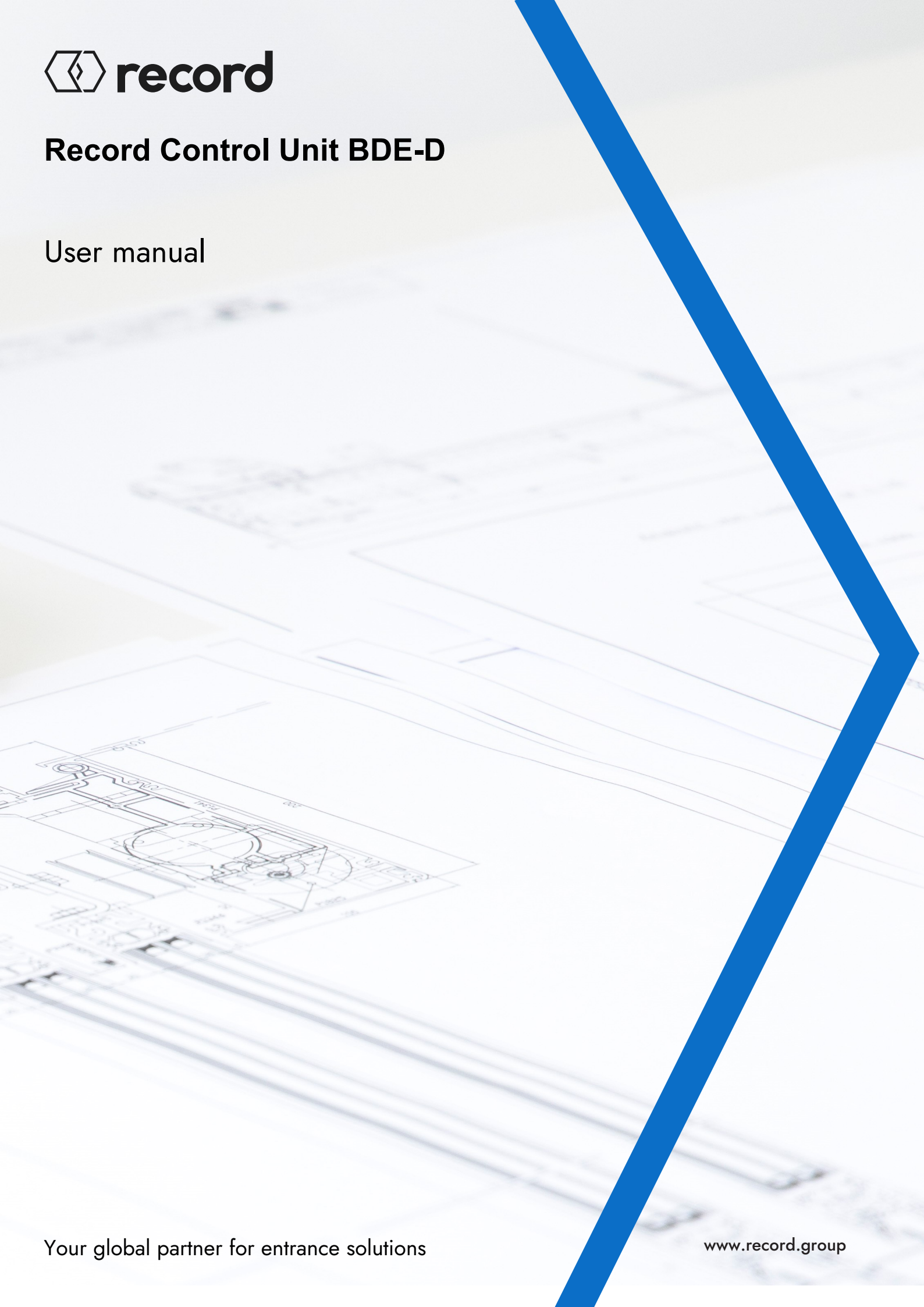
Record Control Unit BDE-D

User manual



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Original Instructions

Subject to technical modifications
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Table of contents

List of changes

Change	Location
Complete revision of all sections and content	Entire document
New section structure	Entire document
Revision of all graphics	Entire document

1 Safety

1.1 Presentation of warning signs

DANGER

Warning against an imminent or latent hazardous situation that can lead to electric shock and cause serious injury or death.

