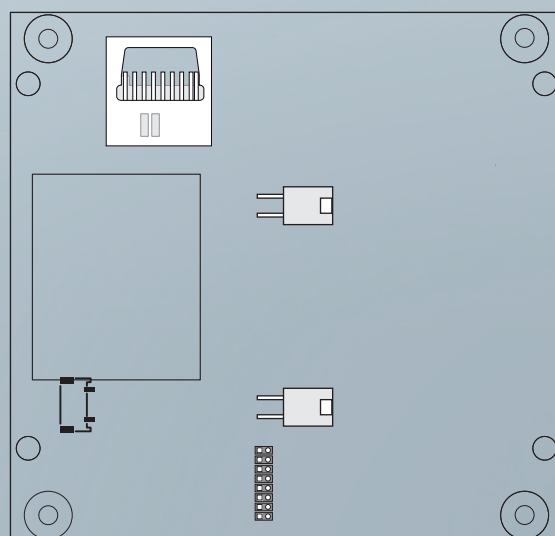
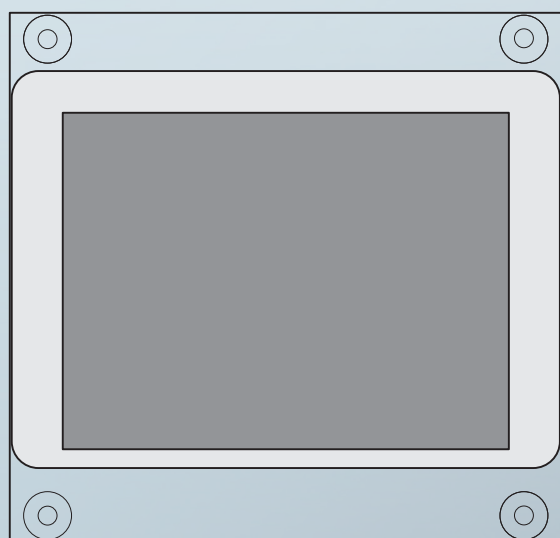




Position indicator



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1 General

The EAZ-TFT position indicators were developed specifically for the FST control system from NEW LIFT. The high-quality TFT display has full graphic capability and can be used in the car and landing call panel. The EAZDesigner software lets you customise your displays right down to the smallest detail. The colour spectrum includes more than 262 000 colours.

1.1 Abbreviations, characters and symbols used

Symbol / abbreviation	Meaning
EAZ	position indicators
★	Delivery condition Settings that are supplied as standard are marked with an asterisk ★.
▶	Operational instructions Perform the tasks that follow this symbol in the specified order.
	Warning notice This symbol is located in front of safety-relevant information
	Information notice This symbol is located in front of relevant information.

1.2 Notation

Notation	Meaning
Bold	› Designations of switches and actuators › Input values
<i>Italics</i>	› Captions › Cross references › Designations of functions and signals › Product names
<i>Bold italics</i>	› Remarks
LCD font	› System messages of the controller

1.3 Further information

The following documents, among others, are available for the FST control system and its components:

- › FST Installation & Commissioning
- › FST manual
- › ADM manual
- › FPM manual
- › SAM manual
- › EAZ-256 manual
- › EAZ-LCD and EAZ-VFD manual
- › Fire recall manual

These and other current manuals can be found in the download area of our website at
<https://www.newlift.de/downloads-311.html>

1.4 How to contact us

If, after referring to this manual, you still require assistance, our service line is there for you:

Phone	+49 89 - 898 66 - 110
E-mail	service@newlift.de
Mon. - Thurs.:	8:00 a.m. - 12:00 p.m. and 1:00 p.m. - 5:00 p.m.
Fr:	8:00 a.m. - 3:00 p.m.

2 Safety

2.1 General safety regulations

The EAZ-256 position indicators must only be operated in perfect working condition in a proper manner, safely and in compliance with the instructions, the valid accident prevention regulations and the guidelines of the local power company.



The safety guidelines of the FST manual and the FST Installation and Commissioning manual always apply.

