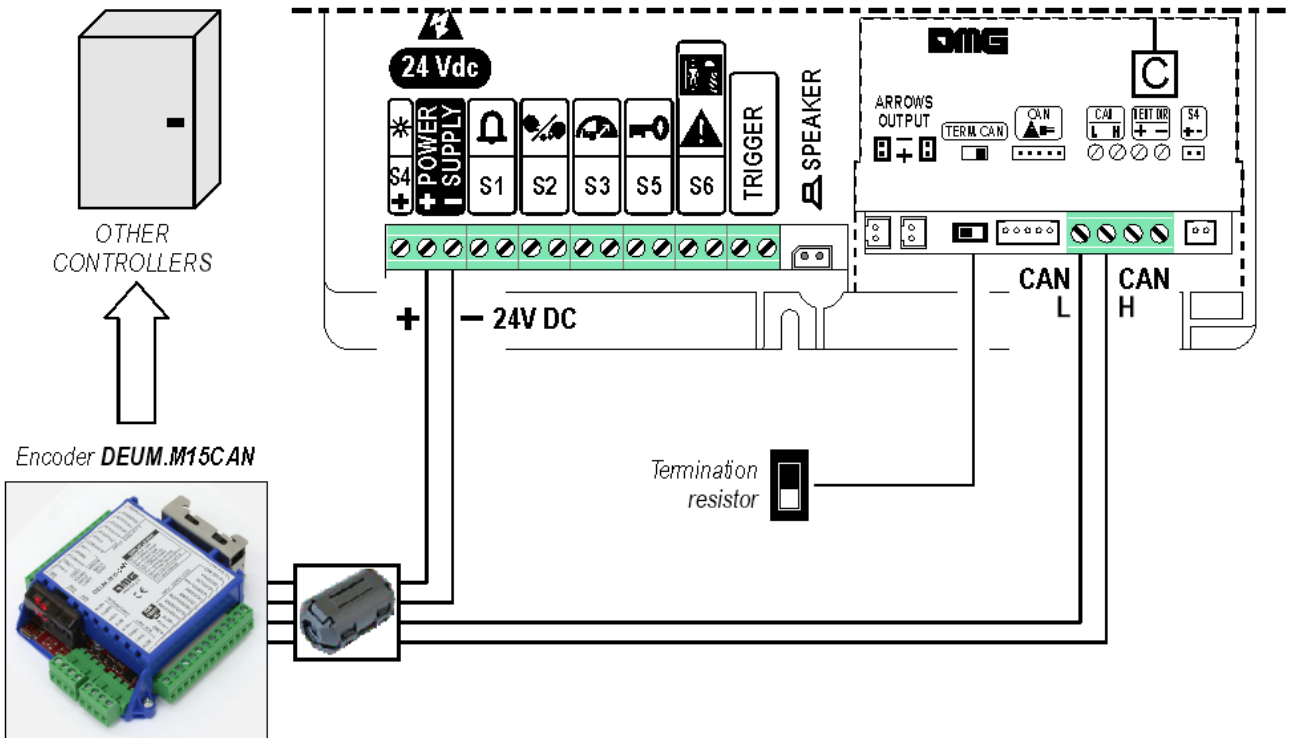


Encoder DEUM



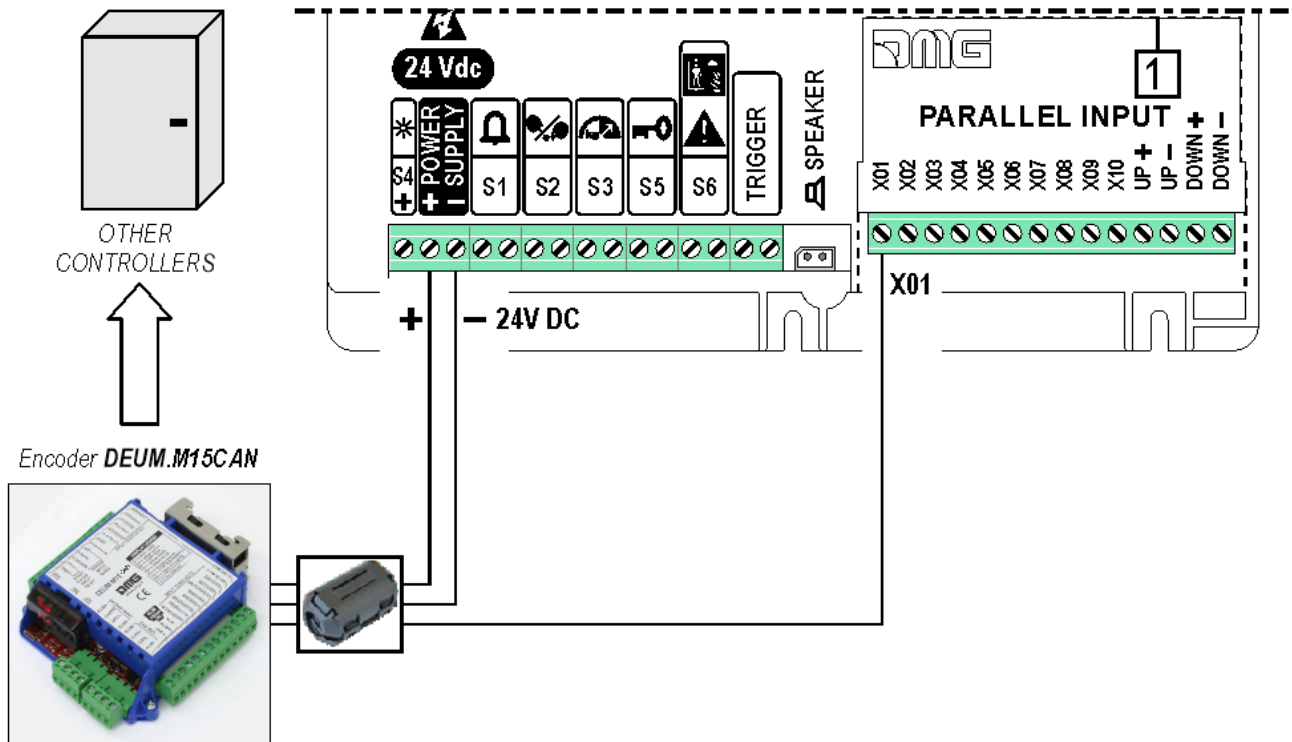
For more details please refer to the [Encoder DEUM](#) support page