DANGER

Warning against an imminent hazardous situation that can lead to severe injury or death.

WARNING

Warning against a latent hazardous situation that can lead to severe injuries or death and cause substantial property damage.

CAUTION

Warning against a potential hazardous situation that can lead to minor personal injury and property damage.

NOTICE

Useful advice and information to make sure of a correct and efficient workflow of the system.

1.2 Electronic equipment reception interference

The equipment can generate and use radio frequency energy. If the equipment is not installed and used properly it can cause interference to radio, television reception or other radio frequency type systems.

If other equipment does not fully comply with immunity requirements, interference may occur. There is no guarantee that interference will not occur in a particular installation.

If the equipment causes interference to radio or television reception, try to correct the interference:

a) Turn the equipment ON and OFF to determine interference.

b) Reorient the receiving antenna.

c) Move the receiver with respect to the equipment.

d) Move the receiver away from the equipment.

e) Connect the receiver into a different outlet so that equipment and receiver are on different branch circuits.

f) Make sure that protective earth () is connected.

If necessary, consult the dealer or an experienced electronics technician for additional suggestions.

1.3 State of technology

NOTICE

Installation, commissioning, inspection, and maintenance must only be done by approved technicians. We recommend you to have a service agreement.

Record the work in the check list and give it to the customer for safe keeping.

This system was developed using state of the art technology and officially recognized technical safety regulations. The system, depending on its options and variants, comply with the requirements of the Machine Guidelines 2006/42/EG as well as EN 16005 and DIN 18650 (D).

Danger can occur if you do not use the system as intended.

1.4 Product liability

To guarantee a reliable and trouble-free operation of the system, only use parts that the manufacturer recommends. The manufacturer declines any liability for damages as a result of unapproved modifications to the system or the use of parts that are not permitted.

Refer to regulations, the responsibility of the owner or caretaker of the equipment are as follows:

- That the equipment operates correctly, so that it gives sufficient protection in regard to safety and health.
- That someone with documented competence in the equipment and in applicable regulations operates and regularly maintains, inspects, and services the equipment.
- That the provided Service log book and Site acceptance test and risk assessment are kept available for maintenance and service records.
- That the inspection covers the emergency opening function (when applicable).
- That the closing force is appropriate for the system size on fire-approved systems (when applicable).

1.5 Spare parts and liability

Reliable and trouble-free operation of the door is only guaranteed when using parts that were recommended by the manufacturer. The manufacturer declines any liability for damages resulting from unauthorized modifications to the door or the use of parts that are not permitted.

2 General information

2.1 Purpose and use of the instructions

These instructions are an integral part of the system and enable efficient and safe handling of the system. In order to ensure proper functioning, the instructions must be accessible at all times and kept in the immediate area of the system.

Although only the male form has been chosen for reasons of better legibility, the information refers to members of both sexes.

The operator must have read and understood the manual before starting any work. The basic requirement for safe working is to follow the safety instructions and the handling instructions. In addition, the local regulations and safety rules apply.

The manual can be handed over in extracts to instructed personnel who are familiar with the operation of the system.

The illustrations are for basic understanding and may differ from the actual presentation. Specific representations are contained in the drawings.

NOTICE

A replacement of the instructions is available from the supplier or on the website.

2.2 Manufacturer agtatec ag

agtatec ag
Allmendstrasse 24
CH – 8320 Fehraltorf
Switzerland
Phone: +41 44 954 91 91

2.3 Target groups

WARNING

Risk of injury if the personnel are not approved.

If unapproved personnel work on the system or are in the danger zone of the system, dangers can occur. Severe injuries and substantial material damages can be the consequence.

a) Only approved personnel must carry out work on the system.

b) Keep unapproved personnel away from danger areas.

