OPERATING INSTRUCTIONS

SIEGENIA®
brings spaces to life

DRIVE

GENIUS 2.2

Electromechanical multi-point lock

Window systems

Door systems

Comfort systems

Inhalt

1 About this documentation

1.1 Target group

This information is intended for end users.

The target group comprises all persons who carry out the following activities:

- operation and maintenance of KFV products
- operation and maintenance of installed door elements that are equipped with KFV products.

The following persons may only operate the product if they have understood the dangers involved in handling the product or if they are supervised during operation:

- children
- persons with diminished physical, sensory or mental capabilities
- persons with a lack of experience and knowledge

children must not play with the product.

1.2 Product description

The GENIUS 2.2 is an electromechanical multi-point lock for the motorised locking and unlocking of doors.

These operating instructions are an integral part of the GENIUS 2.2 and must be accessible to the target group all the time.

1.3 Producer

KFV Karl Fliether GmbH & Co. KG
A company of the SIEGENIA GROUP
Siemensstraße 10
42551 Velbert

1.4 Dimensions

All dimensions are given in millimetres (mm).

1.5 Applicable documents

The following applicable documents about the GENIUS 2.2 must be observed:

- Quick info:

  https://www.siegenia.com/qr/service/genius2-2-b

- Assembly instructions:

  https://www.siegenia.com/qr/service/genius2-2-b

1.6 Symbols used

The following icons are used in this document:

	General warning symbol
	Useful information or advice

The following symbols for the LEDs are used in this document:

	LED off
	LED lights up
	LED flashes
	LED flashes alternatively in the indicated colours

2 Safety

2.1 Intended use

- The GENIUS 2.2 is suitable for installation in timber, aluminium, steel and PVC entrance doors.
- Use the GENIUS 2.2 as shown below:
  - in a technically sound condition
  - only with original KFV products and accessories
- Do not interfere with and/or make any modifications to the GENIUS 2.2.
- Foreign objects and/or materials which impede or prevent proper use must not be placed within the opening range, the locking system or the striker plates.
- Locking elements must not be misused to hold the door open.

2.2 Transport

- The transit support provided must remain in the main lock during the transport of a pre-assembled door without cylinder lock.
- In the installed and non-installed status of the multi-point lock, ensure that the locking elements are in the release position.
- Multi-point locks are sensitive components and must therefore be handled with care. For example, they must not be thrown, hit hard or bent.
- Do not carry the door by the lever handle or hardware when transporting it.

2.3 Safety notes

- All work on the 230 V AC mains power supply must be carried out in compliance with the current German VDE regulations (e.g., VDE 0100) and any relevant country-specific requirements.
- All-pole safety isolation should be used when routing the network connection cable on-site.
- Wiring the unit incorrectly can irreparably damage its electronic components.
- If energy-carrying cables are routed in parallel to data cables (ISDN, DSL, etc.), this could lead to interference e.g. in the speed of the data transmission. Only use the shielded original KFV cable.

2.4 Structure of the warning notes

The warning notes in these instructions

- when observed, provide protection against potential personal injury and material damage,
- classify the level of danger by the signal word,
- designate the danger of personal injury via the hazard sign,
- define the type and source of danger,
- show measures to prevent hazards and prohibit specific behaviour.

The warning notes are set up according to the following principle:

⚠ SIGNAL WORD

Type and source of danger

Explanation of the type and source of danger

- Measures for the prevention of the danger

The hazard sign designates warning notices that warn of personal injury.

The type and source of the hazard defines the cause of the hazard. The potential consequences of non-observation of warning notices are e.g. danger to life due to electric shock.

Under measures, actions are listed that must be carried out for the prevention of hazards or which are prohibited for the prevention of a hazard.

2.5 Warning notes used

⚠ DANGER

The signal word "Danger" designates an immediately threatening danger. If this hazard is not prevented, it leads to death or severe injuries.

⚠ WARNING

The signal word "Warning" designates a potential hazard. If this hazard is not prevented, it could lead to death or severe injuries.

⚠ CAUTION

The signal word "Caution" designates a potentially hazardous situation. If this hazardous situation is not prevented, it could lead to minor or moderate injuries.

NOTICE

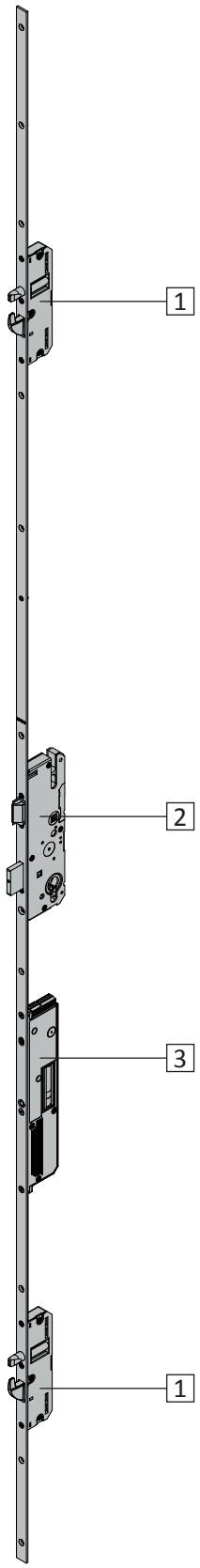
The signal word "Notice" defines actions for the prevention of material damage. The observation of these notices prevents damage to the components.

