



record BDE-D-KTA

User manual

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List of changes

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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

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.

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!



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.



MUST READ

**The equipment must be inspected during the functional and safety check for imbalance and signs of wear or damage to cables, springs and fasteners.
The installation CANNOT be used if repair or adjustment work has to be carried out.**



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.
 - ⇒ Settings should only be made by personnel qualified to do so.
 - ⇒ Do not disassemble, put out of operation or manipulate safety devices.
 - ⇒ 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.
 - ⇒ Check the sensors regularly for dirt and clean them if necessary.
 - ⇒ Regularly remove dirt accumulations in the floor rail or under the floor mat.
 - ⇒ Keep the system free from snow and ice.
 - ⇒ Do not use aggressive or caustic cleaning agents.
 - ⇒ Use road salt or loose chippings only conditionally.
 - ⇒ 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.
 - ⇒ 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.
 - ⇒ 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.
 - ⇒ 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.
 - ⇒ Do not reach in when parts of the system are moving.
 - ⇒ Keep a distance when parts of the system move.
 - ⇒ 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 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.
 - ⇒ 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.



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:



Hearing protection is used to protect the hearing from noise. As a rule of thumb, hearing protection is compulsory from when normal conversation with other people is no longer possible.



The head protection serves to protect against falling and flying parts and materials. It also protects the head from bumping into hard objects.



Protective goggles protect the eyes from flying parts, dust, splinters or splashes.



Protective gloves are designed to protect hands from friction, abrasions, punctures or serious injury and from burning caused by contacting hot surfaces.



Safety shoes protect the feet from crushing, falling parts and slipping on surfaces. The puncture resistance of the shoes ensures, that pointy objects do not penetrate the foot.



The high-visibility vest is used to make the personnel stand out and therefore to be seen. With improved visibility and attention, the high-visibility vest protects personnel in busy work areas from collisions with vehicles.

Depending on the place of work and the working environment, the protective equipment varies and must be adapted accordingly. In addition to protective equipment for specific work, the work site may require other protective equipment (for example a harness).

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.