2.1.1 Applicable standards and guidelines

All EAZ-256 position indicators comply with:

- › the safety guidelines for the construction and installation of passenger and goods passenger lifts (DIN EN 81 Part 1 and 2).
- › the conditions for the erection of high voltage installations with nominal voltages up to 1 kV (DIN VDE 0100).
- › the contact protection measures in the machine room (VDE 0106).
- › the data sheet on safety measures for the installation, maintenance and commissioning of lift systems (ZH 1/312).

2.1.2 Electromagnetic compatibility (EMC)

An accredited inspection authority has inspected the FST control system and its components in accordance with the standards, thresholds and severity levels named in EN 12015/1995 and EN 12016/1995.

The FST control system and its components are:

- › immune to electrostatic discharge (EN 61000-4-2/1995)
- › immune to electrostatic fields (EN 61000-4-3/1997)
- › immune to fast transient disturbances (EN 61000-4-4/1995)

The electromagnetic disturbance field strengths created by the FST control system and its components do not exceed the permissible thresholds. (EN 55011/1997).

2.1.3 Handling electronic assemblies

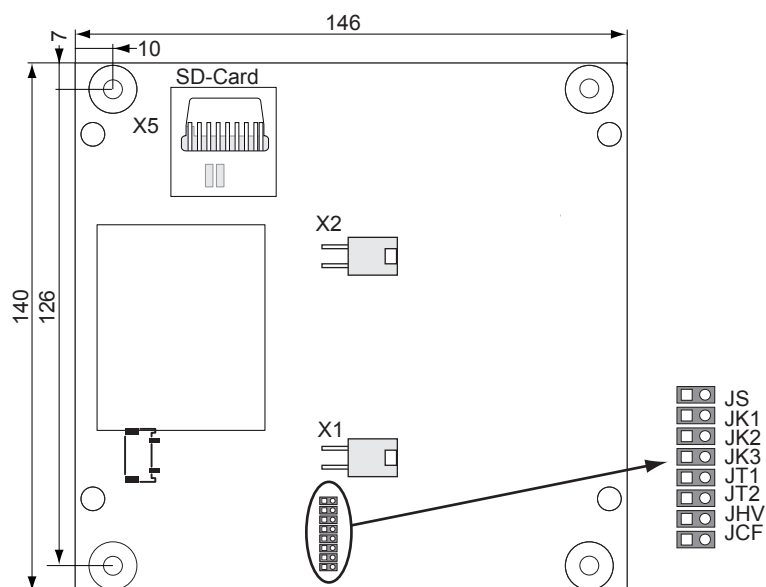
- › Keep the electronic assembly in its original packaging until installation.
- › Before opening the original packaging, a static discharge must be performed. To do this, touch a grounded piece of metal.
- › During work on electronic assemblies, periodically perform this discharge procedure.
- › All bus inputs and outputs not in use must be equipped with a terminal resistor (terminator).

3 EAZ-TFT

The EAZ-TFT can be used as a car and landing display. The installation takes place in the corresponding car and landing call panels.

3.1 Technical data

Description	Value
Supply voltage	24 V DC $\pm 10\%$
Typical power consumption	< 300 mA
Outputs	Short circuit-proof
Length x height x depth	146 x 140 x 40 (+2) mm
Bolts	M4 x 8 mm
Preview window aperture	117.2 x 88.4 mm
Temperature range: Storage & transport / operation	-20 - +70 °C / ± 0 - +60 °C
Relative humidity: Storage & transport / operation (non-condensing)	+5 - +95 % / +15 - +85 %



EAZ-TFT circuit board marking

See appendix for more details.

3.2 Terminal assignment and configuration

3.2.1 Connections

LON bus

The position indicator is connected to the LON bus via sockets X1 and X2.

SD slot

The SD memory card is inserted into the SD X5 slot.

3.2.2 Jumpers

The service jumper JS is not plugged in.

Jumper J1 – J3: FST assignment

FST assignment	JK1	JK2	JK3
FST A	open	open	open
FST B	plugged	open	open
FST C	open	plugged	open
FST D	plugged	plugged	open
FST E	open	open	plugged
FST F	plugged	open	plugged
FST G	open	plugged	plugged
FST H	plugged	plugged	plugged

Jumper JT1: Door side

Installation position	TI
Door side A	open
Door side B	plugged

Jumper JT2

No function yet.