Information, advice etc.

This symbol indicates special features and designates facts that require increased attention.

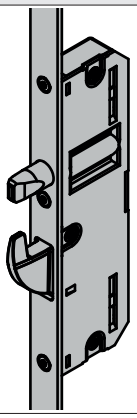
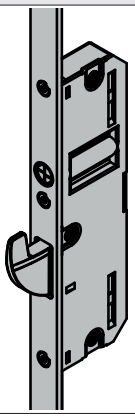
3 Components and variants

GENIUS 2.2



Components	
1	**Auxiliary box**
2	**Main lock**
3	**Electromechanical drive**

Variants of auxiliary boxes 1

GEN AS 2600	GEN AS 2500	GEN AS 2300
		

Variants of functions:

Functions	GENIUS version			
	EA	EB	CA	CB
Opening via the profile cylinder	●	●	●	●
Opening via an E-button (optional)	●	●	●	●
Opening via an access control system (optional)	●	●	●	●
SI-BUS interface	●	●	●	●
Comfort function: release via lever handle on the inside of the door			●	●
Switchover of day / night mode with external clock timer		●		●
Feedback contact for external systems such as motorised door drive or alarm systems.		●		●

4 Functions

4.1 Locking and release

4.1.1 Lock

Day mode

In day mode the door can be locked manually with the cylinder key. All locking elements are extended in the process.

Night mode

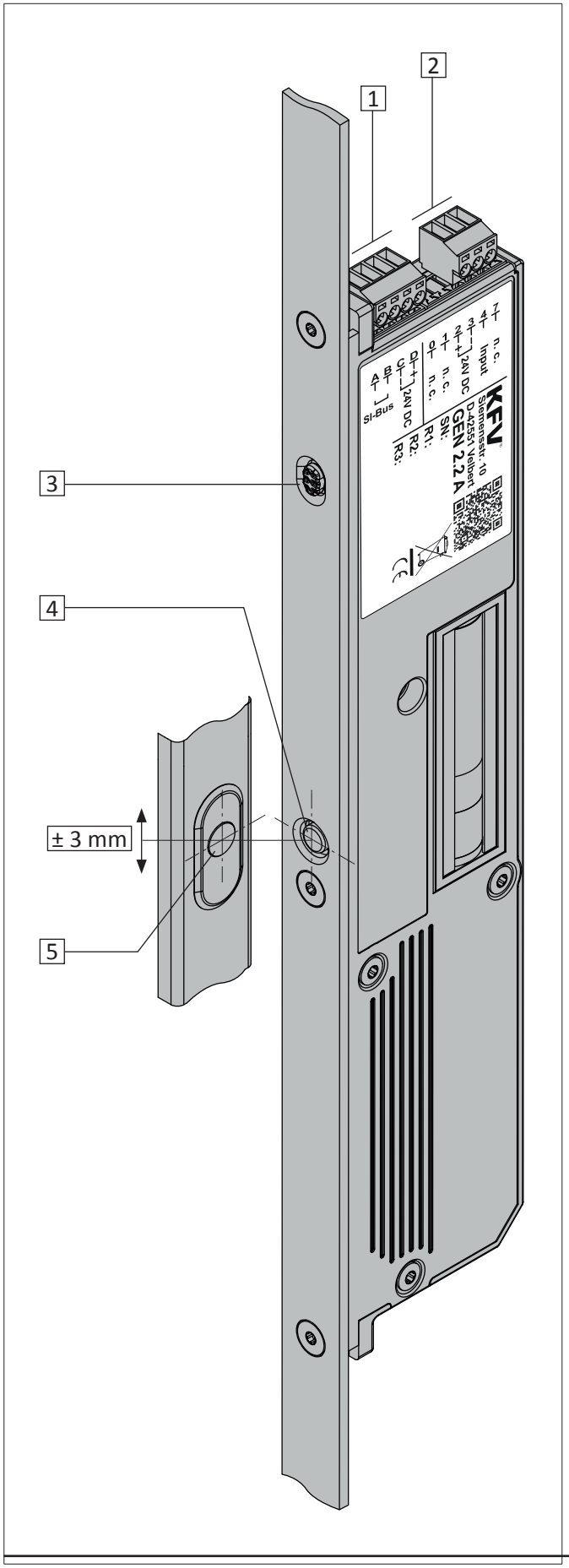
In night mode the door is locked automatically when it is closed. All locking elements are extended in the process

4.1.2 Release

The multi-point lock with GENIUS 2.2 can be unlocked from the inside via the cylinder lock, the lever handle, the horizontal actuating bar or via an optional access control system. For this purpose, the key must be fully activated as far as the release stop or the relevant hardware or triggered via an opening impulse from the access control system: all locking elements including the latch are retracted.

