

record C 127 X

User manual

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Translation of the original manual

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1 Safety

1 Safety

1.1 Presentation of warning signs

Various symbols are used in this guide for easier understanding:



NOTICE

Useful advice and information to ensure correct and efficient workflow of the system.



IMPORTANT

Specific details which are essential for trouble-free operation of the system.



IMPORTANT

Important details which must be read for proper function of the system.



CAUTION

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



WARNING

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



DANGER

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



DANGER

Against an imminent or latent hazardous situation that could lead to electric shock and cause serious injury or death.

1.2 Intended purpose of use

The system is designed exclusively for use as a pedestrian passage. The installation must only occur in dry areas. If there are deviations then proper waterproofing and water drains will be required on site.

Any other application or use beyond this purpose is not considered to be an intended purpose. The manufacturer bears no liability for any resulting damage; the operator alone shall bear the associated risk.

The intended purpose also includes observation of the operating conditions specified by the manufacturer, in addition to regular care, maintenance and repair.

Interventions in or alterations to the installation performed by non-authorized maintenance technicians exclude the manufacturer's liability for consequential damages.



NOTICE

The operation of an automatic door in combination with a wicket door may only take place if the latter is in a secured position.

1.3 General hazards

The following section lists hazards that can be caused by the system even when used as intended. To reduce the risk of malfunction, damage to property or injury to persons and to avoid dangerous situations, the safety instructions listed here must be observed.

The specific safety instructions in the other sections of this manual must also be observed.



IMPORTANT

The country-specific regulations must be observed and complied with!



WARNING

Serious injuries and major property damage.

Incorrect mounting can lead to serious injuries and/or cause major damage to property.

a) Observe and comply with all important instructions regarding safe assembly.



IMPORTANT

To avoid malfunctions, moving objects such as flags or parts of plants must not be allowed to enter the detection range of the sensors.



NOTICE

The installation must be inspected during the function and safety check for imbalance and signs of wear or damage to cables, springs and fastening parts. The equipment must NOT be used if repair or adjustment work needs to be carried out.



NOTICE

Checking, repairs, service, maintenance and cleaning may only be carried out when the system is at a standstill and switched off. Before work can be started, persons must be barred from the system and the danger area.



CAUTION

Risk of malfunctions, material damage or injury due to improper settings!

- a) Improper settings can lead to malfunctions, material damage or personal injury.
- ⇒ Do not disconnect the system from the power supply overnight.
- \Rightarrow Settings should only be made by personnel qualified to do so.
- ⇒ Do not disassemble, put out of operation or manipulate safety devices.
- \Rightarrow Have faults rectified by specialist personnel or by personnel qualified to do so.
- ⇒ Have service and maintenance carried out according to locally applicable regulations or according to a maintenance contract.



CAUTION

Risk of malfunctions, material damage or injuries due to insufficient or missing cleaning or care!

- a) Insufficient or inattentive cleaning or care of the system can lead to malfunctions, damage to property or injury to persons.
- \Rightarrow Check the sensors regularly for dirt and clean them if necessary.
- ⇒ Regularly remove dirt accumulations in the floor rail or under the floor mat.
- \Rightarrow Keep the system free from snow and ice.
- ⇒ Do not use aggressive or caustic cleaning agents.
- ⇒ Use road salt or loose chippings only conditionally.
- \Rightarrow Lay the floor mat without folds and flush with the floor.
- ⇒ Equipment required for cleaning purposes such as ladders or similar must not be leaned on or attached to the system.



CAUTION

Risk of material damage or injury due to unforeseen opening, closing or turning of the door!

- a) The door can open, close or turn unexpectedly. This may result in damage to property or injury to persons.
- \Rightarrow No persons may be present in the opening area of the system.
- ⇒ Ensure that moving objects such as flags or parts of plants do not enter the detection range of the sensors.
- \Rightarrow Do not make any settings on the control unit when the system is in use.
- ⇒ Have faults rectified immediately by specialist or personnel qualified to do so.
- ⇒ Remove objects from the opening area.
- ⇒ Do not disassemble, put out of operation or manipulate safety devices.
- \Rightarrow Do not rush through a closing system.



CAUTION

Risk of bruising and severing of limbs!

- a) If the system moves, careless behaviour can lead to serious injuries to limbs or severance of limbs.
- $\Rightarrow\,$ Do not reach in when parts of the system are moving.
- $\Rightarrow\,$ Keep a distance when parts of the system move.
- \Rightarrow Do not bump into or touch the system when it is moving.
- ⇒ Do not open or remove protective covers during operation.
- ⇒ Do not permanently remove covers from the system.
- ⇒ Only carry out inspection, service, maintenance and cleaning when the system is stationary and switched off.



CAUTION

Danger of material damage or injury due to non-functioning safety devices!

- a) If safety devices are not functioning, manipulated or put out of operation, there is a risk of damage to property or injuries that can lead to death.
- ⇒ Never disable or manipulate safety devices.
- ⇒ Have inspection, service and maintenance of the safety devices carried out according to local regulations or according to a maintenance contract.



CAUTION

Danger of malfunctions, damage to property or risk of injury if used by unauthorised persons!

- a) If unauthorised persons use the system, there is a risk of malfunction, damage to property or injury to persons.
- ⇒ Children under 8 years of age may only use the system under supervision.
- ⇒ Children must not play, clean or maintain the system.
- ⇒ Persons with limited physical, sensory or mental abilities as well as persons with insufficient knowledge or experience may only use the system under supervision or must have received and understood instructions to do so.

DANGER

Danger to life due to electric current!

- a) In case of contact with live parts, there is an immediate danger to life due to electric shock. Damage to or removal of the insulation or individual components can be life-threatening.
- ⇒ Before starting work (cleaning, maintenance, replacement) on active parts of electrical systems and equipment, ensure that all poles are voltage free and that this is maintained for the duration of the work.
- ⇒ Keep moisture away from live parts. This can lead to a short circuit.
- \Rightarrow Never bridge fuses or put them out of operation.
- \Rightarrow Do not connect the power supply until all work has been completed.
- \Rightarrow Have work on the electrical system performed by qualified personnel only.



DANGER

- Danger to life due to non-functioning safety devices of the fire protection system!
- a) If safety devices of the fire protection system do not function properly, there is a risk of serious or fatal injuries.
- ⇒ Never disconnect the fire protection system from the power supply overnight.
- ⇒ Do not disassemble, put out of operation or manipulate safety devices.
- ⇒ Do not remove safety instructions on the system.
- ⇒ Never block, hold open or otherwise prevent fire doors from closing.
- ⇒ Have inspection, service and maintenance of the fire protection system carried out in accordance with locally applicable regulations or according to a maintenance contract.
- ⇒ Have the fire protection system checked and maintained according to the state of the art.

1.4 State of technology

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

Nevertheless, danger may arise if not used as intended.



IMPORTANT

Installation, commissioning, inspection, maintenance and repair work may only be conducted by qualified, trained and authorized technicians.

After commissioning or repair work, fill in the check list and give it to the customer for safe keeping.

We recommend obtaining a service agreement.