DMG CAN serial protocol



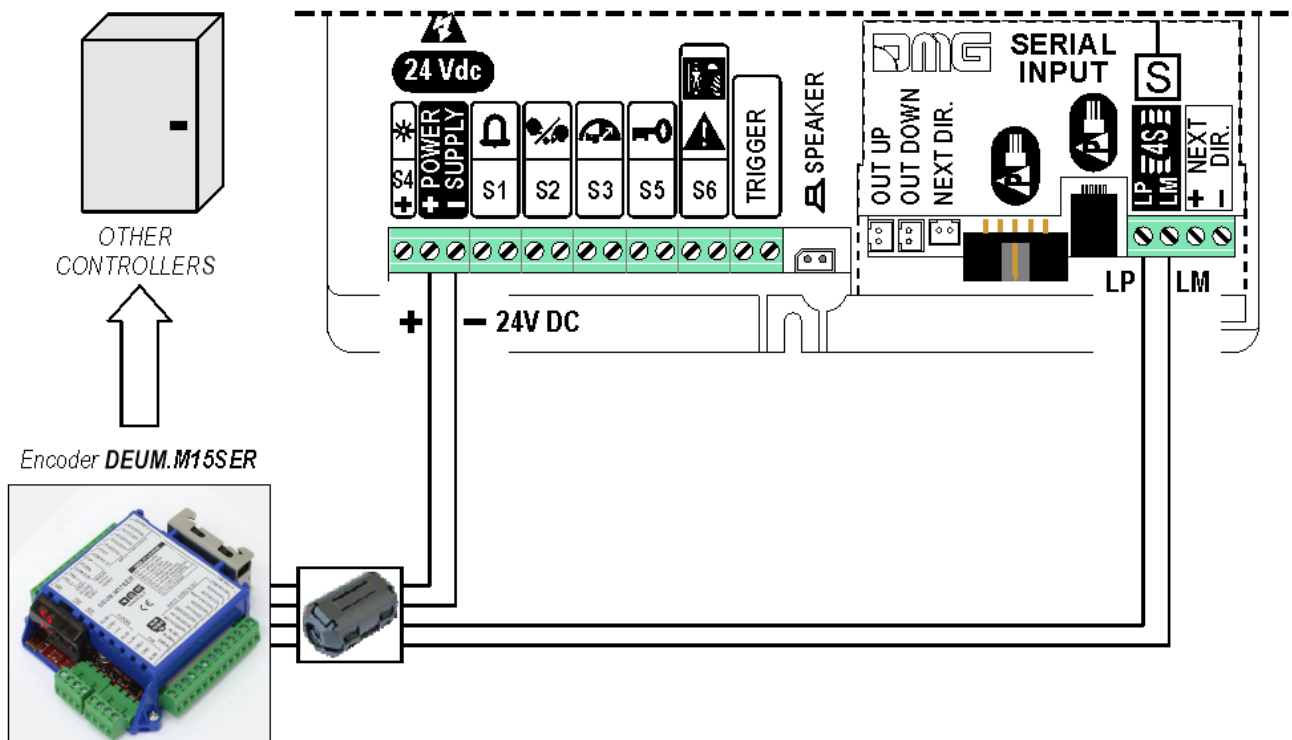
DMG

3-wires serial



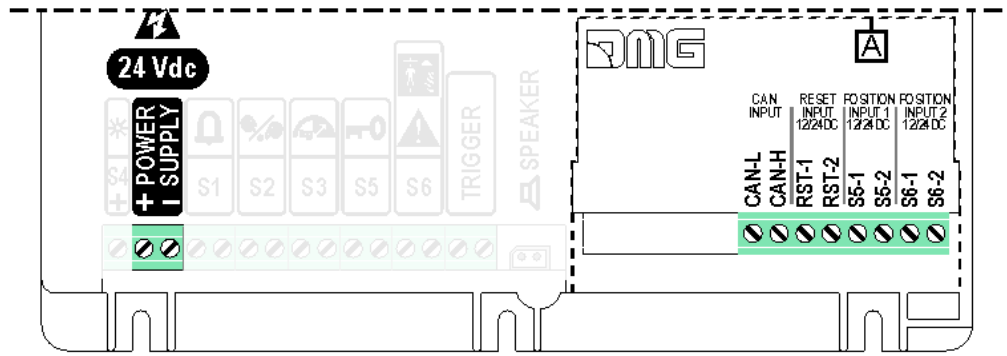
RS485 serial

CAR



➤ 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 elevator 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.

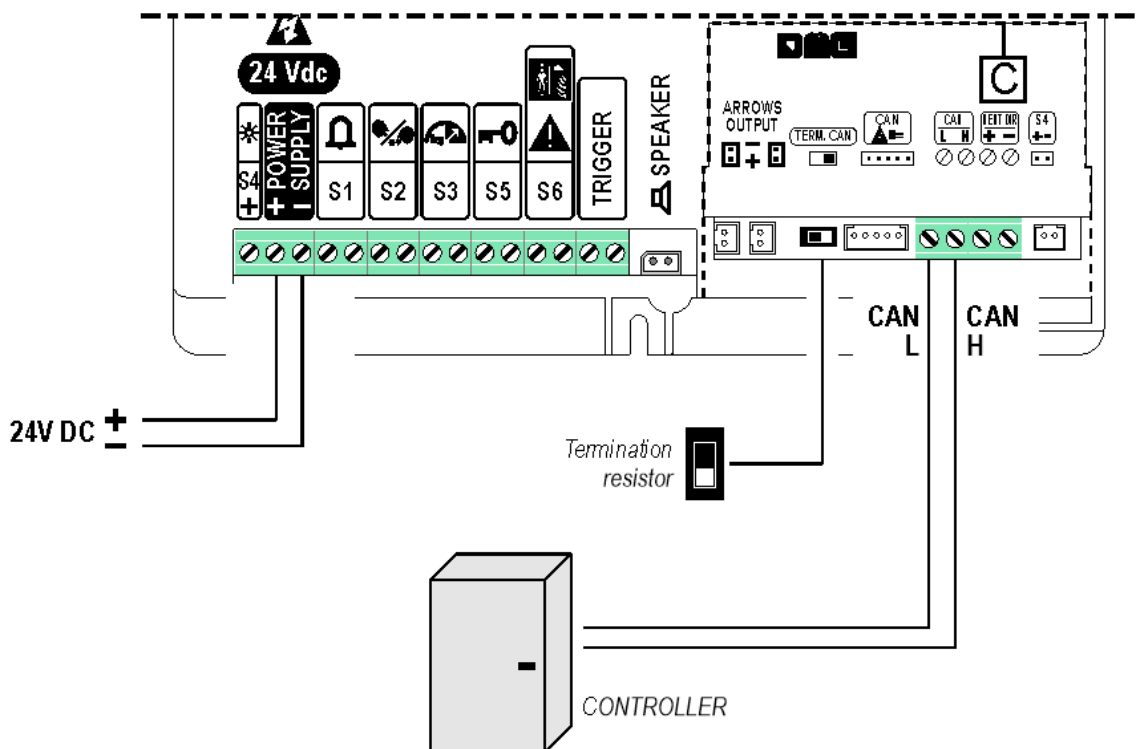
In this interface there is a CAN BUS serial line for piloting the position indicators of floor.