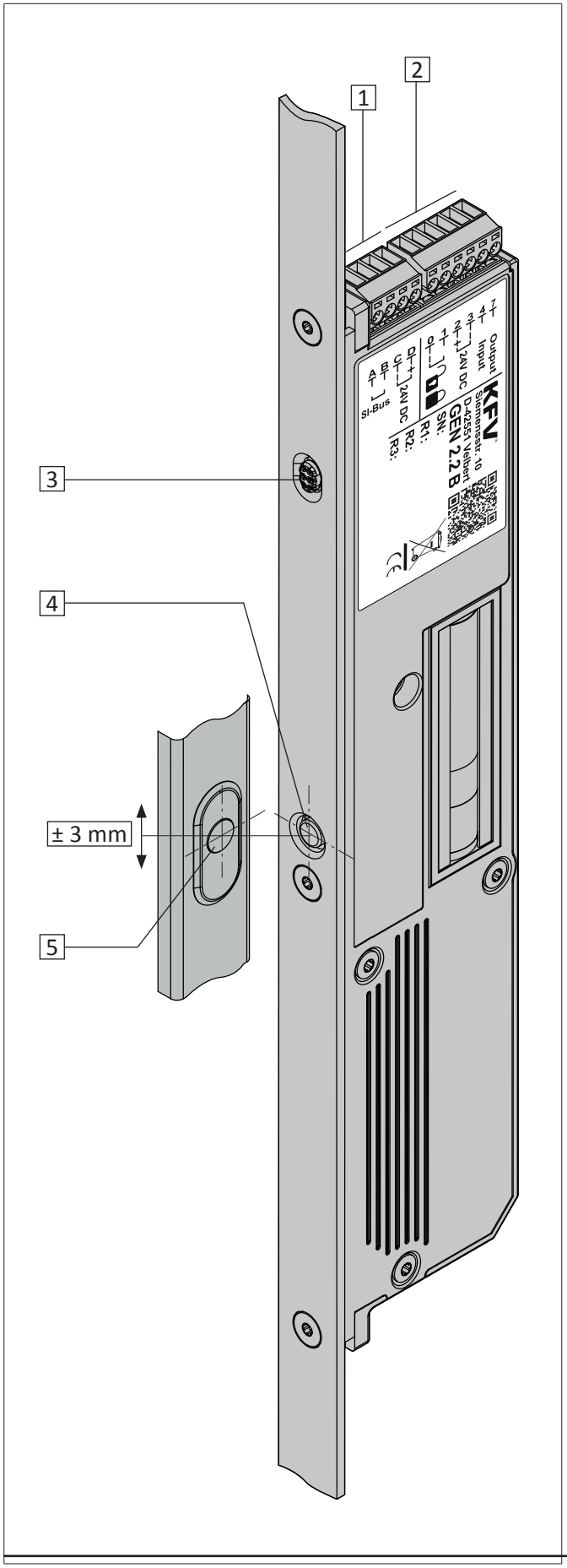
- To lock or unlock the door with the cylinder key, always turn it as far as it will go. The cylinder key must then be turned back some way before it can be removed from the cylinder lock.
- If the door is released automatically, it remains open for 7 s and an acoustic signal will be audible for this period. If the door is opened during this period, the signal tone will switch off.
- The multi-point lock with GENIUS 2.2 will return to the locking position if the door is not opened during this period. The multi-point lock with GENIUS 2.2 locks mechanically automatically if the door is closed.
- Opening the door via cylinder lock, lever handle, or horizontal actuating rod is only admissible during motor shutdown.
- Opening during the locking process leads to cancellation. The multi-point lock with GENIUS 2.2 moves to the "unlocked" position and the latch is drawn into the cylinder operated lock.
- The door must be opened and closed before it can be locked electro-mechanically. The multi-point lock with GENIUS 2.2 then moves to the 'locked' position.

4.2 Connections and operating elements GENIUS 2.2 (EA / CA)



Item	Function
[1]	**SI-BUS connection:** terminal A/B: data interface SI-BUS Terminal C: supply voltage (-) GND Terminal D: supply voltage + 24 V DC
[2]	**Analogue connection:** Terminal 2: supply voltage + 24 V DC Terminal 3: supply voltage (-) Terminal 4: input for external unlocking signal at + 24 V DC ≥ 1 seconds = opening process
[3]	Button with menu LED for menu navigation to make all adjustments of the GENIUS 2.2 A.
[4]	• Status LED to indicate the current operating status • Magnetic sensor
[5]	**Magnet (frame side):** the magnet must be positioned centrally in relation to the magnetic sensor [4] (permissible vertical tolerance ± 3 mm)

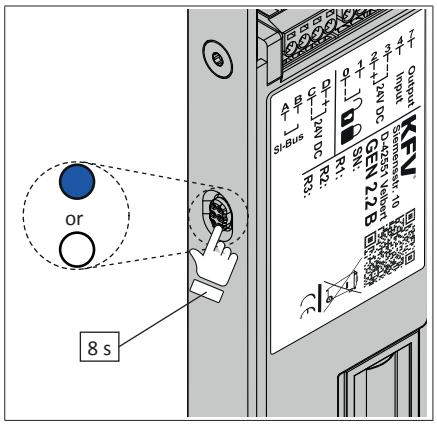
4.3 Connections and operating elements GENIUS 2.2 (EB / CB)