1.5 Personal protective equipment

Personal protective equipment is used to protect persons from adverse effects on health. Personnel must wear personal protective equipment during the various work activities on and with the system. Personal protective equipment is explained below:



In hygiene-protected areas, special or additional requirements of personal protective equipment may be required. These requirements must be considered when choosing personal protective equipment. If there is any uncertainty regarding the choice of personal protective equipment, the safety officer must be consulted at the place of work.

1.6 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.



IMPORTANT

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

2.2 Copyright

The copyright for these instructions remains with:

agtatec ag

The instructions may not be reproduced, distributed, or used for the purpose of competition without the written consent of agtatec ag.

Infringements shall result in the obligation to pay damages.

2.3 Product identification

The nameplate located on the door provides accurate identification of the product.

2.4 Manufacturer agtatec ag

agtatec ag

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

2.5 Target groups



CAUTION

Risk of injury if personnel are insufficiently qualified!

If unqualified personnel work on the system or are in the danger zone of the system, dangers may arise which can cause serious injuries and considerable damage to property.

- a) All work must be carried out by qualified personnel only.
- b) Keep unqualified personnel away from danger areas.

This operating manual is intended for the target groups listed below:

- Operating entity of the system: the person who is responsible for the technical maintenance of this system
- Operator of the system: the person who operates the system every day and has been suitably instructed

2.6 Definition of terms

Term:	Explanation:
System	The term is also used in these instructions as a synonym for the product. Door operators, revolving doors, sliding doors, etc. are referred to as a system.
	If information in these instructions refers to a specific type, this is shown accordingly in the text.
User	Users are all persons who use the system.
System operator	The respective owner is referred to as the system operator, regardless of whether they operate the system as the owner or pass it on to third parties.
Authorized representative	The authorized representative takes over certain parts of the manufacturer's obliga- tions with regard to fulfilling the requirements of the Machinery Directive. In particu- lar, the authorized representative may also place the system on the market and/or sign EC declarations of incorporation.
Qualified personnel	Qualified personnel are authorized and appropriately trained to perform the follow- ing work:
	 Disassembly, Assembly, Commissioning, Operation, Audit, Maintenance, Troubleshooting, Decommissioning
	The qualified personnel have several years of professional experience in the tech- nical field, e.g. as mechanics or machine fitters.
	The qualified personnel are aware of the residual risks arising from the installation site and, due to their professional training, knowledge and experience, are able to carry out the work assigned to them and to independently identify and avoid possible danger points.
Manufacturer	The manufacturer is whoever designs and/or builds machinery or incomplete ma- chinery under the scope of the Machinery Directive.
Life phases	All phases of the system's condition and use are referred to as life phases. This applies from the time the system leaves the factory until it is disposed of.
Personnel	All persons who carry out activities on and with the system are referred to as per- sonnel. Personnel can be, for example, the operator, the cleaning staff, or the se- curity staff. The personnel meet the personnel qualifications required by the manu- facturer.
Service technician	Experts and specialists or representative authorized by the manufacturer to perform commissioning, maintenance and servicing.

2.7 Abbreviations

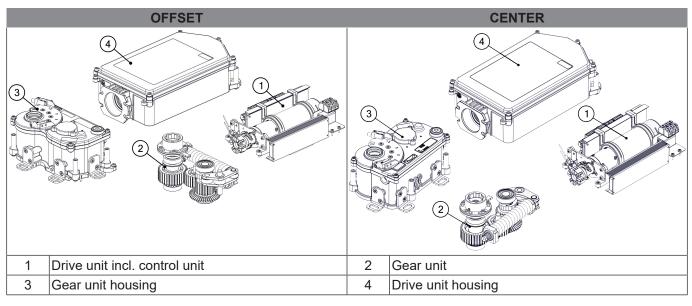
Abbreviation	Description
ABS	Absolute pulse generator
AKA	Actuating-contact "outside"
AKG	Actuating-contact "common"
AKI	Actuating-contact "inside"
ASK	Terminals inside header
ATE	Drive unit
BDE-D	Electronic control unit
BDI	Control unit (rocker switch)
BDI-M	Circuit board for mechanical control unit
BKL	Control unit LED
BODYG	Sensor "Bodyguard"
CAN-H	Serial data interface
CAN-L	Serial data interface

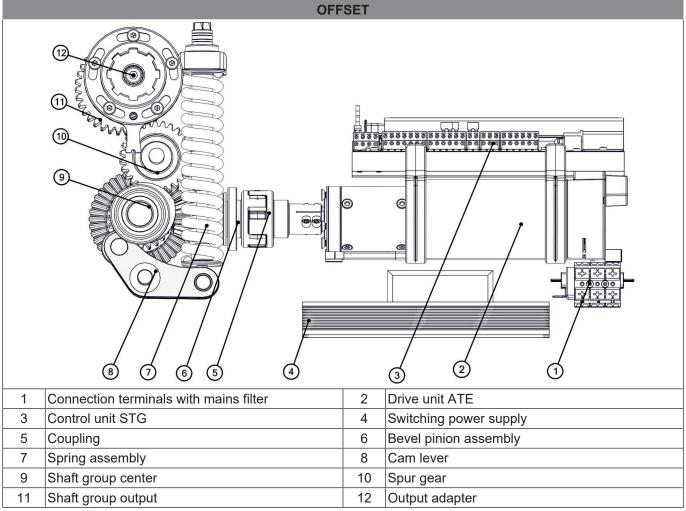
General information 2

Abbreviation	Description	
CPU	Central processing unit	
DFA	Automatic swing door operator	
EEPROM	Program memory	
ES	Electrical circuit diagram	
FV	Manufacturing regulation	
GTR	Gearing	
HS	Main switch 2-pole	
IKG	Encoder	
КА	Cable exit	
LED	Light Emitting Diode	
LD	Light Emitting Diode	
LS	Cable plan	
MF	Multifunctional switch	
MOT	Motor	
MP	Principal assembly diagram	
NA	Emergency stop	
NET	Power supply unit	
NS	Main power switch	
NSA	Mains failure	
RAD	Radar, Motion sensor	
RAILB	Light barrier "Railbeam"	
SI	Fuse	
SIO	Safety open	
SIS	Safety close	
SSK	Key operated contact	
STG	Control unit	
STP	Control pc board	
SURV	Time switch "Locked"	
TOE	Door locking	
TOW	Door opening width	
TOZ	Door open time delay	
μP	Mikroprocessor	
VAK	Locking contact	
VL	Wiring list	
VMA	Instructions for wiring and assembly	
VRR	Locking	