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

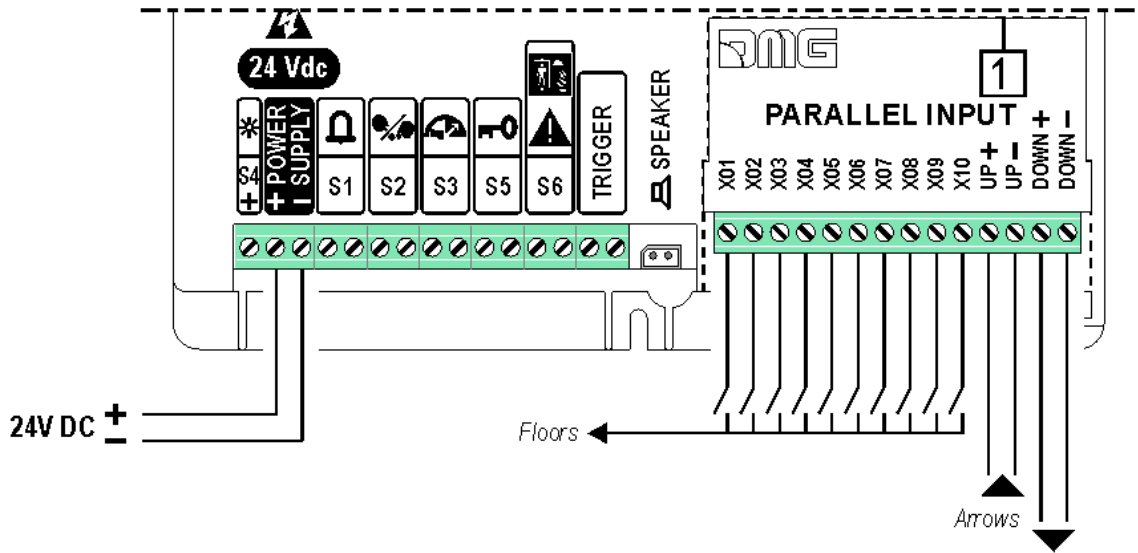
Autonomous positioning System

Other Controller

Proprietary CAN protocol

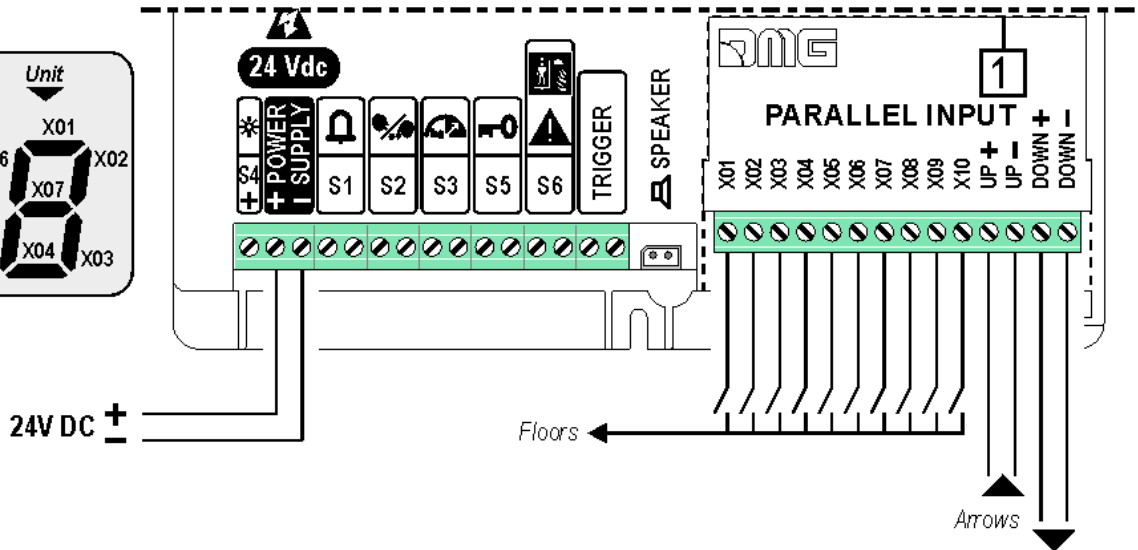
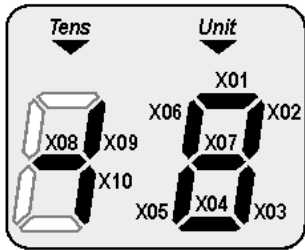


1 Wire / Floor



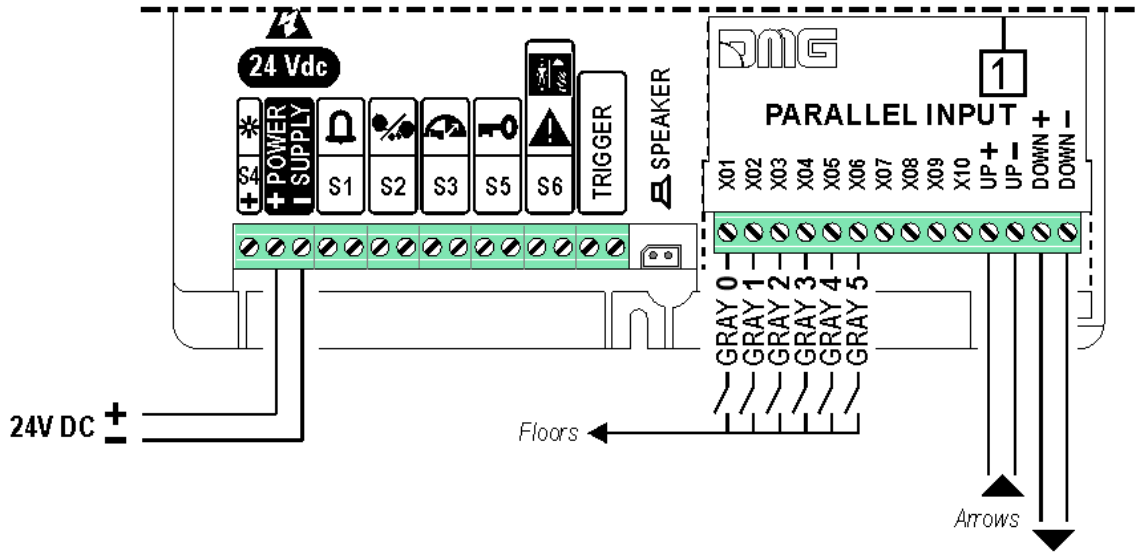
10 floors max.

1 Wire / Segment



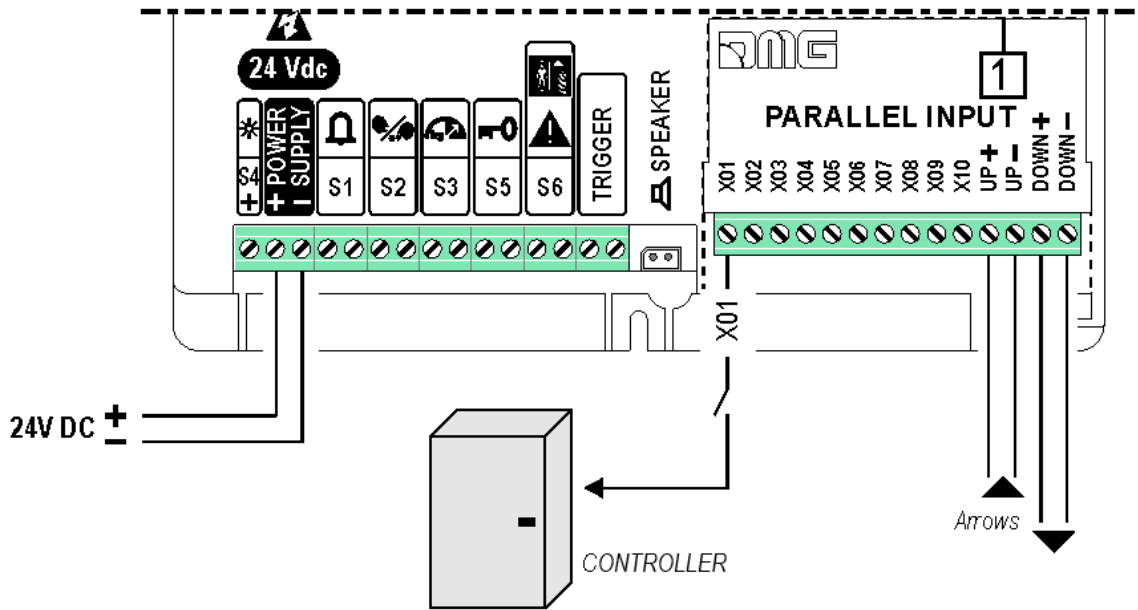
29 floors max. (-9, 0, 19)