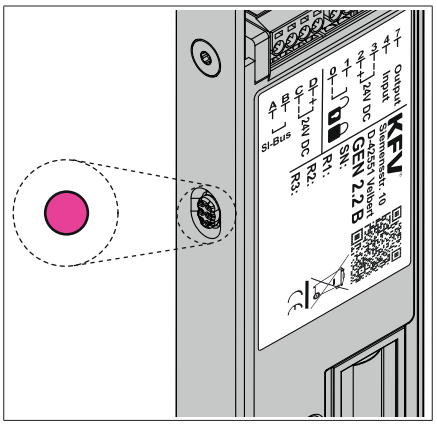


Item	Function
[1]	**SI-BUS connection:** terminal A/B: data interface SI-BUS Terminal C: supply voltage (-) GND Terminal D: supply voltage + 24 V DC
[2]	**Analogue connection:** Terminal 0/1: mode of operation switch day/night mode Terminal 2: supply voltage + 24 V DC Terminal 3: supply voltage (-) Terminal 4: input for external unlocking signal at + 24 V DC ≥ 1 seconds = opening process Terminal 7: feedback function for the locking status indicator (adjustable via menu)
[3]	Button with menu LED for menu navigation to make all adjustments of the GENIUS 2.2 B.
[4]	• Status LED to indicate the current operating status • Magnetic sensor
[5]	**Magnet (frame side):** the magnet must be positioned centrally in relation to the magnetic sensor [4] (permissible vertical tolerance ± 3 mm)

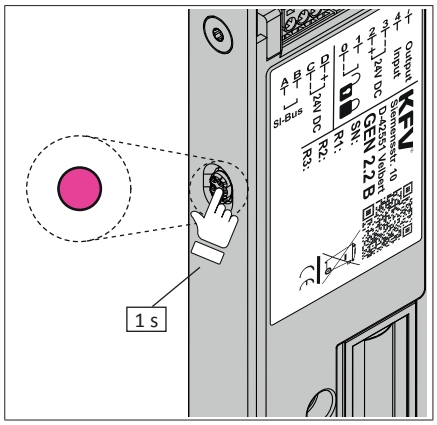
5 Operation

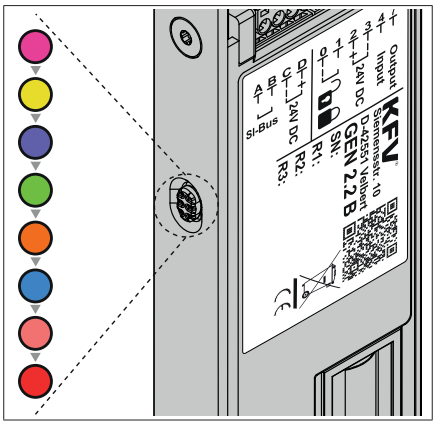
5.1 Menu navigation



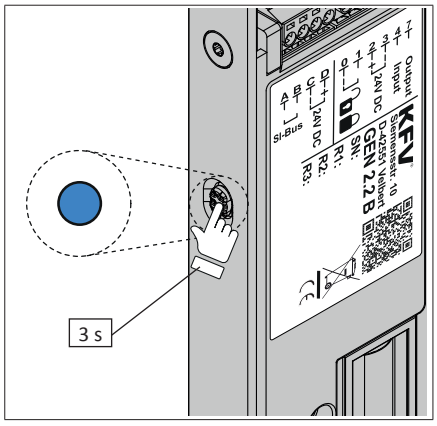


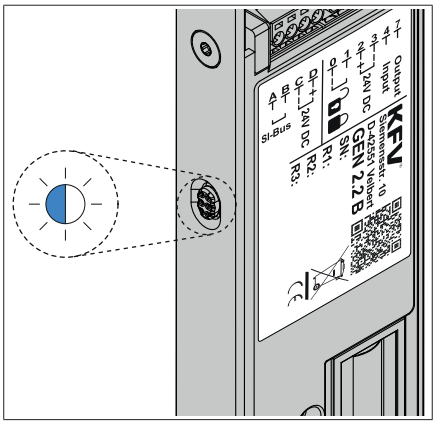
- To proceed to the menu, press the button on the GENIUS 2.2 for 8 seconds until the menu LED magenta lights up. The LED lights up blue or white during these 8 seconds.
- An acoustic signal sounds as acknowledgement.



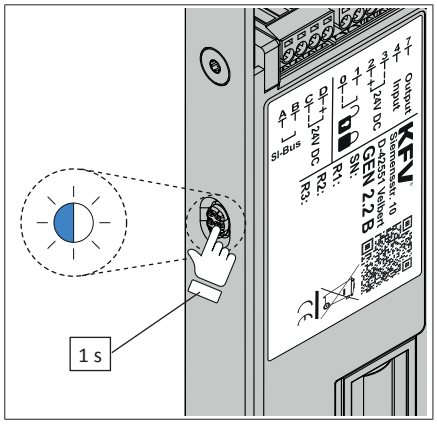


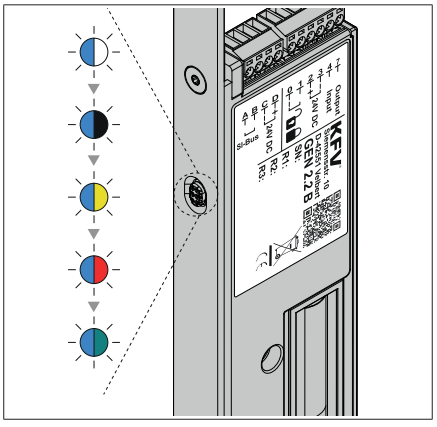
- Press the menu button for 1 second to change to level 1 (see 11) in the menu items.
- Every press of a button is acknowledged by an acoustic signal.