3 Description

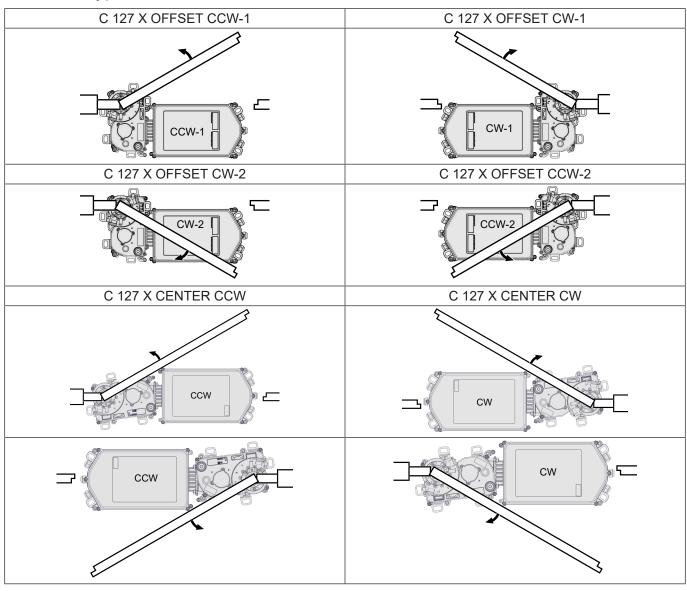
3.1 Construction



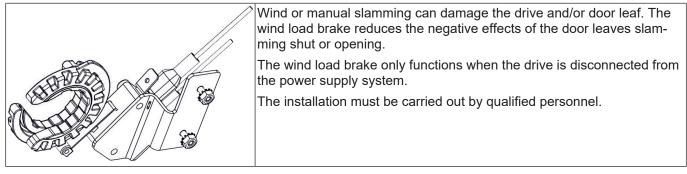


	CENTER				
1	Connection terminals with mains filter	2	Drive unit ATE		
3	Control unit STG	4	Switching power supply		
5	Coupling	6	Bevel pinion assembly		
7	Spring assembly	8	Cam lever		
9	Shaft group center	10	Spur gear		
11	Shaft group output	12	Output adapter		

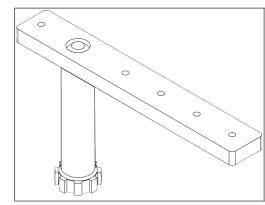
3.2 Types



3.3 Wind load brake



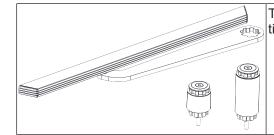
3.4 Lever arm



The lever arm is custom made.

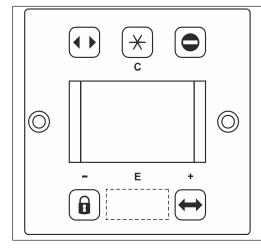
- With direct connection and power transmission between output shaft and door leaf.
- The lever arm can be installed in the door leaf or base profile of the door leaf.
- A suitable counter bearing for the door leaf must be provided.

3.5 Sliding arm (optional)



The sliding arm is suitable for support in pulling and pushing applications.
The Sliding arm can be installed in the door leaf or base profile of the door leaf.
An adjustable mechanical stop is built into the sliding arm.
The optional sliding arm adapters (in different heights) bridge the distance between the drive and the sliding arm.

3.6 BDE-D



The BDE-D external control unit controls the door operator. It can be used to select 5 operating modes. The LCD display with backlight shows the door status by means of symbols and text. Further information can be found in the operating instructions of the BDE-D. The installation must be carried out by qualified personnel.

3.7 Components

The swing door operator forms part of an electromechanical swing door system and comprises the following main components:

Control unit:	Intelligent, self-learning microprocessor-controlled control system	
Drive unit:	Low maintenance DC geared motor with electronic path measurement and in- tegral thermostatic protective switch, gear box with adjustable spring tension	
Power supply:	Compact 230 V power supply with integral input filter	
Control unit:	With simple mechanical operating unit and/or optionally with comfortable, pro grammable electronic operating unit BDE-D	
Lever System:	Power transmission to the door leaf with standard lever pushing or sliding lever pulling / pushing	
Locking (optional):	Possibility on site to connect an electrical door opener (24 VDC)	
Sensors:	Aesthetic release and self-monitoring safety devices with adjustable sensitivitien ensure optimal, smooth and safe operation of the door system	

3.8 Functional description

The drive is designed so that it functions like a normal door closer when currentless. It can therefore be easily opened by hand and is closed by the energy stored in the spring, damped by the motor which acts as a generator.

If the drive is connected to the mains, the opening and closing movements are motor-supported. The following functions are solely intended for the safety of the user:

Obstacle detection:

If the door hits an obstruction while opening, it stops immediately and records the position of the collision. The drive attempts to briefly reach the open position during the hold-open time. Once the holdopen time elapses, the door closes and, during the next opening, the obstruction position is passed over very carefully in slow mode. This prevents a second hard impact.

Reversing:

If the door hits an obstruction while closing, re-opening is immediately initiated.

3.9 Functional description Inverse

The drive with inverse function is constructed in such a way that the door can be used without electricity. The drive opens with the energy stored in the spring, damped by the motor acting as a generator. Escape route door openers of the type 331 and 332 can be used to keep the door shut without electrical power. (Escape and rescue route doors have to open without electrical power.)

If the door drive runs on AC power, opening and closing motions are motor assisted. Thereby, the door can be halted both at opened and at closed position (electromagnetic brake).

Nevertheless, that does not make the door resistant against brake-ins. The inverse door drive does allow neither manual operation nor touch control. The door can be opened by hand and is assisted by spring tension. But the door has to be pushed against this spring tension for closing. An electrical lock is necessary to keep the door shut, but it will release the door in case of an alarm or in case of a power failure.

In standard operation mode "automatic mode" the door opens due to an actuating device (e.g. motion detector) triggered by approaching persons or objects. After the door open time has passed, the door closes unless a new opening impulse ensues.

In operation mode "locked" the door can only be opened by triggering an optional key pivot contact (SSK). After the SSK door open time has passed, the door closes unless a new opening impulse ensues.

The following functions are provided exclusively for the safety of the user:

Collision detection: If the door strikes an obstacle while **opening,** it stops immediately and stores the position of the impact. During the time delay, the drive briefly tries to reach the open position. Once the time delay has expired, the door closes, and, when next opened, the door passes the impact position very carefully in slow mode. This prevents a further violent impact.

Reversing: If the door strikes an obstacle when **closing**, it is reopened immediately. The obstacle's position is saved to the door drive, and the position is approached slowly during the next closure.

3.10 Low energy drive

In the parameterisation of the Low Energy door type "Low Energy" the drive acts as an automatic low energy operator. The opening and closing speeds are limited and the operator is more sensitive in case of a collision. The closing action takes place using spring force and reduced kinetic energy. In the currentless state, the door can be opened manually and closes automatically with the energy

In the currentless state, the door can be opened manually and closes automatically with the energy stored in the spring.



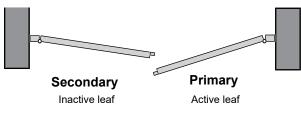
CAUTION

Risk of injury from bumping against the door leaf

The low-energy drive is classified as non-hazardous. Nevertheless, collisions with certain groups of people can cause risk of injury.

- a) Clarify whether the residual risk for elderly and frail persons or persons with physical limitations is low.
- b) Observe the opening or closing speed of the door.
- c) Do not rush between a closing door leaves.