Gray / Binary

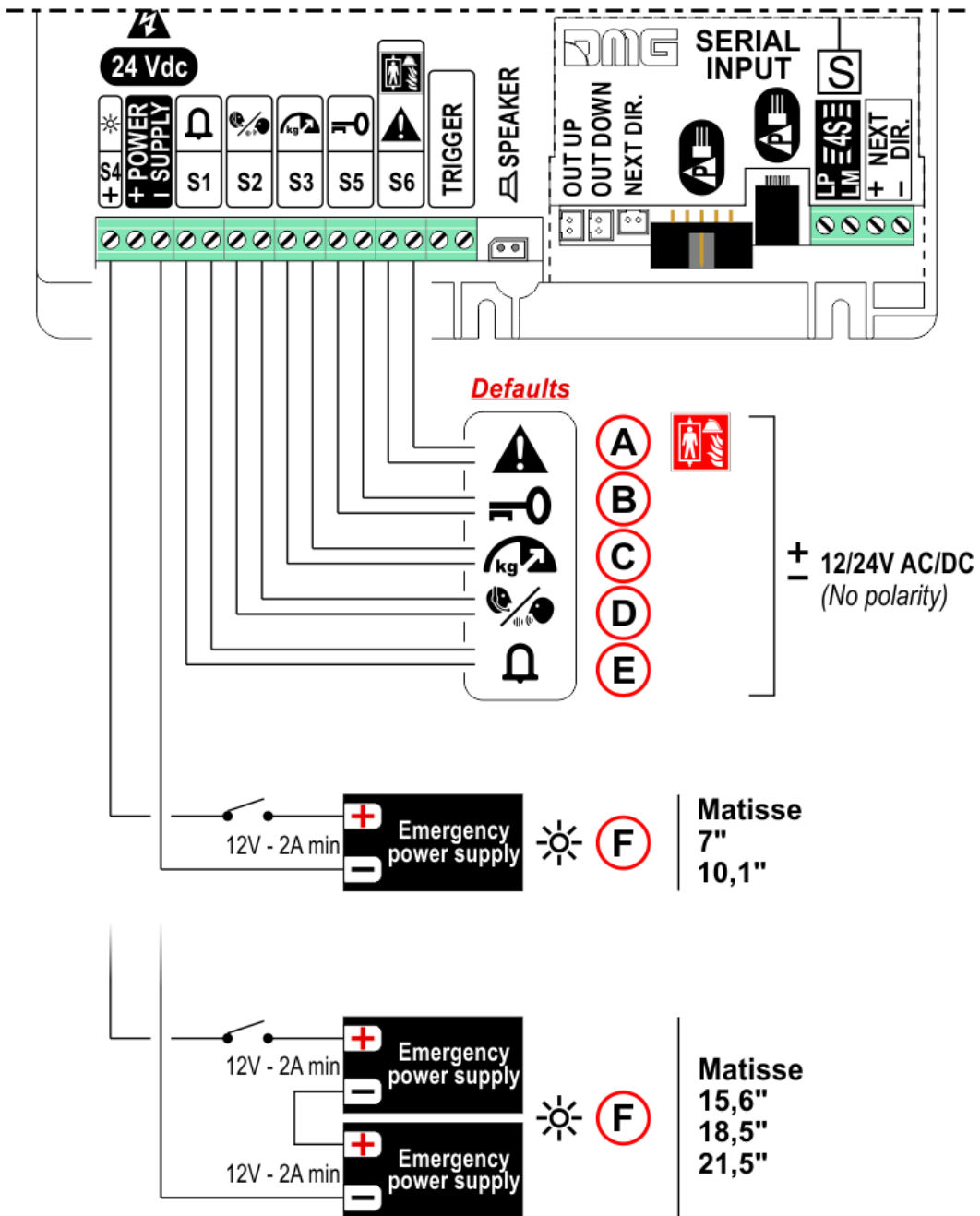


72 floors max. (-9, 0, 62)

TKE/MEA/Autinor



SERVICE MESSAGE Wiring



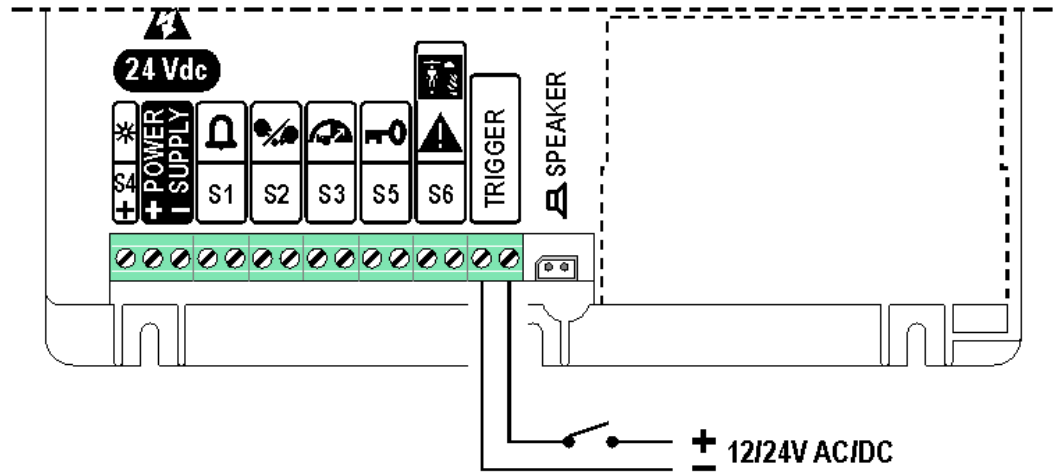
- A) – S6 – Emergency Operation / Firefighters operation
- B) – S5 – Reservation
- C) – S3 – Overload
- D) – S2 – Communication established
- E) – S1 – Alarm sent
- F) – S4 – Antipanic light (Make sure the batteries are charged)



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

TRIGGER Wiring

This input triggers voice messages on voice synthesizer and gong.