Jumper JVH: Installation position

Installation position	VH
Horizontal	open
Vertical (currently not supported)	plugged





Jumper JCF: Installation site

Installation site	CF
Landing	open
Car	plugged

3.2.3 Configurations via the FST control system

The EAZ-TFT must be selected as the EAZ type before you can make settings via the FST







Setting the EAZ type

- ▶ Config / EAZ Configuration / LON-EAZ Type
- ▶ Set EAZ-TFT with   and confirm with 
- ▶ Exit menu and save settings with .

In addition to the jumper settings, the following settings can be made via the FST menu
Config→EAZ Configuration→LON-EAZ Config:

- › Design selection: NEW *LIFT* provides 16 standard factory designs (0000 **dddd**)
- › Languages: German, English

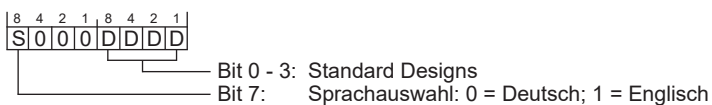
Setting design and language

- ▶ Config / EAZ Configuration / LON-EAZ Config
- ▶ Select the individual digits with   and set the respective digit with   and confirm with 
- ▶ Exit menu and save settings with .

The settings are made according to the following bit pattern. The designs (for an overview, see „Fig. Overview of standard designs with associated bit patterns“ are set according to their valence via bit 0 - 3. The language is set via bit 7.



Overview of standard designs with associated bit patterns



Bit pattern for settings of the EAZ-TFT in the FST menu

3.3 Uploading the software update

- Unzip the Update_Vxxx.zip file and copy the directory update to the existing SD card.



There must be at least one EAZ design on the SD card!!

- Reinsert the SD card into the EAZ-TFT and restart the EAZ-TFT.

The update will run after the boot screen. It takes about 1-5 minutes. Do not switch off the EAZ during this time.

The EAZ automatically restarts following the successful update. The software version is then updated in the boot screen.

4 **EAZDesigner**

NEW *LIFT* has developed the user-friendly *EAZ Designer* specifically for the *EAZ-TFT*. With its graphical Windows interface, the *EAZDesigner* enables the simple, customised design of the *EAZ-TFT*.

4.1 Requirements

PC operating system: XP, Vista or Windows 7 Microsoft .NET Framework 3.5 or higher
PC equipment: Internal or external SD card reader

4.2 Installation

Simply follow the instructions of the installation manager. If you have not yet installed Microsoft .NET Framework on your PC, the latest version of .NET should automatically begin to download.