3.11 Primary / secondary application



With the primary / secondary application, the opening and closing sequence of two-leaf doors is controlled electronically.

The two operators communicate with each other via an interface so that the safety functions such as reversing and obstacle detection remain in place.



NOTICE

The functions of the primary / secondary operator correspond to those of a standard operator.

3.11.1 Functions

Obstacle detection: If the door hits an obstacle when opening, it stops immediately and saves the position of the collision. During the hold open time, the operator briefly attempts to reach the open position. Once the hold open time has elapsed, the door closes and the obstacle position is passed over more slowly the next time it opens. This prevents another hard impact.

Reversing: If the door hits an obstacle when closing, a reopening is initiated immediately (reversing). The obstacle position is saved in the door operator and this position is approached gently the next time the door is closed.

Operation: Three operation modes can be set using the built-in toggle switch BDI.

Primary / secondary: A primary / secondary system can only be operated via the toggle switch BDI of the primary operator. This switch position also affects the secondary operator.

4 Technical data

Dimensions OFFSET:	561 x 258 x 152 mm (LxWxD)
Dimensions CENTER:	641 x 231 x 152 mm (LxWxD)
Operating voltage:	100 - 240 VAC, 50/60 Hz
Power consumption:	Standby 25 W, Nominal power 67 W
Torque maximum:	80 Nm
Weight door leaf maximum:	600 kg
Opening angle:	Adjustable from 70° to 120°
Hold open time:	Adjustable from 0 to 60 seconds (40 steps)
Opening speed:	Adjustable from 3 to 20 seconds (40 steps)
Closing speed:	Adjustable from 5 to 20 seconds (40 steps)
Noise emission:	< 45 dB
Protection class:	IP 69
Temperature range:	-15° to +50° C
Humidity range:	up to 85% relative humidity, non-condensing

5 Operation

5 Operation

See also:

- B Configuration C 127 X [▶ 23]
- B Configuration FEM V1_10 with STG127 V2_40_E [▶ 24]

5.1 Control panel BDE-D

5.1.1 Operation modes and button functions

The buttons on the control panel BDE-D are used to set the door system operation modes in the main menu. The parameters of the door system are set in the sub menu.

The button functions are divided into main menu and sub menu.

Main menu

Button	Name	Operation	Function	Display on LCD
$ \Longleftrightarrow $	Automatic button	Press button 1 x	Automatic operation via sensors	Automatic
	Continuously open button	Press button 1 x	For sliding door operator and swing door operator: continuously open, sensors disabled	Continuously open
		Press button 2 x or hold it down for 2 seconds	For sliding door operator: manual operation	Manual
	One-way button	Press button 1 x	Passage only possible from one direction	One-way
	Locking button	Press button 1 x	Door closed, sensors dis- abled	Locked
		Press button again	The door opens again, closes, and locks again. Can be opened with a key (optional).	Locked
*	Star button	Press button 1 x	For sliding door operator: Reduced open width	Automatic
		Press button 1 x	For swing door operator: manual operation	Manual
E	Menu button	Restart control device: press button for 5 seconds Restart hardware BDE-D: press button for 12 seconds	Access to parameter menu Enable control lock Restart control device Restart hardware BDE-D	

Sub menu



NOTICE

The main menu is returned to automatically 3 minutes after the last entry.

Button	Name	Operation	Function	Display on LCD
E	Enter button	Press button 1 x to go to the next sub menu.	Select menu item, confirm entry	Opening speed
+	Plus button	Press button 1 x to go down.	Parameter	
		Press button 1 x to increase the value.	Move the slide control to the right to increase the value	Closing speed
	Minus button	Press button 1 x to go up.	Navigate upwards in the menu	Parameter Driving cycle Time delay open Operator
		Press button 1 x to reduce the value.	Move the slide control to the left to reduce the value	Closing speed
c	Clear button	Press button 1 x to go to the previous menu.	Leave the menu item without saving.	Parameter Driving cycle Time delay open Operator

5.1.2 Perform reset

Reset controller

Step	Button	Operation	Function	Display on LCD
1.	E	Press button for 5 seconds	Perform controller reset	No Reset controller? Yes
2.	c	Press button 1 x	Cancel reset	
	E	Press button 1 x	Perform reset	

5 Operation

Reset control panel

Step	Button	Operation	Function	Display on LCD
1.	E	Press button for 12 seconds	Perform control panel reset	
2.				
3.			The connection has been established	DFA 127 V2.21 Basic operator

5.1.3 Display system information

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



NOTICE

The main view is returned to by scrolling or automatically after 20 seconds.

Step	Button	Operation	Function	
1.	E	Press button for approx. 2 seconds	Software information is displayed	Software STA20 V2.0 BDE-D V2.05 1
2.	E	Press button 1 x	Scroll through the in- formation and/or re- turn to main view	Software STA20 V2.0 BDE-D V2.05 1
3.	E	Press button 1 x	Scroll through the in- formation and/or re- turn to main view	Servicing ↓ ↓ 0 50 100

5.2 Parameter overview

Factory settings: Basic operator (Full Power)



NOTICE

Parameterization of the swing door operator can only be carried out with the optional electronic BDE-D, the App i-record or the service and flash programmer FPC 902 or the test box.



NOTICE

Please always leave the parameter list in the drive even when replacing the STG!