This manual is intended for the target groups listed below:

– The person who is responsible for the technical maintenance of this system.

– The person who operates the system every day and has been instructed.

3 Description

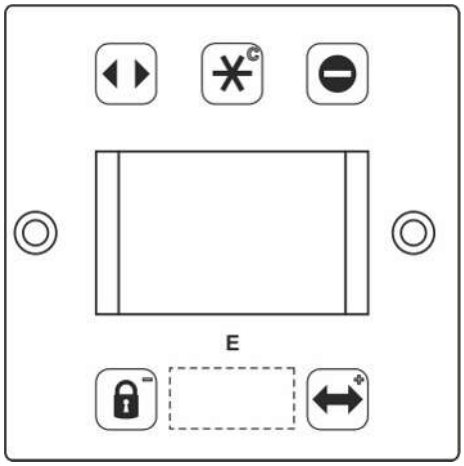
3.1 BDE-D Description

The BDE-D electronic operating unit is a convenient input and output unit for operating and programming control units in our door operators.

Logically arranged buttons allow intuitive operation of the door and navigation through the operator-specific menu structure. The LCD display with backlighting provides details and information on the door status using symbols and plain text.

There is a choice of several languages, which increases user-friendliness on the one hand and facilitates service interventions on the other.

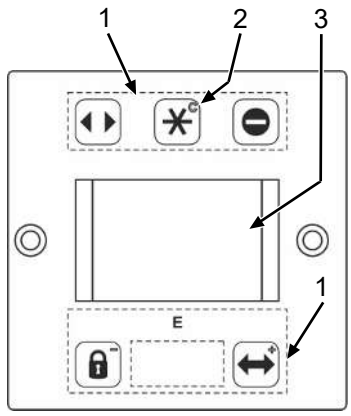
The connection to the control units is made via the CAN bus.



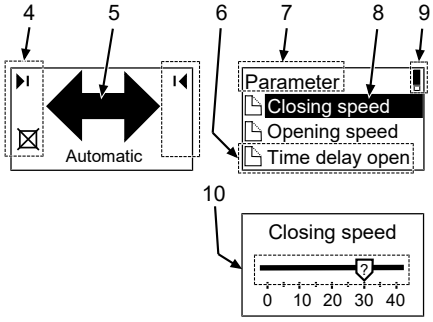
3.2 Identification

1	Keypad with 6 keys	8	Navigation aid in the menu (scrollbar)
2	Navigation information	9	Menu lines (link to submenu)
3	LCD display	10	Slider control
4	Status displays (e.g. child-proof lock, reduced opening width)	11	DIP-switch CAN-termination / selector BDE 1 or 2
5	Operation mode (symbol and text)	12	Terminal board CAN bus
6	Title of main menu	13	Terminal board for external service lock
7	Cursor, active menu line		