4.3 Work areas

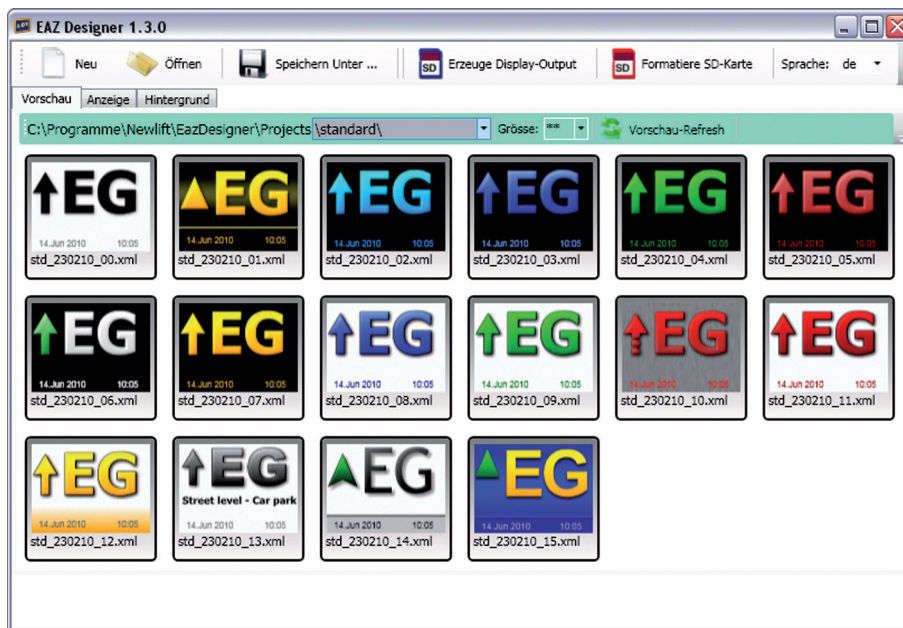
4.3.1 Menu bar

- › **New:** Opens new project
- › **Open:** Opens the project folder of the *EAZDesigner*. This is how to open existing projects.
- › **Save as:** Opens the window to save the current project
- › **Save:** Saves the current project
- › **Create display output:** Opens the window to select the SD card as the storage medium for a finished project
- › **Format SD card:** Formats the SD card
- › **Language:** Language selection

4.3.2 Preview area

All created projects, including the standard designs, can be displayed in the preview area.

For an overview of the standard design, please select the green „standard“ area in the drop-down field. NEW *LIFT* currently offers 16 standard designs that can be used free of charge.



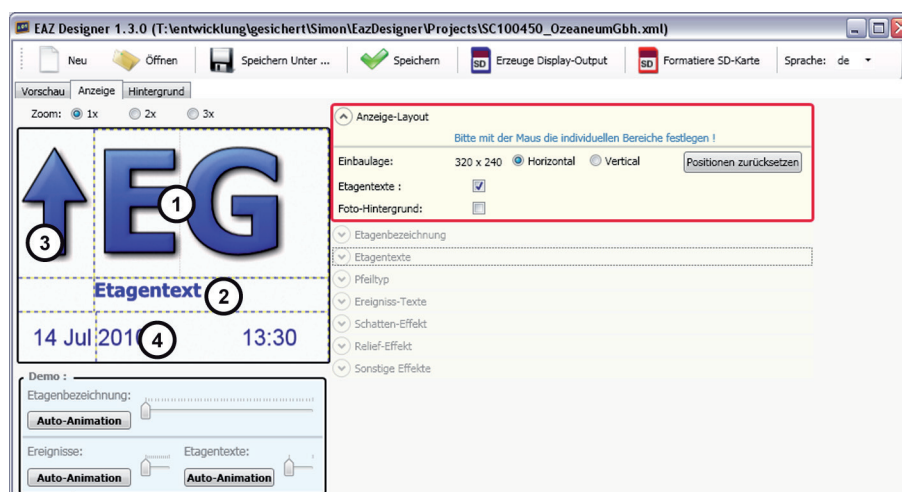
Selection of the standard designs in the EAZDesigner

Opening an existing design

- Select the design and click the open button.
- The program automatically switches to the display area.

4.3.3 Display area

In the display area, you can determine all the settings of your position indicator except for the background.



- ① **Floor name**
Two-digit letter and number combination
- ② **Floor text**
Additional text for each individual floor
- ③ **Directional arrows and departure arrows (only full image)**
Can be placed left, right, above or below the floor text.

④ Event texts

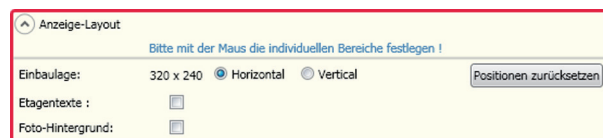
If desired, the date and time are displayed in this area during normal operation. Only when an event is output by the control system (e.g. fire recall) does the corresponding event appear in this area.

You can place the individual display elements using the dotted lines that are always shown as soon as you have opened the display layout menu.

The setting options include the following sub-items

Display layout

The basic orientation and rough positioning of the individual display elements are implemented via the display layout.



Settings options for the display layout

Installation position

- Determine whether the direction of the display is horizontal or vertical under **Installation position**

Floor text

In addition to the floor names (G, B, 1st, etc.), individual floor texts can be added to the floors (lobby, parking garage, ladies department, etc.). The floor text appears below the floor name. It is associated with the floor and must therefore be entered for each floor.

- Activate the **Floor text** checkbox

↳ The list of setting options now also shows the item „Floor text“

Background image

All common image files (JPG, TIFF, PNG) can be used as a background. If it is a picture or other graphic, the shadowing and 3D effects are omitted from the floor names and arrows.