	v stem C 127 X SU pa Value will reset after default parar					overview				STG 127 □ Master				
= =	Programming of slave 1 or slave 2 Parameter modification via MFT (2 (kev)	on	ST	G	(technical level)								
٩R	AMETER				P	arameter value (fa	cto	ory settings printed			to door type			
	Description VING CYCLE	D	S	S M	1		2	3	3	2	1	5	6	6
	Closing speed	D			1		(Sr	peedo)						
•	Opening speed	D			8			,	DIN	i : > 1.5 s < 4 s				
	Acceleration	D		N						erent acceleration				
	Latch check Force when closing	D D	-	N	0					rt latch check by I : 0	closing			
	E DELAY OPEN	D		IV			(0)		2111					
	Time delay open	D			2			peedo)						
-	Time delay SSK VE	D			4		(Sj	peedo)						
	Opening angle	D	S	5	3	5	(Sı	peedo) Ľ		l : min. 95°				
•	Collision close		S	S IV				peedo)						
	Collision open	D		S M				peedo)	_					
· .	Brake Types of arms	_		6 N 6 N		Without Standard arm		Closed posit. Sliding pulling		Open posit. Sliding pushing	Open/Clos. pos. Inheader	_		
	Inverse			N	_	Disabled		Enabled			Inneader			
•	Spring type			S N		Unknown		EN 4		EN 5	EN 6			
	Limit open Momentum	D		S M		Disabled		Enabled						
		D	5	8 M		Disabled		Enabled						
	Measure A				0		(Sp	peedo)						
	Measure G			_	0		(Sf	peedo)	_			_		
	Fire alarm	+	┝	M		Disabled Single control		Enabled Master control		Slave control	Master Interlock		Slave Interlock	
Þ	Control		S	5 M										
•	Interlock	Τ	Γ	N		Disabled		All operation		Only one-way				
		+	╀	+	+	Basic operator		modes USA		/locked US	EU		UK	UK
•	Door type			M						Low Energy	Low Energy			Low Energy
-	Door type			IV.	Γ	Airport		Default 1		Nordics High	Nordics Low		C 127 X ^[1]	
S :	2-LEAVES					Brussels								
►	Function AKA	D		Ν		Master+slave		Master only						
	Overlap	D		_	5					No overlap				
	Open sequence Close sequence	D		N N	5	5				Simultaneous op Simultaneous clo				
AN	NUAL CONTROL	0		10		•	101			ennananoodo ele				
	During closing	D		M		Disabled		Enabled						
	When locked When one-way	D D		N		Disabled Disabled		Enabled Enabled						
•	When automatic	D		N		Disabled		Enabled						
•	Collision	D		Ν		Disabled		Enabled		Quantation	Final han a		Olauda	Olaudas
		_				Disabled		Constant		Cumulative	Final bang		Slowly, cumulative	Slowly, final bang
	Support during closing	D		Μ		Final bang		Slow, final bang					Cumulative	iniai bang
	A	_		_		stronger		stronger						
	Active sensors Closing speed	D D		M	2	Disabled 0	(Si	SIS disabled		SIS enabled	SIS enabled AUTO		SIS without	
	Opening assist	D		N				peedo)						
													$2 \operatorname{Dec} (\operatorname{Lecl}(A))$	2 Dee/Leek
	NTROL PANEL									3 Pos.(OFF-A)	3 Pos. (OFF-M)		3 Pos.(Lock-A) Automatic:	3 Pos(Lock
						3 Pos. (AUTO) Manual:		4 Positions Automatic:		Automatic:	Manual:			Manual:
						Manual; Automatic;		Automatic; Manual;	ľ	Automatic; OFF;	Manual; OFF;		Locked;	Manual; Locked;
ON	NTROL PANEL					Manual;		Automatic; Manual; Cont. open;	ľ					
ON		D	S	6 M	-	Manual; Automatic; Cont. open		Automatic; Manual;	ľ	OFF;	OFF;		Locked;	Locked;
ON	NTROL PANEL	D	S	6 M		Manual; Automatic; Cont. open 4 Positions Automatic;		Automatic; Manual; Cont. open;	ľ	OFF;	OFF;		Locked;	Locked;
ON	NTROL PANEL	D	S	6 M		Manual; Automatic; Cont. open 4 Positions Automatic; One-way;		Automatic; Manual; Cont. open;	ľ	OFF;	OFF;		Locked;	Locked;
	NTROL PANEL BDE-M (mech. panel)	D	S	6 №		Manual; Automatic; Cont. open 4 Positions Automatic;		Automatic; Manual; Cont. open;	ľ	OFF;	OFF;		Locked;	Locked;
	NTROL PANEL	D	s	3 N		Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked		Automatic; Manual; Cont. open; Locked		OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open
	BDE-M (mech. panel)	D	S			Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch		Automatic; Manual; Cont. open; Locked Français		OFF; Cont. open English	OFF; Cont. open		Locked; Cont. open Español	Locked; Cont. open
	BDE-M (mech. panel)		S	N		Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe		Automatic; Manual; Cont. open; Locked Français Slovenscina		OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open
	BDE-M (mech. panel) BDE-D Language	D	s	N		Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal		Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode		OFF; Cont. open English	OFF; Cont. open		Locked; Cont. open Español	Locked; Cont. open
	BDE-M (mech. panel)		s	N N N		Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0		Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo)		OFF; Cont. open English	OFF; Cont. open		Locked; Cont. open Español	Locked; Cont. open
	BDE-M (mech. panel) BDE-D Language Keyboard Contrast BDE 1 Gontrast BDE 2 Brightness BDE 1		S		2	Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0	(Sµ (Sµ	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo)		OFF; Cont. open English	OFF; Cont. open		Locked; Cont. open Español	Locked; Cont. open
	BDE-D Language Keyboard Contrast BDE 1 Contrast BDE 2 Brightness BDE 1 Brightness BDE 1 Brightness BDE 1 Brightness BDE 2		s	N N N N N	22	Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0	(S) (S) (S)	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo)		OFF; Cont. open English Polski	OFF; Cont. open English US Magyar		Locked; Cont. open Español	Locked; Cont. open
	BDE-D Language Keyboard Contrast BDE 1 Brightness BDE 1 Brightness BDE 1 Brightness BDE 2 Light time		5	N N N N N	2	Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0	(S) (S) (S)	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo)		OFF; Cont. open English	OFF; Cont. open English US Magyar		Locked; Cont. open Español	Locked; Cont. open
	BDE-D Language Language Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 1 Light time KING		s		22221	Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0	(S) (S) (S)	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo)	40 :	OFF; Cont. open English Polski	OFF; Cont. open English US Magyar		Locked; Cont. open Español	Locked; Cont. open
	BDE-M (mech. panel) BDE-D L Language Keyboard Contrast BDE 1 Contrast BDE 2 Brightness BDE 1 Brightness BDE 1 Brightness BDE 2 Light time KING				2222	Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0	(S) (S) (S)	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) A	40 :	OFF; Cont. open English Polski = permanent light Always locked	OFF; Cont. open		Locked; Cont. open Español	Locked; Cont. open
	BDE-D Language Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 1 Brightness BDE 2 Light time KING Locking function Lock type VRR manually					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0	(S) (S) (S)	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) De	40 :	OFF; Cont. open English Polski = permanent light	OFF; Cont. open English US Magyar		Locked; Cont. open Español	Locked; Cont. open
	BDE-M (mech. panel) BDE-D L Language Keyboard Contrast BDE 1 Contrast BDE 2 Brightness BDE 1 Brightness BDE 2 Brightness BDE 2 Light time KING Locking function Lock type VRR manually Start delay					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S) (S) (S)	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo)	40 :	OFF; Cont. open English Polski = permanent light Always locked	OFF; Cont. open		Locked; Cont. open Español	Locked; Cont. open
	BDE-D Language Locking function Lock type VRR manually Start delay BDE-D Language Locking function Lock type VRR manually Start delay LBUS					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) A 1way locked Locking bolt Enabled Deedo)	40 =	OFF; Cont. open English Polski = permanent light Always locked Magnet	OFF; Cont. open		Locked; Cont. open Español Italiano	Locked; Cont. open
	BDE-M (mech. panel) BDE-D L Language Keyboard Contrast BDE 1 Contrast BDE 2 Brightness BDE 1 Brightness BDE 2 Brightness BDE 2 Light time KING Locking function Lock type VRR manually Start delay					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) De	40	OFF; Cont. open English Polski = permanent light Always locked	OFF; Cont. open		Locked; Cont. open Español	Locked; Cont. open
	BDE-D Language L Language L Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 1 Brightness BDE 2 L Brightness BDE 2 L Ight time KING Locking function Lock type VRR manually Start delay HBUS (Units connected to CAN bus) UT/OUTPUT					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo)	40	OFF; Cont. open English Polski = permanent light Always locked Magnet SI 1	OFF; Cont. open		Locked; Cont. open Español Italiano	Locked; Cont. open
	BDE-D Language L Language L Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 1 Brightness BDE 2 L Brightness BDE 2 L Light time KING Locking function Lock type VRR manually Start delay HBUS (Units connected to CAN bus) UT/OUTPUT STG					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Aki 1 Aki 2 Slovenscina Aki 1 Aki 2	40	OFF; Cont. open English Polski = permanent light Always locked Magnet SI 1 SA 2	OFF; Cont. open		Locked; Cont. open Español Italiano	Locked; Cont. open
	BDE-D Language L Language L Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 1 Brightness BDE 2 L Brightness BDE 2 L Ight time KING Locking function Lock type VRR manually Start delay HBUS (Units connected to CAN bus) UT/OUTPUT					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) AKI 1 AKA 2 BEA Bodyguard Railbeam	40	OFF; Cont. open English Polski = permanent light Always locked Magnet SI 1	OFF; Cont. open		Locked; Cont. open Español Italiano	Locked; Cont. open
	BDE-M (mech. panel) BDE-D Language Language Contrast BDE 1 Contrast BDE 2 Brightness BDE 1 Brightness BDE 2 Brightness BDE 2 Light time KING Locking function Lock type VRR manually Start delay IBUS (Units connected to CAN bus) UT/OUTPUT STG Language Lock IN AUX1_IN Language					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) AKI 1 AKA 2 BEA Bodyguard Railbeam Inactive by 1way	40	OFF; Cont. open English Polski = permanent light Always locked Magnet SI 1 SA 2	OFF; Cont. open		Locked; Cont. open Español Italiano	Locked; Cont. open
	BDE-M (mech. panel) BDE-D L> Language L> Keyboard L> Contrast BDE 1 L> Contrast BDE 2 L> Brightness BDE 1 L> Brightness BDE 2 L> Light time KING Locking function Lock type VRR manually Start delay LBUS (Units connected to CAN bus) UT/OUTPUT STG L> AKA_IN L> AKA_IN_F					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) AKI 1 AKA 2 BEA Bodyguard Railbeam Inactive by 1way and locked		OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open
	BDE-D Language L Keyboard L Language L Keyboard L Contrast BDE 1 Contrast BDE 2 Brightness BDE 1 Brightness BDE 2 L Brightness BDE 2 L BUS Locking function Lock type VRR manually Start delay Lock type VRR manually Start delay L BUS (Units connected to CAN bus) UT/OUTPUT STG L AUX1_IN L AKA_IN L AKA_IN_F L AUX1_OUT L AUX1_OUT L AUX1_OUT					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) AKI 1 AKA 2 BEA Bodyguard Railbeam Inactive by 1way	40	OFF; Cont. open English Polski = permanent light Always locked Magnet SI 1 SA 2	OFF; Cont. open		Locked; Cont. open Español Italiano	Locked; Cont. open
	BDE-M (mech. panel) BDE-D L> Language L> Keyboard L> Contrast BDE 1 L> Contrast BDE 2 L> Brightness BDE 1 L> Brightness BDE 2 L> Light time KING Locking function Lock type VRR manually Start delay LBUS (Units connected to CAN bus) UT/OUTPUT STG L> AKA_IN L> AKA_IN L> AUX1_OUT L> Equential EMERG. STOP Reset					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(S; (S; (S; (S;	Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) AKI 1 AKA 2 BEA Bodyguard Railbeam Inactive by 1way and locked BEA Bodyguard	40	OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open
	BDE-M (mech. panel) BDE-D Language Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 2 Brightness BDE 2 Light time KING Locking function Lock type VRR manually Start delay HBUS (Units connected to CAN bus) UT/OUTPUT STG AUX1_IN AKA_IN AKA_IN AUX1_OUT Sequential EMERG. STOP Reset CELLANEOUS					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) Deedo) AKI 1 Locking bolt Enabled Deedo) AKI 1 AKA 2 BEA Bodyguard Railbeam Inactive by 1way and locked BEA Bodyguard Seq. AKI / AKA Enabled	40	OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open
	BDE-D BDE-D Language L Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 2 Brightness BDE 2 Light time KING Locking function Lock type VRR manually Start delay HBUS (Units connected to CAN bus) UT/OUTPUT STG L AUX1_IN AKA_IN_F L AUX1_OUT Sequential EMERG. STOP Reset CELLANEOUS Push to actuate to open					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo	40	OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open
	BDE-M (mech. panel) BDE-D Language L Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 2 Brightness BDE 2 Light time KING Locking function Lock type VRR manually Start delay HBUS (Units connected to CAN bus) UT/OUTPUT STG L AUX1_IN AKA_IN AKA_IN AKA_IN AUX1_OUT Sequential EMERG. STOP Reset CELLANEOUS Push to actuate to open Alarm display					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo D	40	OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open
	BDE-D BDE-D Language L Keyboard Contrast BDE 1 Contrast BDE 1 Brightness BDE 1 Brightness BDE 2 Brightness BDE 2 Light time KING Locking function Lock type VRR manually Start delay HBUS (Units connected to CAN bus) UT/OUTPUT STG L AUX1_IN AKA_IN_F L AUX1_OUT Sequential EMERG. STOP Reset CELLANEOUS Push to actuate to open					Manual; Automatic; Cont. open 4 Positions Automatic; One-way; Cont. open; Locked Deutsch Danish Türkçe Normal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Automatic; Manual; Cont. open; Locked Français Slovenscina OFF-Mode Deedo) Deedo Deed	40	OFF; Cont. open	OFF; Cont. open		Locked; Cont. open	Locked; Cont. open