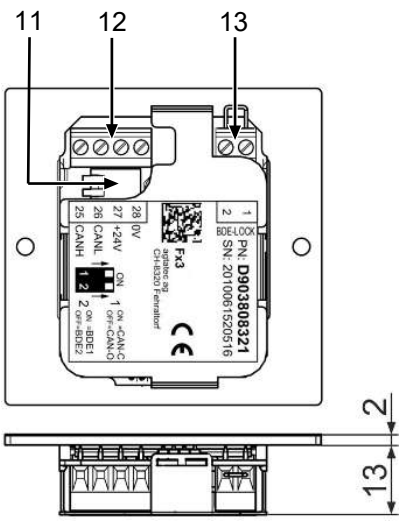
Front view

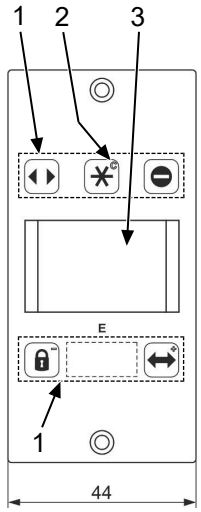
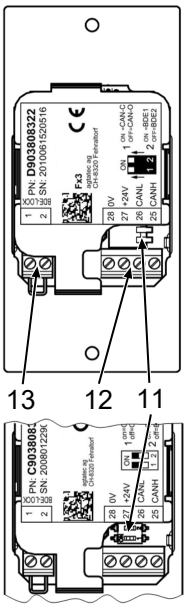
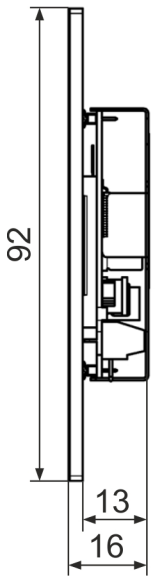


Display



Rear view

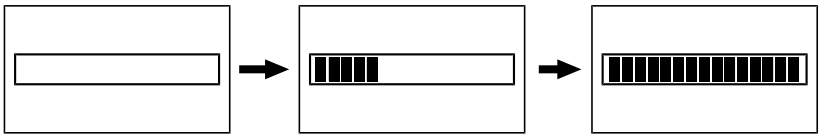
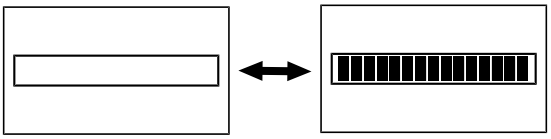


BUILT-IN TYPE Front view	Rear view	Side view
		

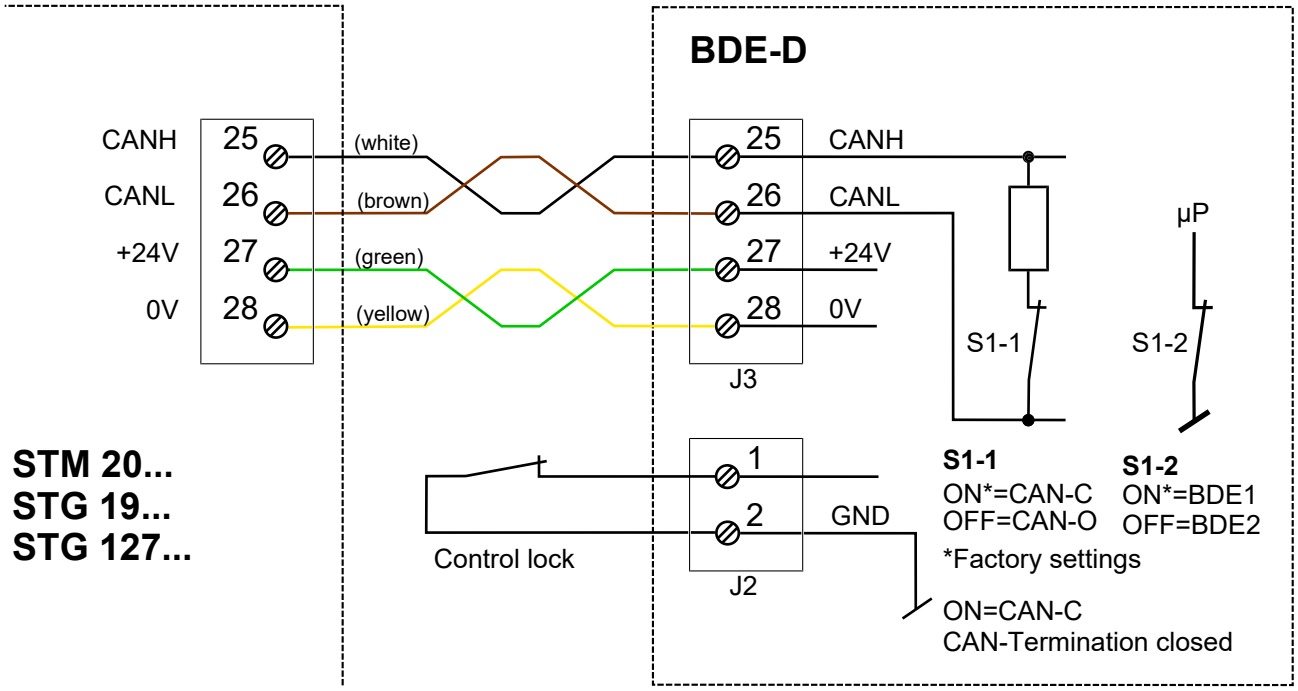
3.3 Connection to control unit

Connection on CAN-bus: [1)]