- Activate the **Photo background** checkbox

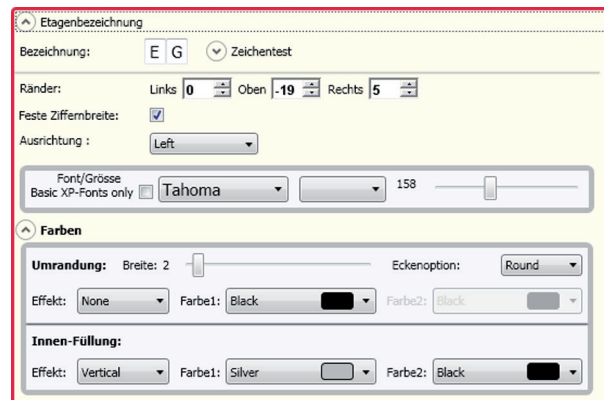
If it is a logo that is placed on a solid-coloured background next to the display elements, all functions are available and the photo background checkbox does not have to be activated.

Positioning the display elements

The position and size of the individual elements can be changed by using the mouse on the dotted lines. This is how to make the first rough settings. Fine adjustments can be made later via the corresponding setting points.

Floor name

Floor names are adopted from the FST by default. Optical adjustments can be made here as follows.



Setting options for floor names

Positioning the floor name

The position of the floor name depends on the selected alignment (align left, centre, right) and the borders (left, top, right)

- Orientation: In the drop-down menu, select between align left, centre and right to align the floor name
- Borders: Change the values left, top, right to finely adjust the positioning of the floor name

Fixed digit width

Because digits have different tracking depending on the font, this can lead to an uneven number continuation when running through the floors. A fixed width can be set for all digits in order to avoid this.

- Activate the fixed digit width checkbox

Fonts

A number of fonts are available in the drop-down menu. Depending on the font family, additional font styles can be selected (regular, bold, extra bold)

Colour settings

The characters can also be customised by borders or colour filling. You can choose between various widths, colours and effects.

Floor texts (if under floor text display layout✓)

Floor texts are texts that are displayed in addition to the floor name (e.g. lobby, parking garage, ladies department, etc.). These texts must be entered individually for each floor.

If the floor text field is not visible, activate the floor text checkbox in the display layout field

Setting options for floor texts

Creating floor texts

- Use the + and - floor buttons to set the desired floor number
- Complete the floor text for the respective floor in the floor text field (line breaks are added with ;)
- If desired, change the font, style, size, colour and border

To check the settings, either click on the respective floor text or on the **Auto animation** floor text button in the demo window below the display.

Forced floor name

You can replace or supplement the default floor names output by the FST using a forced floor name that you have defined.

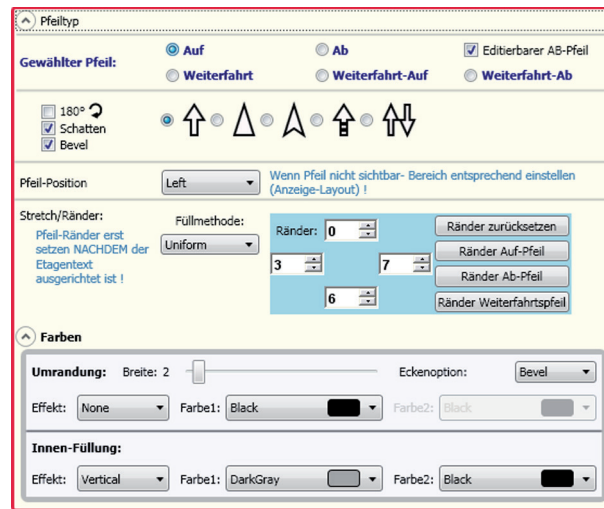
- Activate the **Short description instead of FST text** checkbox
- Enter a short description (up to 5 digits) to replace the text output by the FST or enter a 2-digit text and ** (placeholder for FST text) to supplement the FST text (e.g. **FL: Output of the floors as 1st FL, 2nd FL, etc.)



Numbering: The lowest floor corresponds to floor 0.

Arrow style

The form and colour of all arrow types can be customised independently of each other.