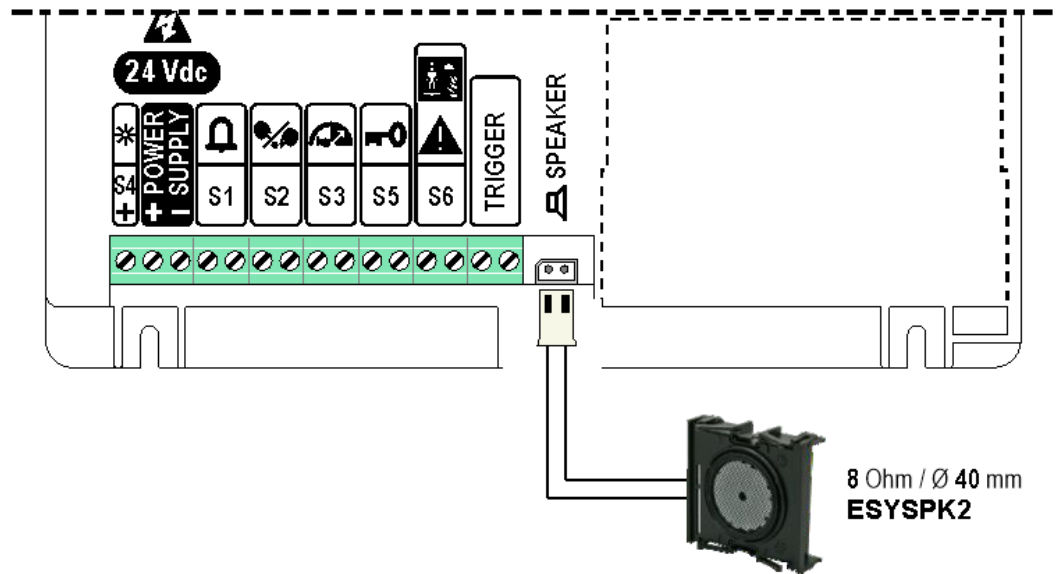


No polarity



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

EXTERNAL SPEAKER Wiring

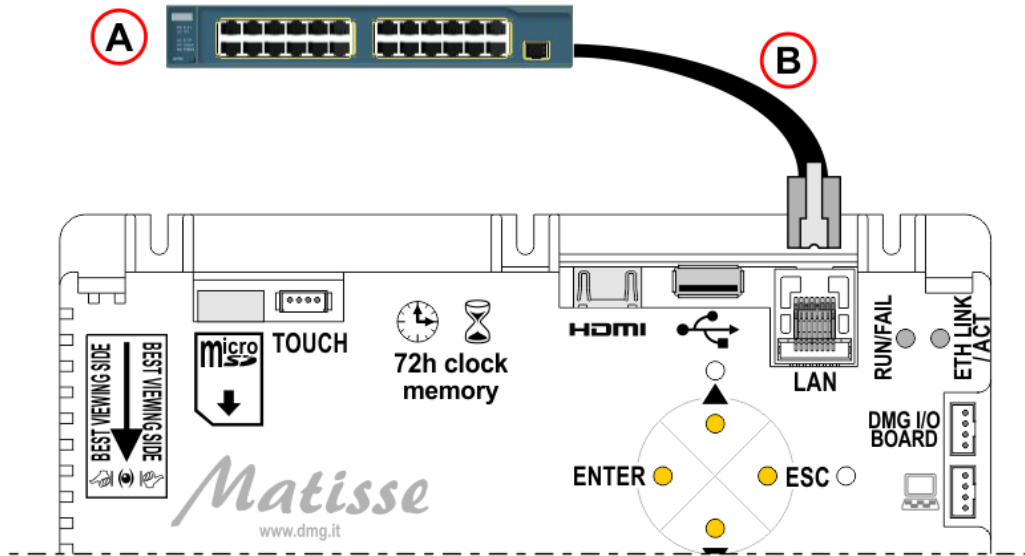


External speaker is mandatory to play sound.
Matisse haven't any integrated speaker.

Advanced Functions

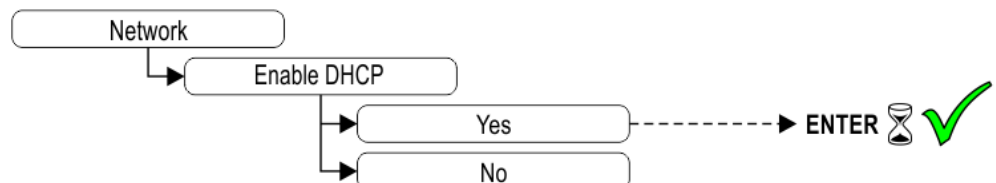
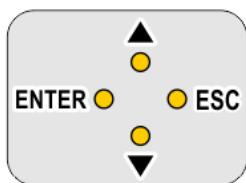
Network Connections

⊖ Network Connections

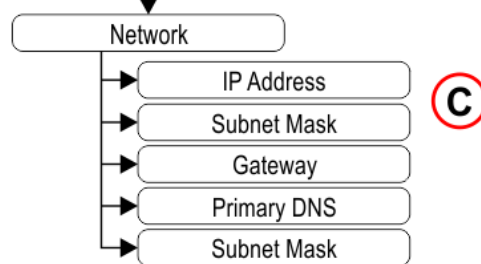
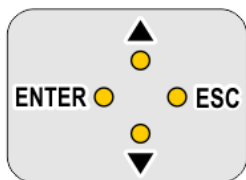


- A) – Ethernet Switch/Router, ADSL Modem, 2/3/4G Modem, Wifi Access Point, etc.
- B) – RJ45 Ethernet cable.

DHCP Setting



Network setup (if DHCP disabled)



- C) – To edit any IP address or subnet, please use the four sub parameters provided for each address.

Web contents

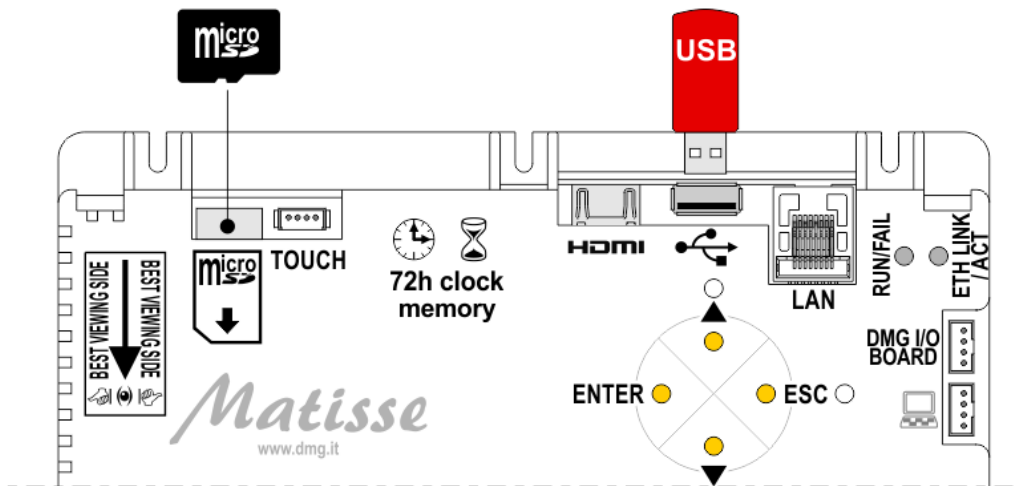
Use “**MosaicONE**” online software to add Web based contents like Meteo Widget or Web View Widget.

Videos & Music playback

– Videos & Music playback

MATISSE has 256 MBytes of available user space. You can use a USB Stick to load music and videos on device. Use a micro SD Card to extend device storage space in case large media contents are needed. Please refer to

section “compatible Media Formats” for more details.



Loading files and updates with USB



When a USB stick is plugged, the related menu page will be automatically showed.

Advertisement videos (+ expanding storage)



You can create an initial playlist and expand it creating a folder named “adverts” on the micro SD card. Videos in the folder will be automatically loaded in the playlist.

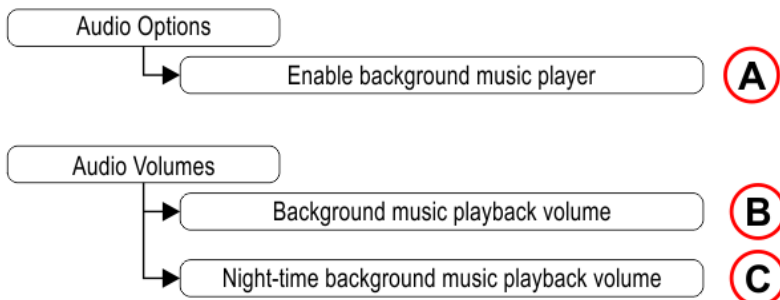
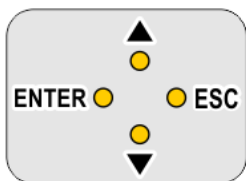


Use “MosaicONE” online software to add an “Advertisement Video Widget” to your layout.

Background music (+ expanding storage)



If background music player is enabled, you can expand the playlist memory creating a folder named “music” on the micro SD card. Files in the folder will be automatically loaded in the playlist.