Plug in the connecting cable to the CAN-port (11) and connect it to the CAN-port on the STG (twisted-pair cable).

Connect to the control unit…

The control unit has been connected (example).
DFA 127 V2.21 **Basic operator**
No connection to the control unit.


Connect to the control unit…



[1] Set the DIP-switches (S1-1, S1-2) before connecting to the CAN-port!

4 Technical Data

Supply voltage:	24 VDC from CAN bus
Connected load:	< 2 W
Dimension of front panel:	60 x 60 mm, adapted for Feller or Jung systems
Dimension built-in type:	92 x 44 mm
Temperature range:	-20… +50°C
Resolution of LCD display:	112 x 64 pixels, with background light

5 Key Functions

Key	Function
	Automatic operation
	Hold-open operation
	One-way operation
	Locked
	STA: reduced opening width DFA: manual operation
	– Display for additional information – Access to parameter menu – Start procedure for service lock – Restart STG: press > 5 s – Restart Control Unit hardware: press > 12 s
E 	Select the menu item and confirm entry
	– Move down to select menu item – Slider control to the right to increase the value
	– Move up to select menu item – Slider control to the left to decrease the value
	Leave menu item, exit (without saving)

NOTICE

Automatic return to the standard screen, 3 minutes after last input.

6 Important Notes

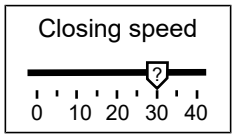
CAUTION

Inappropriate modification of the settings could impair the correct and safe function of the installation!

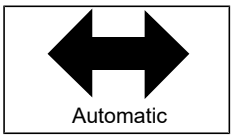
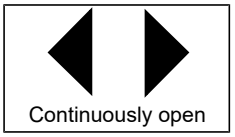
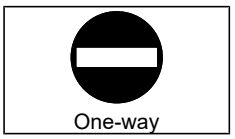
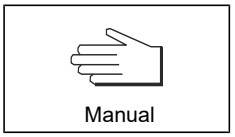
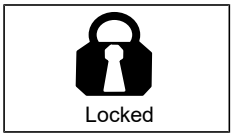
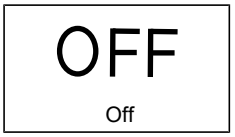
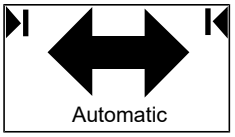
Access to parameters		
End customer or operator of the installation Key sequence:		
E		E

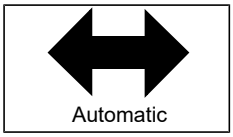
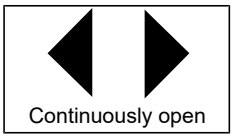
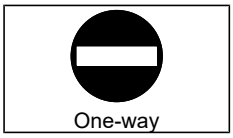
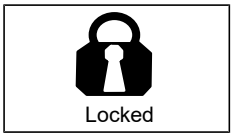
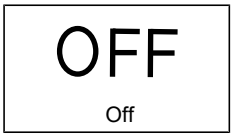
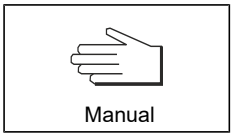
NOTICE

Parameters or data that are not present in the control unit, or are only present as unknown values, will be indicated by a question mark and can be displayed in different ways depending on their type.