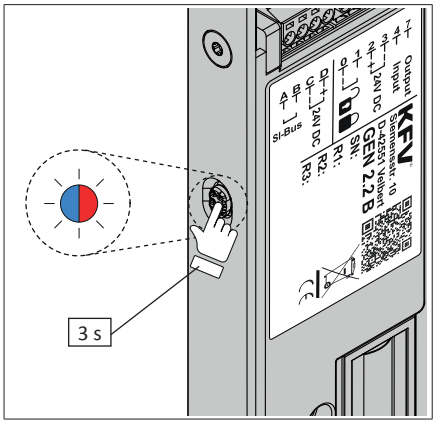


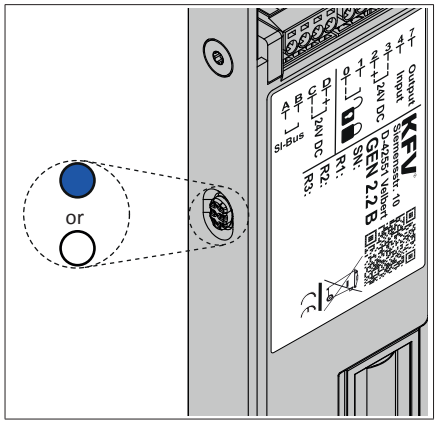
- To select a level 1 menu, hold down the menu button on the relevant main menu for 3 seconds.
- An acoustic signal sounds as acknowledgement.
- The selected function in level 2 is indicated by colour alternating flashing (figure shows level 1 menu "light blue").





- Press the menu button for 1 second to change the functions in level 2 (see page 11).
- Every press of a button is acknowledged by an acoustic signal.

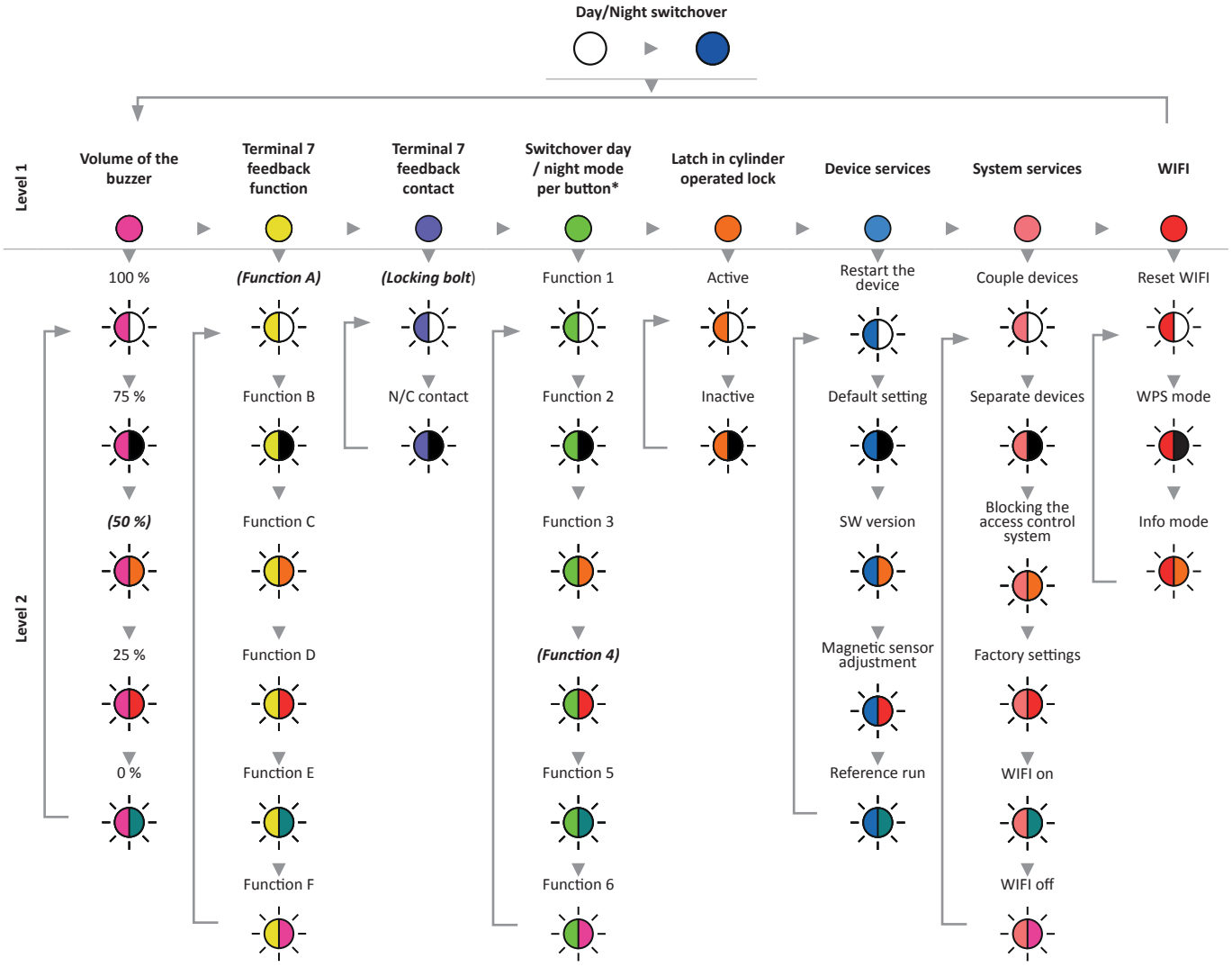




- Hold down the button for 3 seconds to select a function.
- An acoustic signal sounds as acknowledgement.
- You will exit the menu.