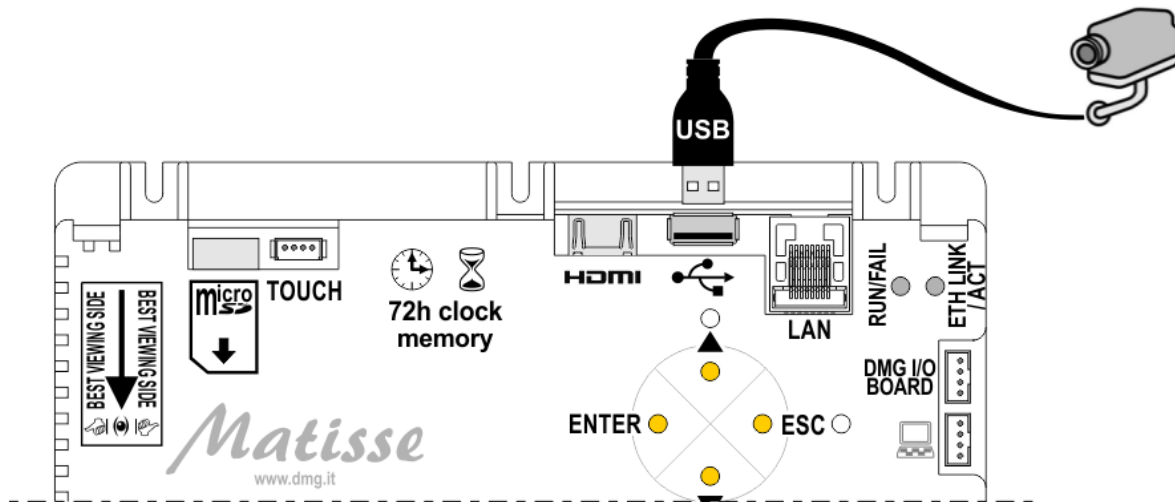
- A) – Enable background music player (see “*Setting CARUSO speech synthesizer*” section => “*advanced features*”).
- B) – Background music playback volume (see “*Setting Audio Level*” section => “*Detailed audio level adjusting*”).
- C) – Night-time background music playback volume (see “*Setting Audio Level*” section => “*Detailed audio level adjusting*”).

Connecting an external camera

– Connecting an external camera

Matisse supports USB cameras if they are Linux UVC compatible. A list of compatible devices may be found on:

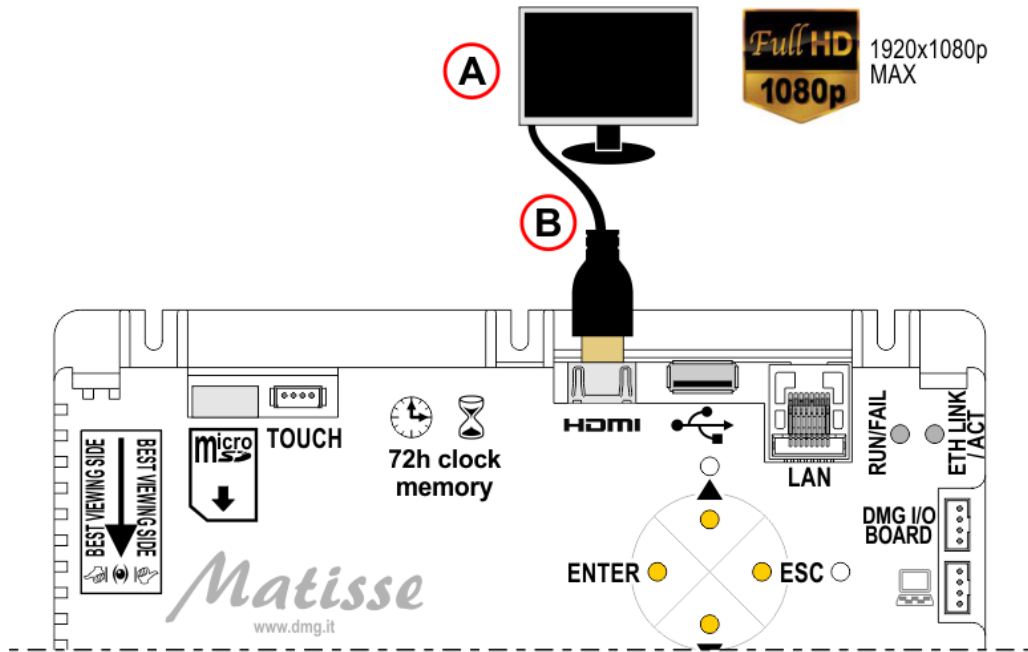
<http://www.ideasonboard.org/uvc/#devices> or refer to DMG help desk.



Use “**MosaicONE**” online software to add a “Local Camera Widget” to your layout.

Connecting an external monitor

– Connecting an external monitor



- A) – HDMI Monitor/TV
- B) – HDMI Cable or HDMI/DVI adapter (NOT supplied)

Settings

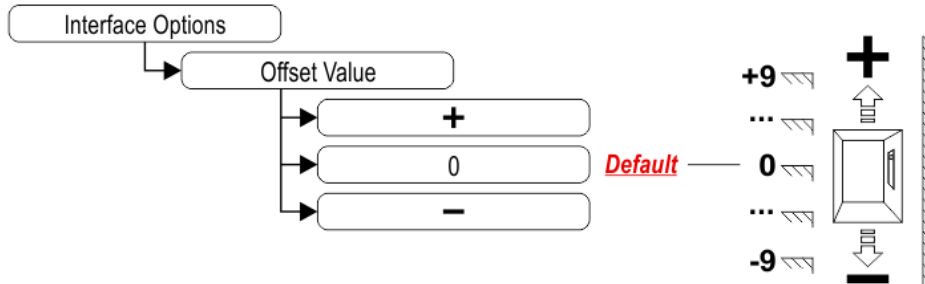
ENTER ●	▲ ● ● ▼	● ESC
<i>Value setting / Menu entering</i>	<i>Browse options at current level</i>	<i>Exit / Back</i>

Navigation menu keys

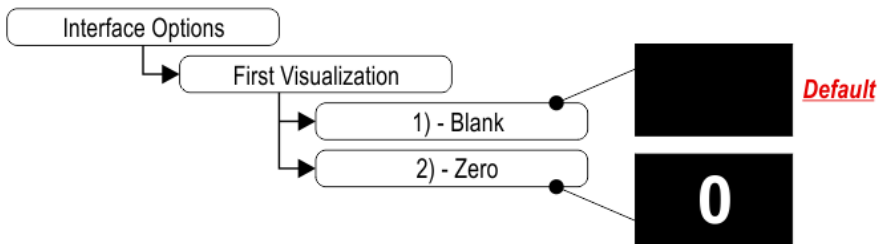
Menu item	Menu contents
Language	Here you can change menu language on the basis of available translations.
Encoding	Elevator communication protocol selection.
Interface options	Parameters in this window are input protocol specific.
Visualizations of floor	In this window you can configure symbols associated to each floor. It is only available for input protocols associated to parallel interface
Audio options	Configure all parameters associated to the DMG Caruso integrated speech synthesizer.
Audio volumes	Here you can configure all volumes for different types of audio and video content. Every volume is splitted day-time and night-time. In the same window you can configure the time schedulings.
Screen settings	Configure all parameters to set up resolution of an HDMI external monitor (if present).
Data & Time settings	Matisse has a built in clock. In the event of a power failure, the board will maintain the parameters relating the date and time for 72h, after which it will be essential to re-enter the parameters manually (if not connected to the network).
Network	Here you can configure ethernet network connections. Both DHCP and static addressing are supported.
User files	Here you can manage audio and video files loaded in device memory and micro SD card.
MosaicONE	Here you can register the device to the "Mosaic ONE" remote management system.