WITH SLIDER CONTROL


7 Select the mode of operation

Key	Operating mode STA Sliding Door	Displayed Symbol
	Automatic	
	Continuously open	
	One-way	
 Or press 2 s	Manual	
	Locked	 Or 
	Reduced opening width	

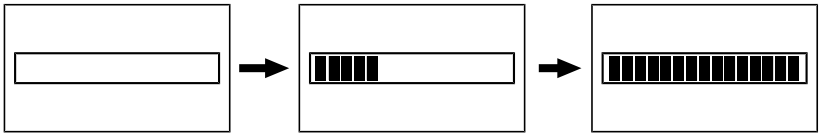
Key	Operating mode DFA Swing Door	Displayed Symbol
	Automatic	
	Continuously open	
	One-way	
	Locked	 Or 
	Manual operation	

8 Carrying out functions

Restarting the Control Unit		
E	Press > 5 s	
C	No	No Reset controller? Yes
E	Yes	

Restart Hardware		
E	Press > 12 s	

Connect to the control unit…



The control unit has been connected (example)

DFA 127 V2.21
Basic operator

NOTICE

Only in Operation mode “Locked”.

Opening with SSK	
	Select Operation mode **“Locked”**.
	Press key **“Locked”** again to release SSK.

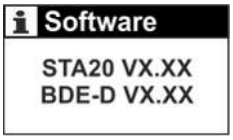
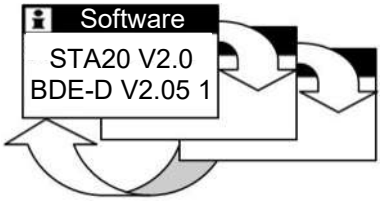
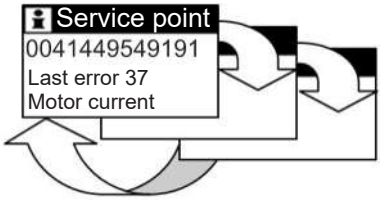
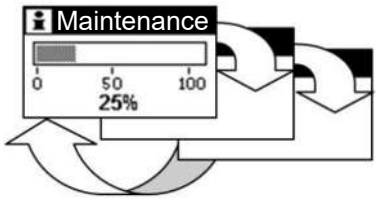
NOTICE

Check directly the effect when parameters and configurations have been edited.

Opening while editing	
	Press key **“Continuously open”** to release an opening.

9 Reading out Information

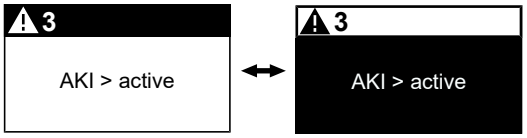
Information about the door system, such as software version, door type, or servicing status, can be read on the display.

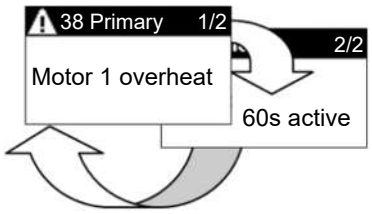
System Information	
E	Press approx. 2 s 
E	Browsing through information screens 
E	
E	

NOTICE

Return to the standard screen by pressing the key or automatically after 20 s.

10 Fault indications

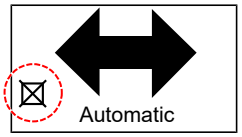
Fault indications	
	Any current operational faults in the drive system, will be displayed in the standard screen.
	The display changes between normal / inverse after 2 s.  If several faults are active, they will be numbered: e.g. Fault **1/2**
E	Temporary return to the standard screen for 4 s.

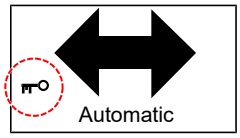
Primary / Secondary Installations	
	You can switch between the current fault of the Primary and Secondary drives.
E	Browsing the fault screens 
E	Temporary return to the standard screen for 4 s, after browsing the fault screens.