The menu settings are terminated without changes if there are no entries within a timeout of 30 seconds.
The status LED will switch off if the button is not activated for 2 minutes.

5.2 Menu structure



The menus for terminal 7 (yellow and lilac) are only available with GENIUS 2.2 B.
The default values on delivery are displayed in bold italics in brackets (example: ***(50%)***).

5.3 Menu functions

5.3.1 Set day / night mode manually

The GENIUS 2.2 enables use in two different modes of operation.

In day mode the door is only used in latch function, the door is not completely locked when it is closed.

This mode of operation is recommended for frequently used doors.

Access without authorisation is possible in combination with an optional day latch.

In night mode the door is locked automatically when it is closed. This mode of operation is recommended for doors with normal levels of use, e. g. in detached houses and apartments.

The following values can be set:

LED	Explanation
○	Day mode
●	Night mode

Menu structure

Day/Night switchover

○ ▶ ●

Operating sequence

Step	Press the menu button	LED	Explanation
1 ▶	1 s ▶	● Dark blue	Switchover to night mode
	▼		
2 ▶	1 s ▶	○ White	Switchover to day mode

5.3.2 Volume of the buzzer

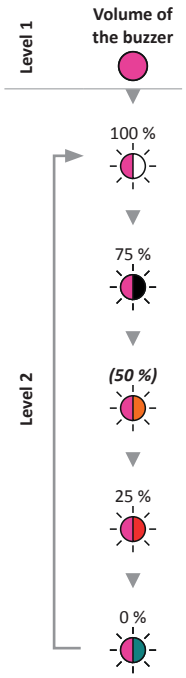
The buzzer delivers the acoustic feedback of the opening process or malfunction.

The volume for the feedback of the opening process is adjustable in five stages from 0 % to 100 %. Coupled to this is the sound volume of the button of the menu button with exception of the stage 0%. The volume remains at 25% here.

The following values can be set in the menu „volume of buzzer“:

Value	LED	Explanation
100 %		Volume of the buzzer is set to 100 %.
75 %.		Volume of the buzzer is set to 75 %.
(50 %)		Volume of the buzzer is set to 50 % (default value).
25 %.		Volume of the buzzer is set to 25 %.
0 %.		Volume of the buzzer is set to 0 %.

Menu structure



Operating sequence

Step	Press the menu button	LED	Explanation
1 ▶	8 s ▶	Magenta	Retrieve menu settings
▼			
2 ▶	3 s ▶	(Example)	Display of the current set values (Default value: 50 %)
▼			
3 ▶	(X) x 1 s ▶	Magenta/ white to Magenta / turquoise	Changing the values to the desired value: 100 % -> 75 % -> 50 % -> 25 % -> 0 %
▼			
4 ▶	3 s ▶	(Example)	Select value, save and exit menu

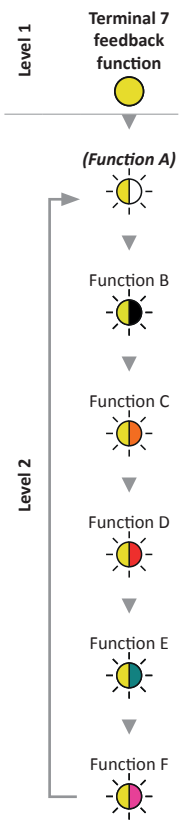
5.3.3 Feedback function (only for GENIUS 2.2 EB / CB)

The feedback function provides information on the status of the selected functions via an output contact (e. g. door closed and locked). This makes a potential-free switching output available for third party systems (e. g. alarm systems).

The following values can be set in the menu "terminal 7 feedback function":

Value	LED	Explanation
(Function A)		Door closed and locked (standard value)
Function B		• In day mode -> door closed • In night mode -> door closed and locked
Function C		Latch drawn
Function D		• Active error • Latch drawn or multi-point lock in locking or unlocking process • Locked • Not locked
Function E		Unlocked
Function F		No active error: terminal 7 active

Menu structure



Operating sequence

Step	Press the menu button	LED	Explanation
1	8 s	Magenta	Retrieve menu settings
2	1 x 1 s	Yellow	Change to menu „Terminal 7 feedback function“
3	3 s	(Example)	Display of the current set values (Default value: function A)
4	(X) x 1 s	Yellow/ White to Yellow/ Magenta	Changing the values to the desired value: Function A to function F
5	3 s	(Example)	Select value, save and exit menu

5.3.4 Feedback function (only for GENIUS 2.2 EB / CB)

The feedback contact can also be set in its function as a locking bolt or as an opener.

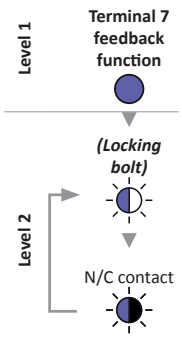
If the function "Locking bolt“ is selected, this will switch on the coupling relay when the status of the selected function is fulfilled (e. g. door closed and locked).

If the function "Opener" is selected, this will switch on the coupling relay when the status of the selected function is fulfilled (e. g. door closed and locked). The feedback contact must be set to "Opener" for feedback to an alarm system. The coupling relay status will be retained if the supply voltage should fail in this setting.