This parameter overview shows all possible settings. Depending on drive type and configuration the access is restricted.

System DFA 127 parameter overview D = Value will not be reset after loading default parameter M = Parameter modification via MFT (key) on STG (technical level)							FEM 1 STG 127						≥ V1.10 ≥ V2.40	
PARAMETER FEM 1			Parameter value (facto	ory settings printe	d bo	old)							
Description	D	М	1	2		3		4		5		6		
FEM 1							FEM 1 in use	witl	n STG 127					
L► FEM type		М	Basis		Interlock		I/O-Set 1							
INPUT FEM 1														
L AUX10_IN [64/65]	D	М	Disabled		S_AUS									
L AUX11_IN [66/67]	D	М	Disabled		SEA									
L AUX12_IN [68/69]	D	М	Disabled		SFS_IN									
L AUX13_IN [70/71]	D	М	Disabled											
OUTPUT FEM 1			All outputs can be	cont	figured according to	οA	UX1x_OUT							
L► AUX1x_OUT	D	М	Disabled		Alarm output		Locked		Closed		Open		SAMP	
			SAA		SFS_OUT		OM Automatic		OM One-way		OM Locked		OM Cont. op	
			OM Manual		OM OFF		Locking error		Emerg. stop or open		Maintenance is due		Maint. time exceeded	
L AUX10_OUT [73/74]	D	М	Disabled											
L AUX11_OUT [76/77]	D	М	Disabled											
L AUX12_OUT [79/80]	D	М	Disabled											
L AUX13_OUT [82/83]	D	М	Disabled											
L AUX14_OUT [88/89]	D	М	Disabled											
L AUX15_OUT [90/91]	D	М	Disabled											
L AUX16_OUT [92/93]	D	М	Disabled											
L AUX17_OUT [94/95]	D	М	Disabled											
L AUX18_OUT [96/97]	D	М	Disabled											
L AUX19_OUT [98/99]	D	М	Disabled											
L AUX1A_OUT [100/101]	D	М	Disabled											
L AUX1B_OUT [102/103]	D	М	Disabled											
L AUX1C_OUT [104/105]	D	М	Disabled											
L AUX1D_OUT [106/107]	D	М	Disabled			T								

Instruction FEM 1: Not configurable functions in use with STG 127 are marked with an (*).