Interface options

Setting floor offset



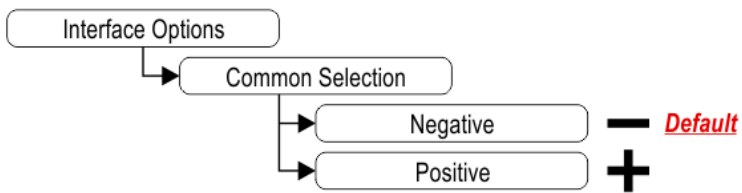
Setting startup screen



1) – It does not display any numbers

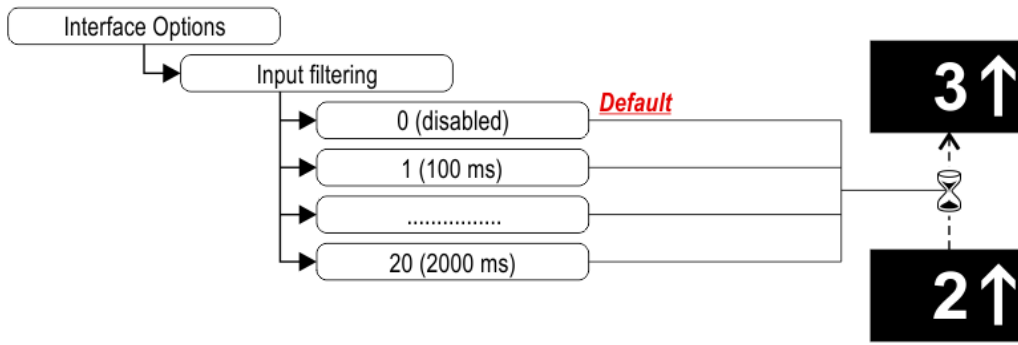
2) – Lowest floor

Setting common input



Setting the display delay of floor change

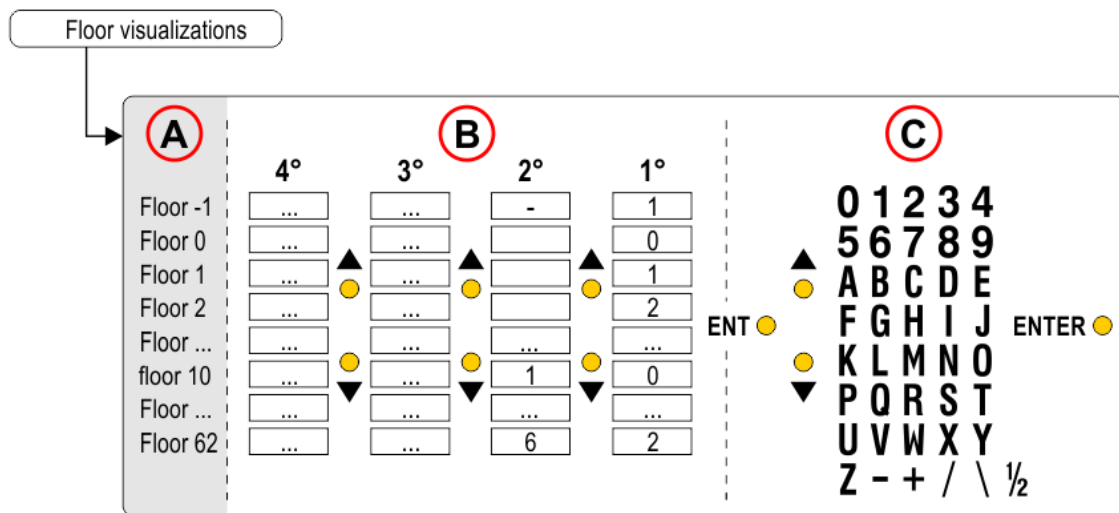
The display delay helps avoiding visualization errors during floor change.



Visualizations of floor

Visualizations of floor

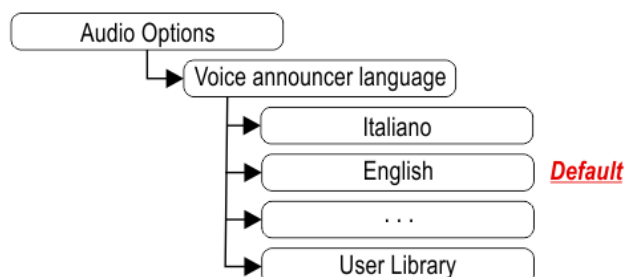
In this screen you can assign visualization to every floor without the need of bringing the elevator car at floor to be assigned.



- A) – Floor
- B) – Symbol (1°, 2°, 3°, 4°)
- C) – Available symbols

Audio options (Setting CARUSO speech synthesizer)

Basic programming



“Floor to message” association is automatic for every language.

Advanced features



A) – Play Gong at floor (Triple Gong)

B) – Direction messages type

C) – Direction messages timing

D) – Voice announcements second language (Automatic)

If enabled, the second language message is played after the first.

E) – Trigger to Floor announcement delay

Allows you to choose the delay of the message playback.

F) – Enable background music player

G) – Current floor First Audio message library

G1) – Current floor First Audio message file

H) – Current floor Second Audio message library

H1) – Current floor Second Audio message file

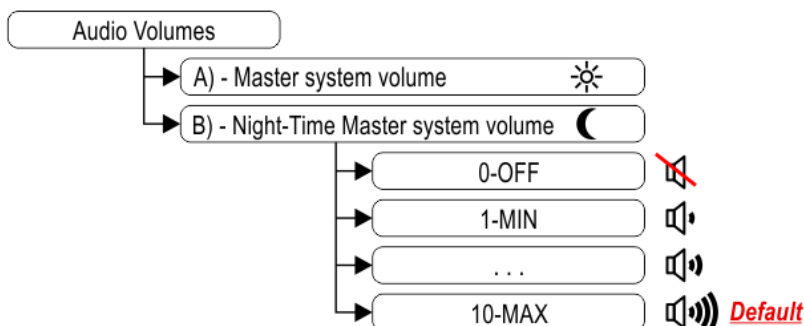
I) – Restore default audio settings

L) – Allows you to modify the messages associated with the floor where the elevator car is currently located.

Audio volumes

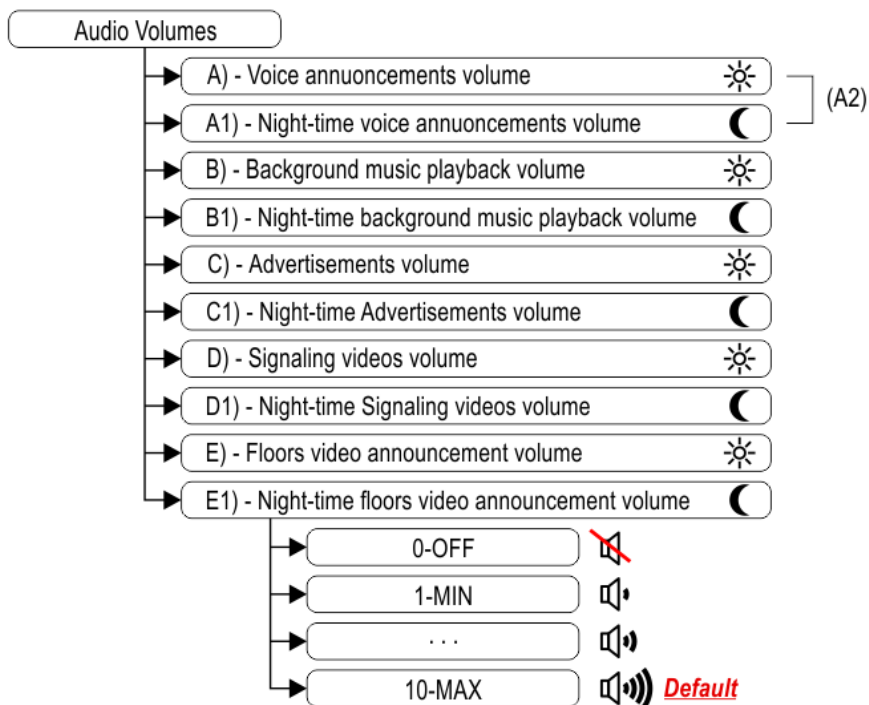
Adjusting master audio level

Sets the overall device output volume.