The following values can be set in the menu "Terminal 7 feedback function":

Value	LED	Explanation
(Locking bolt)		The feedback contact functions as a locking bolt
N/C contact		The feedback contact functions as an opener

Menu structure



Operating sequence

Step	Press the menu button	LED	Explanation
1	8 s	Magenta	Retrieve menu settings
2	2 x 1 s	Lilac	Change to menu "Terminal 7 feedback contact"
3	3 s	(Example)	Display of the current set values (Default value: locking bolt)
4	(X) x 1 s	Lilac/ White to Lilac/Black	Changing the values to the desired value: Locking bolt and opener

5.3.5 Day/Night switchover

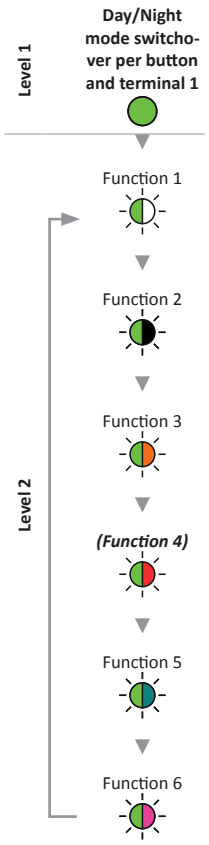
The Day / Night switchover mode can be activated via the button with menu LED or via the terminal 1. Different pre-settings can be made. e.g. the button with menu LED can be deactivated and, in return, an external switch activated in order to exclude an unauthorised switchover of the Day/Night mode on the GENIUS 2.2. The last status set on the button remains.

Day operation is active when terminal 1 is locked via a potential-free make contact. Night operation is active when the make contact is open.

The following values can be set in the menu "Day/Night switchover per button and terminal 1":

Value	LED	Explanation
Function 1		Button inactive / terminal 1 inactive
Function 2		Button inactive / terminal 1 active
Function 3		Button active / terminal 1 inactive
(Function 4)		Button active / terminal 1 active: the mode of operation can be reset via terminal 1 or via the button.
Function 5		Day mode via terminal 1 active = single switchover to night mode via button is possible.
Function 6		Night mode via terminal 1 active: single switchover to day mode and back to night mode via button is possible.

Menu structure



Operating sequence

Step	Press the menu button	LED	Explanation
1	8 s	Magenta	Retrieve menu settings
2	1 x /3 x 1 s*	Green	Change to menu "Day/Night switchover per button and terminal 1"
3	3 s	(Example)	Display of the current set values (Default value: function 4)
4	(X) x 1 s	Green/ White to Green/ Magenta	Changing the values to the desired value: Function 1 to function 6
5	3 s	(Example)	Select value, save and exit menu

* GENIUS 2.2 (EA / CA) / GENIUS 2.2 (EB / CB)

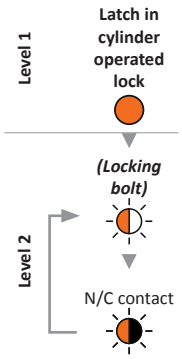
5.3.6 Cylinder operated lock

For special variants of GENIUS (e. g. GENIUS 2.2 PANIC with function B) or for locks without a main lock case, the function must be set to "Inactive" in the menu item "Latch in cylinder operated lock".

The following values can be set in menu "Latch in cylinder operated lock":

Value	LED	Explanation
(Active)		Adjustment for latches with motorised latch retraction
Inactive		Adjustment for latches without latch retraction

Menu structure



Operating sequence

Step	Press the menu button	LED	Explanation
1	8 s	Magenta	Retrieve menu settings
2	2 x /4 x 1 s*	Orange	Change to menu „Latch in cylinder operated lock“
3	3 s	(Example)	Display of the current set values (Default value: active)
4	(X) x 1 s	Orange/ White to Orange/ Black	Changing the values to the desired value: Active and inactive
5	3 s	(Example)	Select value, save and exit menu

* GENIUS 2.2 (EA / CA) / GENIUS 2.2 (EB / CB)

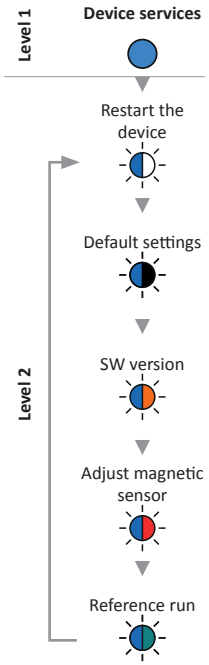
5.3.7 Device services

The menu "Device services" is for the purpose of commissioning or service.

The following functions can be carried out in the menu „Device services“:

Value	LED	Explanation
Restart the device		Restarts the system
Default setting		Resets the GENIUS to the default settings
SW version		The installed software version can be determined via a LED sequence.
Adjust magnetic sensor		Manual adjustment of the magnetic sensor
Reference run		Teaching in travel range during initial commissioning

Menu structure



Operating sequence

Step	Press the menu button (or)	LED	Explanation
1	8 s	Magenta	Retrieve menu settings
2	3 x /5 x 1 s*	Light blue	Change to menu „Device services“
3	3 s		Display of the first menu item
4	(X) x 1 s	Light blue/ White to Light blue/ Magenta	Change to the desired function
5	3 s	(Example)	Carry out function

* GENIUS 2.2 (EA / CA) / GENIUS 2.2 (EB / CB)

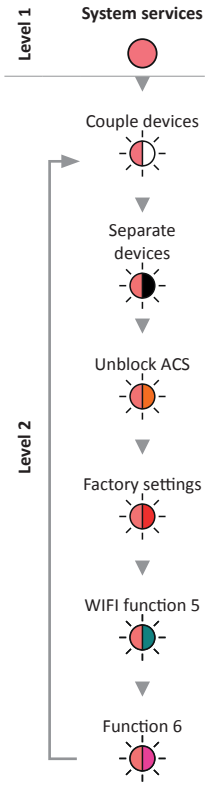
5.3.8 System services

The menu „System services“ provides functions, which can be used in conjunction with the SIEGENIA access control systems (ACS). The menu can be retrieved up to 10 minutes following the system start. A warning signal sounds if an attempt is made to retrieve the menu beyond the period.