Instruction software: The possibilities of FEM 1 depend chiefly on the software version of the control.

5.5 Description of parameters

W = Factory settings: **Basic drive** (FP)

	0	
PARAMETER	W	REMARK
DRIVING CYCLE		
\rightarrow closing speed	1	Speed when closing the door. 0 = lowest speed 40 = highest speed
		 The maximum speed depends on the opening angle and accelera- tion.
\rightarrow Opening speed	8	Change value to 8 after reset!
		Driving speed of the opening door. 0 = lowest speed 40 = highest speed
		 The maximum speed reachable depends upon the opening angle and the acceleration setting.
		– DIN: > 1.5 s <4 s
TIME DELAY OPEN		
\rightarrow time delay open	2	Determines how long the door remains open after it has been opened by a trigger signal.

		by a trigger signal. 020 = 0 to 20 seconds, increment 1 s 2140 = 22 to 60 seconds, increment 2 s			
		 The time delay open starts when all trigger and safety signals for closing stop. 			
→ SSK time delay open	4	Determines the minimum time the door remains open after it has been opened by a trigger signal of the type SSK. 020 = 0 to 20 seconds, increment 1 s 2140 = 22 to 60 seconds, increment 2 s			
		 The hold open time starts when all trigger and safety signals for closing stop. 			

NOTICE

The open duration can be reduced when sensors are used which keep the door open, for example *Time delay*.

OPERATOR

of Elation		
→ opening angle	35	The opening angle is determined during the teach-in run and corresponds to the value 40.
		0 = minimum opening angle
		40 = maximum opening angle
		– DIN : min. 95°

6 Inspection and maintenance

6 Inspection and maintenance

Regular inspection and maintenance of the system by trained and authorized personal from the manufacturer, is the best guarantee for long life and trouble-free secure operation.

These control and maintenance operations are required at regular intervals, following the manufacturer's instructions and the relevant legal requirements.

6.1 General remarks



DANGER

Danger to life due to electric current!

- a) In case of contact with live parts, there is an immediate danger to life due to electric shock. Damage to or removal of the insulation or individual components can be life-threatening.
- ⇒ Before starting work (cleaning, maintenance, replacement) on active parts of electrical systems and equipment, ensure that all poles are voltage free and that this is maintained for the duration of the work.
- ⇒ Keep moisture away from live parts. This can lead to a short circuit.
- \Rightarrow Never bridge fuses or put them out of operation.
- ⇒ Do not connect the power supply until all work has been completed.
- ⇒ Have work on the electrical system performed by qualified personnel only.



IMPORTANT

Specific checks and maintenance may only be carried out by a specialist or a person trained for this purpose. The authorization of these persons is carried out exclusively by the manufacturer. The scope, result and time of the periodic inspections and maintenance must be recorded in an inspection book and a checklist. These documents must be kept by the operator.

According to current legislation, the operator of an automatic door system is responsible for its maintenance and safety.

With the care of the installation by the operator, accidents or defects can be avoided.

Testing

Type of test	Action
Visual inspection	Check door leaves, guides, bearings, limiting devices, sensors, and the securing of crushing and shearing points for damage.
Mechanical inspection	Check fastenings for tight fit.
Safety check (exit and es- cape routes)	Check sensors, safety devices, and monitoring devices for tight fit and damage.
Function testing	Check functioning of switches, operators, controllers, power or energy storage devices, and sensors.
	Also check the adjustment of the safety devices and the setting of all movement se- quences including the end points.
Test run	Final overall review is carried out.

Servicing

Type of servicing	Action
Adjustment and cleaning	Clean and adjust bearings, sliding points, and power transmission.
	Check relevant fastening screws and retighten if necessary.

For documentation and information purposes, the testing and servicing work as well as the condition of the system are recorded in a test log book. The test log book must be kept for at least one year or until the next testing/servicing.



IMPORTANT

The testing and/or servicing interval according to the manufacturer's specification is at least 1 to 2 times a year.



IMPORTANT

The recommended and planned spare and wear parts can be requested from your service center.



Door care

The entire system, including the sensors and safety devices, can be cleaned with a moist cloth and standard commercial cleaners (non-scouring, do not use any solvents). First test the cleaners on a hidden (not easily visible) place. Keep all guides free of dirt.



NOTICE

It is recommended that for carrying out this work, the operating mode (Locked) or (Continuously open) be used, so as to avoid possible injuries from unwanted door movements.

6.3 Maintenance and regular inspection

A safety inspection must be carried out before initial start-up and as required, as well as in accordance with the applicable regulations – **but at least twice a year**. We recommend having maintenance carried out at the same time.

A safety-related inspection must be performed by a competent service technician or an authorized partner.

Maintenance due is displayed on the BDE-D operating unit if this function has been activated. The interval for the output of this message is defined by the number of opening cycles and/or after a certain operating time has elapsed.

Regular inspection and maintenance of the equipment by trained personnel, authorized by the manufacturer, provides the best guarantee for a long service life and trouble-free safe operation.

We recommend concluding a service agreement with the service center responsible for your area.



IMPORTANT

A list of the recommended and planned spare and wear parts can either be seen in the appendix or can be requested from your service center.

Logbook



6.4

IMPORTANT

The following example of a test book serves only as a template. According to local regulations such a logbook must be attached to the door installation and all interventions and recurrent controls must be recorded in it.

Date	Error description / status- no.	Defects corrected / Parts replaced	Service- technician signature

6 Inspection and maintenance

6.4.1 General information

Manufacturer – Information			
Name:			
Street:			
City:			
Telephone:			
Fax:			
E-Mail:			

Distributor – Information			
Name:			
Street:			
City: Telephone:			
Telephone:			
Fax:			
E-Mail:			

Location of system installation (Project information)	
Name:	
Street:	
City:	
Telephone:	
Fax:	
E-Mail:	

System – Information		
Conf. serial – No.:		
System – Type:		
System – Installation date:		

6.4.2 Operator duties

Personal protection requires compliance with the standards and guidelines for publicly accessible facilities.

According to applicable standards and guidelines, automatic door systems must be tested and serviced by qualified persons.

The system operator is responsible for carrying out testing and servicing.



NOTICE

The installation must be inspected during the function and safety check for imbalance and signs of wear or damage to cables, springs and fastening parts. The equipment must NOT be used if repair or adjustment work needs to be carried out.