Setting options for arrow styles

Arrow type

- Activate the **Editable down arrow** checkbox if you want to design the up and down arrows differently
- Click on the desired arrow to set its position, form and colour settings

Position

- Select an arrow position from the drop-down menu (left, top, bottom, right)

Fillings & borders

- Use the **Filling method** drop-down menu to determine whether the arrow is to be displayed proportionally or to fit the area
- Make the fine adjustments to the borders in the numeric fields

Colour settings

The characters can also be customised by borders or colour filling. You can choose between various widths, colours and effects.

Event texts

For events, the EAZDesigner provides a list with preset event texts (all can be changed and expanded). If none of the events are active, the date and time output by the FST can be displayed if desired.

Additional informational text can be displayed with each event text. Here the event and informational text are displayed alternately. The informational text can also be used as a translation in order to alternately display German / English.

Ereignis-Texte

Vorschau Teiltext:

Id	Text1;Info1	Text2;Info2
0	Normal	
1	Service	Wartung
2	Emergency-Stop	Ausser Betrieb
6	Fire	Feueralarm!
7	Fire Brigade	Feuerwehrfahrt
8	Overloaded	Aufzug überladen!
9	Full-Load	
10	Remote-Off	Ausser Betrieb
11	Car-Prio	Kabinenvorzug
12	Landing-Prio	Sonderfahrt
13	Landing-Off	Aussenrufe gesperrt
15	Evacuation	Evakuierung
20	FST-Message	Message (30 Zeichen) ABCDE

☐ Datum/Zeit (nur bei Status "Normal" sichtbar)

Text:

Hintergrundfarbe: Textfarbe:

Font: Font-Größe:

Position/Länge: Blinkender Text:

Symbol:

Symbol verwenden: Größe:

Position: Schatten: ☒

Setting options for event texts

Event texts

- Customise the event texts via the Text1;Info1 and Text2;Info2 fields
- Customise the font and background colour as well as the font family and style using the text settings
- Position the floor text using the position/length bar

Informational texts

- Add the desired informational text directly after the event text and separate them with a ;
Example: Emergency stop;Please remain calm
- Activate the **Flashing text** function so that the text and information are displayed alternately

To check the settings, either click on the respective event or on the **Auto-Animation** events button in the demo window below the display. The cursor in the **Preview partial text** indicates which of the event columns (Text1, Info1, Text2 or Info2) is currently being displayed in the preview

Date & time

Under **Date/time** you can choose whether you want to display this information during normal operation

- From the drop-down field, choose the format for the date and
- make fine adjustments to the position using the fields date left, date at top, time left, time at top
- If desired, change the spelling of the name of the month (remember that you may have to reduce the font size)

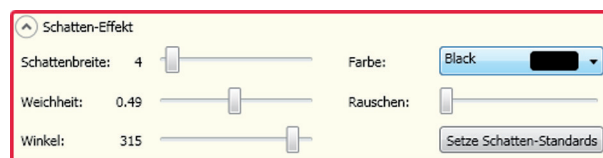
Graphics

Corresponding symbols can be displayed in addition to the event notifications. *NEW LIFT* offers a graphics library to be used free of charge. However, you can also embed custom symbols in png format. The graphics can be displayed as a small icon next to the text or as a full image above the event text.

- ▶ Activate the **Use symbol** checkbox and select a graphic using the ... button
- ▶ With the **Full image** checkbox, determine whether the symbol is to be placed as a small icon next to the event text or as a full image above the event text
- ▶ With the **Shadow** checkbox, determine whether the symbol should have a shadow effect
- ▶ Set the desired size using the **Size** bar and position the graphic using the **Position** bar

Shadow effect

To give the display elements a 3-dimensional appearance, you can add shadowing. Here you can change the shadow width, softness, angle, colour and random noise. All settings can also be reset using the set **Shadow standards** button.



Setting options for shadow effect

Relief effect

The so-called relief effect can provide floor names and arrows with different reliefs. You can decide between the various widths and natures of the effect.



Setting options for floor name

Other Effects

Using this window you can increase the random noise of the display or darken it.