The following functions can be carried out in the menu „system services“:

Value	LED	Explanation
Couple devices		Couple all devices connected via the SI-BUS with GENIUS (See instructions for SIEGENIA access control systems)
Separate devices		Separate all devices that are not connected via the SI-BUS from GENIUS. All devices that are no longer connected to the SI-BUS will be removed from the SI-BUS. All devices that are still connected remain coupled. The devices that are to be separated may no longer be physically connected to the SI-BUS.
Unblock ACS		Premature unblocking of the SIEGENIA ACS, which has been blocked for a specific period due to erroneous information.
Factory settings		The following adjustments are reset to the factory settings: • All device couplings • Complete user administration • All device names • All system names • WIFI configuration • Log entries (access log) • Keyless settings • Default settings
WIFI on		Switches WIFI on to use the SIEGENIA Comfort app
WIFI off		Switches WIFI off, the SIEGENIA Comfort APP can not be used.

Menu structure



Operating sequence

Step	Press the menu button	LED	Explanation
1	8 s	Magenta	Retrieve menu settings
2	4 x /6 x 1 s*	Bright red	Change to menu „System services“
3	3 s		Display of the first menu item
4	(X) x 1 s	Light red/ White to Light red/ Magenta	Change to the desired function
5	3 s	(Example)	Carry out function

* GENIUS 2.2 (EA / CA) / GENIUS 2.2 (EB / CB)

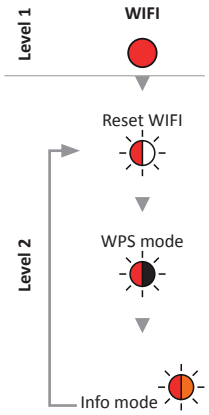
5.3.9 WIFI

The menu „WIFI“ provides WIFI functions, which can be used in conjunction with the SIEGENIA access control systems (ACS). The menu can be retrieved up to 5 minutes following the system start. A warning signal sounds if an attempt is made to retrieve the menu beyond the period.

The following functions can be carried out in the menu „WIFI“:

Value	LED	Explanation
Reset WIFI		The following WIFI adjustments are reset to the factory settings: • SSID • Unencrypted WIFI • Password
WPS mode		Coupling the devices via the the WPS mode in the home network. Following activation of this function, the SIEGENIA ACS searches 2 minutes for a WIFI access point with WPS mode. The WIFI configuration is received and the WIKI connection is set up. The SIEGENIA ACS can be accessed via SIEGENIA Comfort app
Info mode		Issue of the SSID and the serial number of the GENIUS via SIEGENIA Comfort app. The info mode will end after 2 minutes.

Menu structure



Operating sequence

Step	Press the menu button	LED	Explanation
1	8 s	Magenta	Retrieve menu settings
2	5 x /7 x 1 s*	Bright red	Change to menu „WIFI“
3	3 s		Display of the first menu item
4	(X) x 1 s	Light red/ White to Light red/ Magenta	Change to the desired function
5	3 s	(Example)	Carry out function

* GENIUS 2.2 (EA / CA) /GENIUS 2.2 (EB / CB)

5.4 Status LED and troubleshooting

LED		Buzzer	Description	Action	Comment
	lights up green		Disturbance-free		
	Flashes green		Opening signal is present		
	Flashes yellow		Faulty contact of the connecting clamps	Check connecting clamps	Contact service partner if the error persists.
	Lights up yellow		Limited function		Contact service partner if the fault persists.
	Flashes yellow		Magnetic sensor malfunction	Manual adjustment of the magnetic sensor (see assembly instruction)	Contact service partner if the error persists.
	Flashes yellow/ green		Locking elements are extended when the door is open	Release door before closing	
	Lights up red		Supply voltage defective	Check the supply voltage	If the fault persists Contact service partner if the fault persists.
			Operating voltage exceeded	Check the ambient temperature	
			Adjustment of magnetic sensor failed	Check position of magnet	
	Lights up red		Error in the control unit		Contact service partner if the fault persists.
	Flashes red		Block drive with opening procedure	Check for mechanical sluggishness	If the fault persists Contact service partner if the fault persists.
				Check free-running cylinder	
				Check locking elements for smooth running	

5.5 Service partners

You can find your regional partner on the following website:

https://www.siegenia.com/en/service/localdealer

6 Further information

You will find further information on the operation of the GENIUS 2.2 (e.g. in conjunction with the SIEGENIA access control system) as well as all FAQs on the topic of „SIEGENIA Smarthome“ on the following SIEGENIA Internet page:

https://smarthome.siegenia.com

7 Disposal

- The multi-point lock and the optional accessories should not be disposed of with household waste. Comply with the current local and national regulations.
- The packaging consists of raw materials that can be recycled and can be taken to the local recycling disposal site.

www.siegenia.com

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