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CAUTION

Risk of malfunctions, material damage or injuries due to insufficient or missing cleaning or care!

- a) Insufficient or inattentive cleaning or care of the system can lead to malfunctions, damage to property or injury to persons.
- \Rightarrow Check the sensors regularly for dirt and clean them if necessary.
- ⇒ Regularly remove dirt accumulations in the floor rail or under the floor mat.
- \Rightarrow Keep the system free from snow and ice.
- \Rightarrow Do not use aggressive or caustic cleaning agents.
- ⇒ Use road salt or loose chippings only conditionally.
- \Rightarrow Lay the floor mat without folds and flush with the floor.
- ⇒ Equipment required for cleaning purposes such as ladders or similar must not be leaned on or attached to the system.

Tasks system operator

Task	Personnel	Time of implementation	Entry in the inspec- tion book
Maintenance and cleaning of the sensors for safety and triggering	System operator	Weekly, or as required	No
Function and safety check	System operator	Monthly	No
Function test for fire doors	System operator	Monthly, or according to country-spe- cific standards and guidelines	No

Tasks of qualified person

Task	Personnel	Time of implementation	Entry in the inspec- tion book
Acceptance test	Qualified person	After assembly of the door system ready for operation	Yes
Servicing	Qualified person	1 x annually, or according to country- specific standards and guidelines	Yes
Test (inspection)	Qualified person	1 x annually, or according to country- specific standards and guidelines	Yes
Test (inspection) for door systems in escape routes	Qualified person	2 x annually, or according to country- specific standards and guidelines	Yes
Testing of fire doors	Qualified person	1 x annually, or according to country- specific standards and guidelines	Yes
Testing (inspection) for fire doors	Qualified person	1 x annually, or according to country- specific standards and guidelines	Yes
Servicing for fire doors	Qualified person	1 x annually, or according to country- specific standards and guidelines	Yes

6.4.3 Commissioned technician

Technicians are people:

- that on the basis of their technical training, knowledge, experience and work, perform their assigned test properly and identify and evaluate potential hazards.
- that have sufficient knowledge in the field of automatic door systems, relevant national safety regulations, accident prevention regulations, directives and generally recognized technical regulations, so they can judge the secure working condition of automatic door systems.
 These people include, for example, technicians from the manufacturing or supplying company, relevantly experienced, trained personnel authorized by the manufacturer or other persons with appropriate expertise.

Experts must submit their assessment objectively from the standpoint of personal and operational safety without being influenced by other requirements, such as i.e. economic circumstances.

6.4.4 Legal principle



NOTICE

According to EN 16005 / DIN 18650 / Machinery Directive, the system must be inspected by an expert before initial commissioning and then according to the manufacturer's instructions or at least once a year.

The special significance for personal protection requires compliance with these special regulations.

6.4.5 Extent of the inspection

The test is carried out according to the manufacturer's test instructions. The result of the test is recorded in a test protocol and recorded in the test logbook.

The inspection usually takes place at the same time as the maintenance of the system.

The inspection also checks whether no changes have been made to the system since the last inspection and whether it meets the current safety requirements.

6.4.6 Requirements for documentation

Extent, results and dates of the periodic inspections, must be documented and kept by the operator in an Inspection- and Maintenance log book.

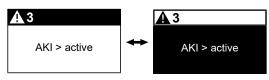
The contractor / operator must be informed of the results in writing.

The contractor / operator requires the inspection report (check list) for proof that the periodic inspection was performed and/or as documentation for construction authorities or accident and liability insurances, etc.

7 Malfunctions

7.1 Status displays

Malfunctions are shown on the LCD display. If there is a malfunction, the display switches between the operating mode level to the error display / light and dark as shown in the following figure. Every 2 seconds the backlight changes flashing between black and white.



Status displays with a "W" are warnings for which no switching of the fault output relay takes place.

The status can be cleared/reset by pressing the key for 5 seconds. This restarts the control unit.



NOTICE

Phone number and maintenance are only displayed if this has been activated by the Service department.

Button	Operation	Function	Display on LCD
E	Press button 1 x	Return to the main menu for 4 seconds	Automatic
E	Press button for 2 seconds	Information about the drive sys- tem e.g. software version	i Software DFA127 V2.30 BDE-D V2.70
E	Press button 1 x	Scroll through the information	Software DFA127 V2.30 BDE-D V2.70
E	Press button 1 x	Scroll through the information	Service Center 0041449549191 Hast malfunction 37 Motor current
E	Press button 1 x	Scroll through the information	

Multiple malfunctions can be displayed, e.g. 1 / 2. If there are multiple malfunctions, they are numbered as follows.

Button	Operation	Function	Display on LCD
E	Press button 1 x	Scroll through the malfunction displays	A 38 master 1/2 Temp. motor 1 2/2 AKI > active AKI > active

The return to the main view is done by keystroke or automatically after 20 seconds.

7 Malfunctions



7.2 Troubleshooting



NOTICE

The following malfunctions on the door can only be corrected if an electronic control unit with display is present.



NOTICE

A detailed description of the error messages can be found in the book B8A 102-020401152.

Malfunction	Cause	Measure	Personnel
Display shows a malfunction mes- sage.	Malfunction present	Restart controller and/or control panel.	System operator
Door does not work.	No power connected.	Check power connection.	System operator
	Incorrect operation mode se- lected.	Check operation mode.	System operator
	Status LED flashing	Restart controller and/or control panel.	System operator
	Malfunction message on the display of the BDE-D	Restart controller and/or control panel.	System operator
	Defective	Close the door manually and notify a service engin- eer.	System operator
Malfunction message still present after restart.	Malfunction could not be rec- tified.	Qualified personnel are required to rectify the mal-function.	Qualified person- nel
		Show and read out sys- tem information about the door on the display.	System operator
		Notify service center.	
		If necessary, close the door manually.	
Signal tone every 5 seconds (only with battery pack option)	No power present.	Switch on the mains power supply.	System operator
	Mains fuse defective.	Replace the fuse.	System operator
	Fuse on the operator's power supply unit defective.	Replace the fuse.	Qualified person- nel

8 Taking out of service and disposal

8.1 Decommissioning

When shutting down or taking out of service, the system is disconnected from the mains supply and any existing battery is unplugged.



NOTICE

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

8.2 Dismantling and disposal



IMPORTANT

All machine parts must be sorted by type of material and disposed according to local regulations and guidelines.



NOTICE

The door systems can be completely disassembled in reverse order.

The installation mainly consists of the following materials:

Aluminum:

- Linking profiles
- Gearbox, Drive panel
- Door wing profiles and side profiles
- Various profiles and small parts

Steel / iron parts:

- Stainless steel casing, Floor panel, Box recess for floor installation
- Optional spacer or reinforcement profiles
- Gear components, springs
- Various small parts like fittings, covers, linking parts, etc.

Glass:

- Door wings and side panels

Various electronic and electromechanical components:

- Sensors, control and operator components
- Batteries and rechargeable batteries

Various plastics:

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

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