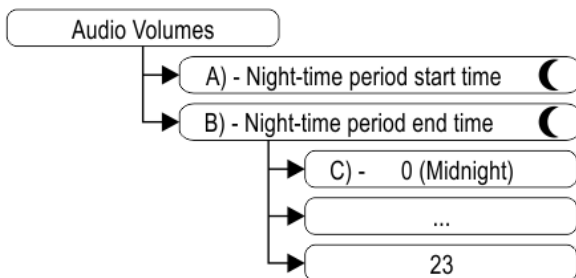
A) – Master system volume

– Detailed audio level adjusting



- A) – Voice announcements volume
- A1) – Night-time voice announcements volume
- A2) – Audio level adjusting of direction, floor and signaling messages.
- B) – Background music playback volume
- B1) – Night-time background music playback volume
- C) – Advertisements volume
- C1) – Night-time Advertisements volume
- D) – Signaling videos volume
- D1) – Night-time Signaling videos volume
- E) – Video announcement volume at floors
- E1) – Night-time video announcement volume at floors

– Adjusting start / end night time



- A) – Night-time period start time
- B) – Night-time period end time
- C) – 0 (Midnight)

Compatible Media Formats

Supported Video File Formats	Supported Audio File Formats	Supported Image File Formats	Supported Video Codecs	Supported Audio Codecs
*.avi	*.mp3	*.jpeg	MPEG2	Mp3
*.mts	*.wav	*.jpg	MPEG4	AACLC
*.mpeg		*.png	H263	HE-AAC
*.mpg		*.bmp	H264	WMA10
*.mp4		*.gif	Vc1	FLAC
*.3gp		*.mng	Vp8	Ogg Vorbis
*.mkv			MJPEG	
*.m4v				
*.mov				



The device support of a certain video type does not necessarily mean that it can be correctly played. Both codecs used to encode audio and video streams inside the file must be supported.

Available Graphic Elements

MosaicONE online software allows customization of graphics.

Type	Description
Background	Can be: an image, a sequence of images, an animation (Gif or Mng) or a video.
Picture	You can add an unlimited amount of static, animated or scrolling pictures to layout.
Text	You can add an unlimited amount of texts to layout. All text graphic features of text are customizable.
Signals viewer	You can visualize Signals as icon, text (fixed or scrolling) or both together. You can also associate an entirely dedicated layout to any signal.
Position Indicator	Visualization of elevator car position.
Direction Indicator	Visualization of elevator car travel direction.
Panel	You can create colored surfaces with configurable transparency.
Clock	You can add an unlimited amount of clocks with different graphics and time zones. The clock automatically switches to summer time.
Date and Time	You can add an unlimited amount of date and time in text format.
Video Advertise	You can create a rectangular window where a video playlist will be reproduced continuously.

Video Signals	You can create a rectangular window where a signal associated video will be played upon signal activation.
Video at floor	You can create a rectangular window where a floor associated video will be played. Reproduction is triggered by when the cabin stops at associated floor (Trigger signal active).
Local Camera	You can create a rectangular window where an USB camera video stream will be rendered.
Remote Camera	You can create a rectangular window where a IP camera video stream will be rendered
HTML viewer (*1)	You can create rectangular window where arbitrary HTML contents will be rendered.
Meteo (*2)	Widget shows meteo forecasts for current and next day in a specified city (source yahoo meteo).
Browser (*2)	You can create a rectangular surfaces where web pages will be visualized with autoscrolling.

(*1) – Web Internet connection might be necessary if web data sources are used.

(*2) – Internet connection required.

Pairing with MosaicONE software

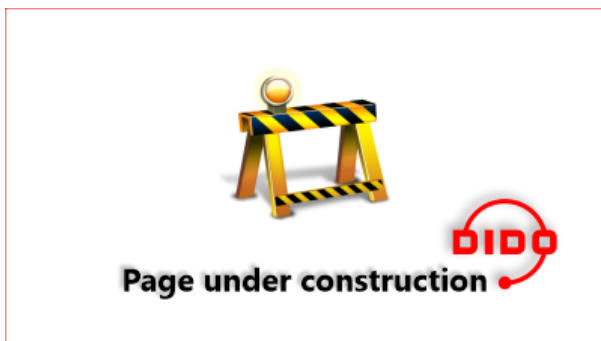
i To see the procedure for pairing a Matisse / DSD device with the MOSAICONE cloud software, visit the link below
[Procedure to pairing Matisse/DSD with MOSAICONE](#)

Datasheet

Dimensions	7"	177,8 x 144 mm (H 20,7 mm)
	10,1"	241 x 169 mm mm (H 35,5 mm)
	15,6"	232,5 x 430,5 mm (H 44 mm)
	15,6" (EN81-71)	271 x 465 mm (H 49 mm)
	18,5"	284 x 497,5 mm (H 49 mm)
	21,5"	324,5 x 564,5 mm (H 49 mm)
Screen (Viewable area)	7"	155 x 94 mm • 800 x 480 pixel • 65.000 colors
	10,1"	222,7 x 125,3 mm • 1024 x 600 pixel • 65.000 colors
	15,6"	193,6 x 334,2 mm • 1920 x 1080 pixel • 65.000 colors
	18,5"	230 x 409 mm • 1920 x 1080 pixel • 65.000 colors
	21,5"	268,1 x 476,6 mm • 1920 x 1080 pixel • 65.000 colors
Power supply (position input)		7"/10" = 24V DC ±10% (*) • 15,6"/18,5"/21,5" = 24V DC ±10% (*) Only 24V rms ±10% if a rectified only (unregulated) voltage source is used. USB: +5V (max 5.25V)
Absorption		DISPLAY

		<p>24Vdc: Max 270mA (7") • Max 330mA (10,1") • Max 150mA (Matisse CPU)</p> <p>Max 600mA (15,6") • Max 700mA (18,5") • Max 800mA (21,5")</p> <p>ANTIPANIC LIGHT</p> <p>12Vdc: Max 380mA (7") • Max 440mA (10,1")</p> <p>24Vdc: Max 240mA (7") • Max 260mA (10,1")</p>
Indicators inputs		<p>S1 / S2 / S3 / S4 / S5 / TRIGGER:</p> <p>12÷24V DC ±10% (opto-isolated)</p> <p>impedance = 3Kohm</p>
Operating temperature		-20°C ÷ +60°C
Hardware specifications	RAM	1 GByte DDR3
	Storage	300 Mbyte available internal storage + SD Card
	On board connectivity	Ethernet: 10/100/1000 Mbit/s; 1 x USB 2.0 Host; 1 HDMI 1.4
	Audio	1W on 8 Ohm Output speaker (External speaker is mandatory)
	Other features	1 x Emergency/Battery supply input; Real Time Clock 4 Buttons UI navigation;

Video Tutorial



Software



Benvenuto in MosaicONE: la piattaforma cloud per la gestione dei display del gruppo DMG

USERNAME O INDIRIZZO EMAIL *

PASSWORD *

Effettuando il login, accetti i nostri [Termini di Servizio](#)

[Ho dimenticato la password](#)

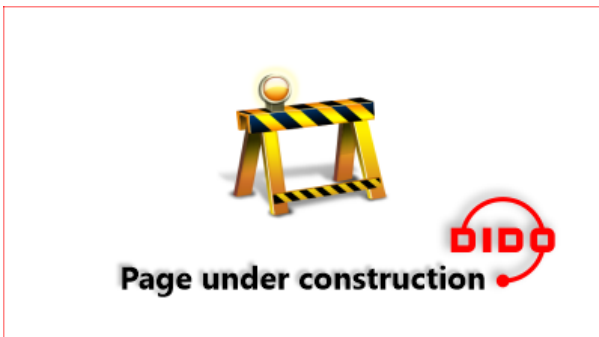
LOGIN

MosaicONE fa parte del gruppo DMG.



[Click here to be redirect](#)

Firmware update



Updated on 24 Maggio 2021