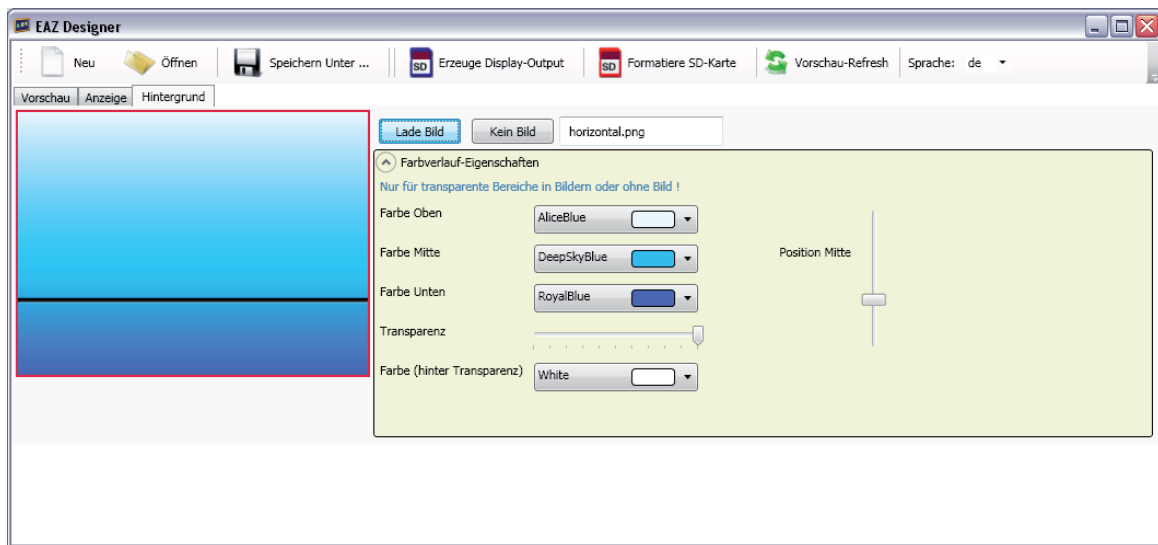


Setting options for other effects

Demo window

- › You will see a window with several auto-animation buttons below the preview. Here you can view floor names, floor texts and events as auto-animations.

4.3.4 Background area



Setting options for the background

Here you can make all of the settings for the background of your position indicator.

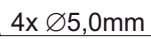
If you would like a background image for your position indicator, you can upload this into the program using the **Upload image** button.

You can, of course, use background colours and gradients instead of a background image.

4.4 Getting started

Here are some procedural tips if you would like to create your personal position indicator.

- › First choose a background (e.g. file with your company logo) in order to be sure that you can later place the display elements accordingly.
- › Now open the display layout field and leave this open during the entire design process. You can change the position of the individual elements at any time by using the dotted lines.
- › In the display layout field, choose whether you would like to display extended floor texts and determine whether you are using a plain background or a photo/other image file.
- › Open the arrow layout field and make sure that the 'editable down arrow' checkbox is deactivated (an activated checkbox is only necessary if you want different up and down arrows. If this is the case, please only activate the checkbox after completing the editing and then make the individual settings for the down or departure arrow).
Now determine whether the arrows are to be placed to the left, right, top, or bottom of the floor text
- › Finally, you can move the dotted lines using the drag and drop function and can thus change the position of the display elements.
Tip: If you want to set the arrows above or below the floor texts or want to display extended floor texts, you must first move the dotted lines before these settings will be visible
- › If you have roughly determined the position of the display elements, you can still make fine adjustments to the position, colour, fonts, etc. in the respective field.



Technical drawing of a window frame cross-section. The drawing shows a green frame profile with a grey sash. Dimensions are indicated on the left: a total height of 42,0mm and a distance of 23,0mm from the bottom of the frame to the center of the sash. A detail callout points to the sash assembly, stating: "4x Kunststoff Abstandsbolzen mit beidseitigem M4 Innengewinde und 23,0mm Länge". A dimension of 2,0±0,1mm is shown for the distance between the sash and the frame.

Alle Toleranzen $\pm 0,2\text{mm}$ sofern nicht anders angegeben!

NOTES

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