11 Lock control panel

NOTICE

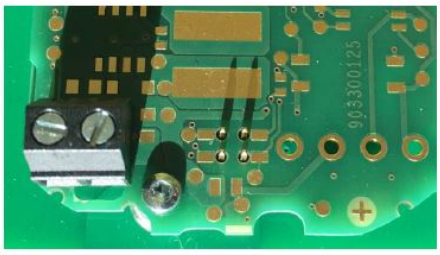
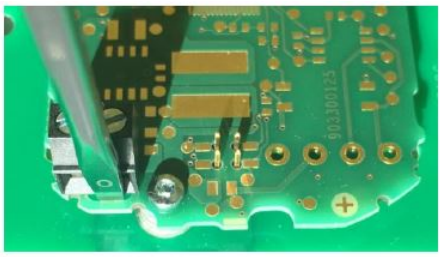
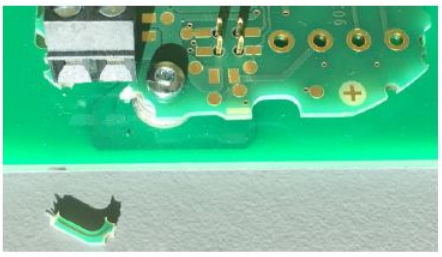
Undesirable manipulation on the control unit by unauthorized persons, can be hindered in a simple manner.

Control lock via keypad			Displayed on LCD
E   	Press the key sequence as shown. To disable, press the key sequence again.	No settings can be made on the control unit.	 Displayed symbol

Electronic control lock	Displayed on LCD
To activate the electronic control lock, open up the connection between J2 / 1-2 (refer to the connection diagram).	 Displayed symbol

Connecting control lock

If a control lock is connected, the connection on the printed circuit board (PCB) must be broken out!

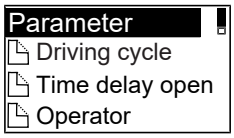
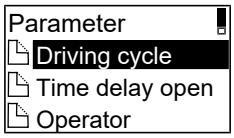
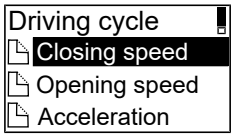
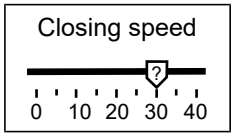




12 Parameter settings with slider controls

NOTICE

With the type "low energy", the parameters can only be changed by qualified personnel.

The following example of the closing speed explains how to set the parameters of the door.

Closing speed example				
Step	**Key**	**Operation**	**Function**	**Displayed on LCD**
1	E ✳ E	Press the keys in the order shown.	Access to the parameter at end customer level.	
2	E	Press the key 1x	In the **Driving cycle** menu, select the **Closing speed** menu item and confirm.	
3	↔+ E	Set the closing speed with the keys shown.	Select the desired speed in the **Closing speed** menu item.	
	↔+	Hold down the key to move continuously.	Increase/decrease the speed **0** = minimum **40** = maximum	
	🔒−	Decreasing the speed.		
4	E	Press key 1x	Confirm the entry and save it in the STG.	
5	✳C	Press key 1x	Exit the menu item.	

13 Taking out of service and disposal

13.1 Decommissioning

NOTICE

After each temporary shutdown a new commissioning must be carried out.

When the system is taken out of service:

a) Disconnect the system from the mains supply.

b) Unplug from any existing battery.

13.2 Dismantling and disposal

NOTICE

All parts must be separated, sorted by the type of material, and disposed of. Refer to local regulations and guidelines.

NOTICE

The systems can be completely disassembled in the reverse order.

The installation mainly consists of the following materials:

Metal components (aluminium, steel, and iron)

- Linking profiles, system leaf profiles, side profiles, various profiles, and reinforcement profiles.
- Gearbox, drive panel.
- Gear components and springs.
- Stainless steel casing, floor panel, and box recess for the floor installation.
- Various small parts like fittings, covers, optional spacers, and linking parts.

Glass

- Leaves and side panels.

Various electronic and electromechanical components

- Sensors.
- Control components and operator components.
- Batteries and rechargeable batteries.

Various plastics

- Rollers.
- Sealing profiles.
- Cable clips, coupling and linking parts.
- Casing of electromechanical components and sensors.

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