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

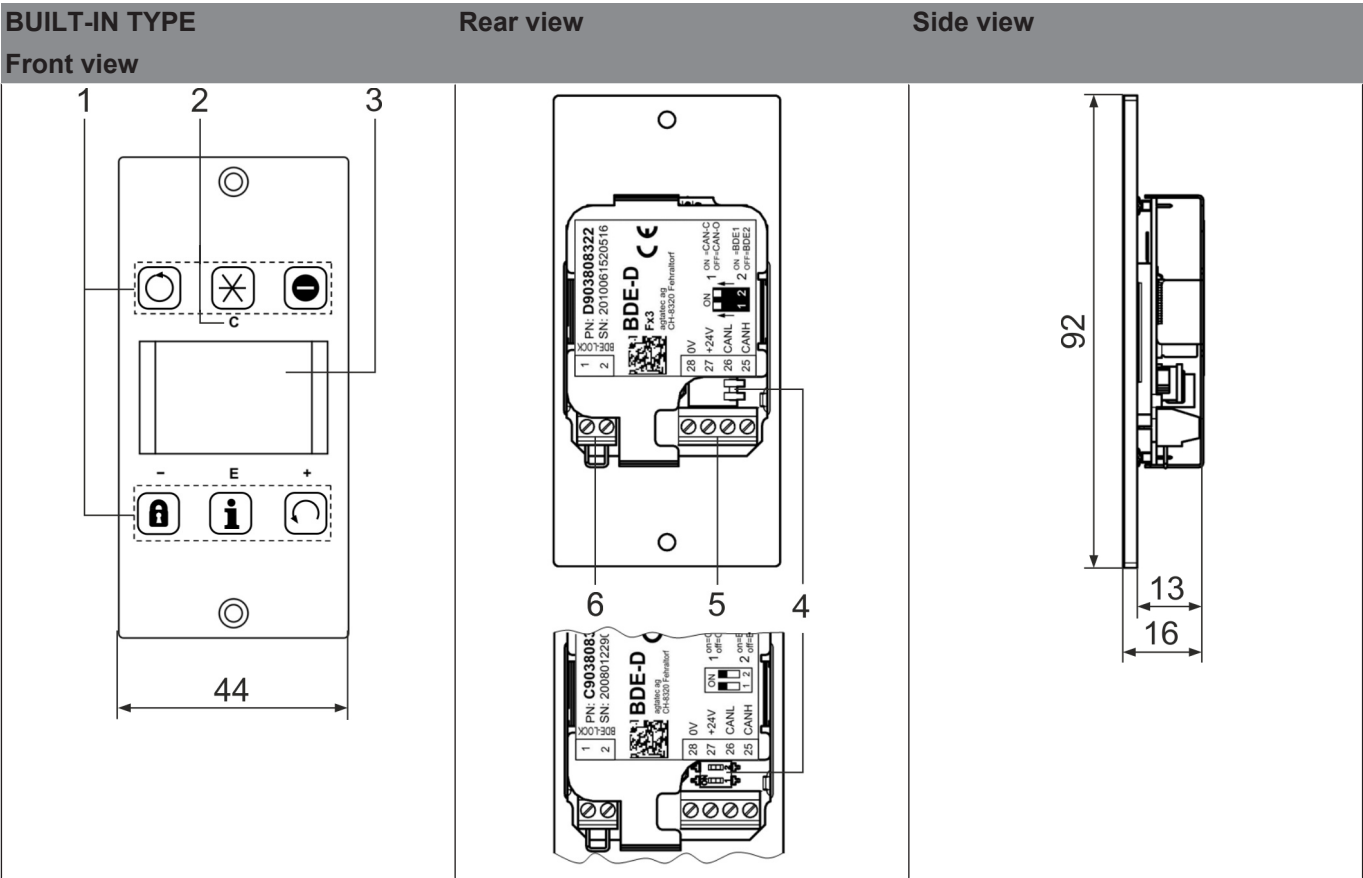
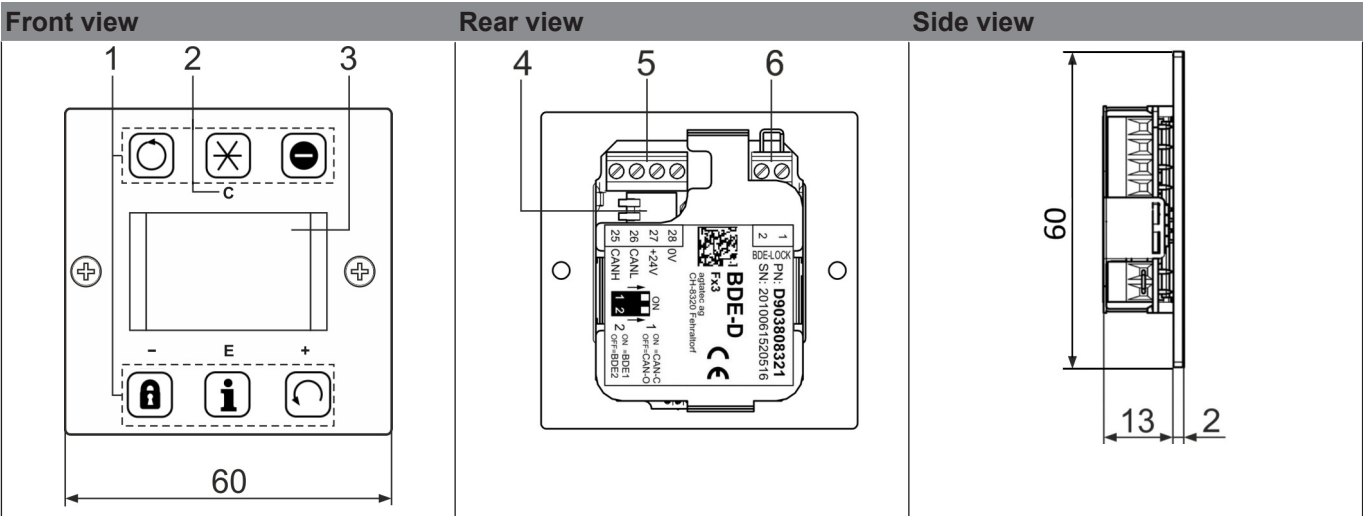
2.6 Definition of terms

Term:	Explanation:
System	<p>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.</p> <p>If information in these instructions refers to a specific type, this is shown accordingly in the text.</p>
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 obligations with regard to fulfilling the requirements of the Machinery Directive. In particular, the authorized representative may also place the system on the market and/or sign EC declarations of incorporation.
Qualified personnel	<p>Qualified personnel are authorized and appropriately trained to perform the following work:</p> <ul style="list-style-type: none"> – Disassembly, Assembly, Commissioning, Operation, Audit, Maintenance, Troubleshooting, Decommissioning <p>The qualified personnel have several years of professional experience in the technical field, e.g. as mechanics or machine fitters.</p> <p>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.</p>
Manufacturer	The manufacturer is whoever designs and/or builds machinery or incomplete machinery 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 personnel. Personnel can be, for example, the operator, the cleaning staff, or the security staff. The personnel meet the personnel qualifications required by the manufacturer.
Service technician	Experts and specialists or representative authorized by the manufacturer to perform commissioning, maintenance and servicing.

3 Description

3 Description

3.1 Identification

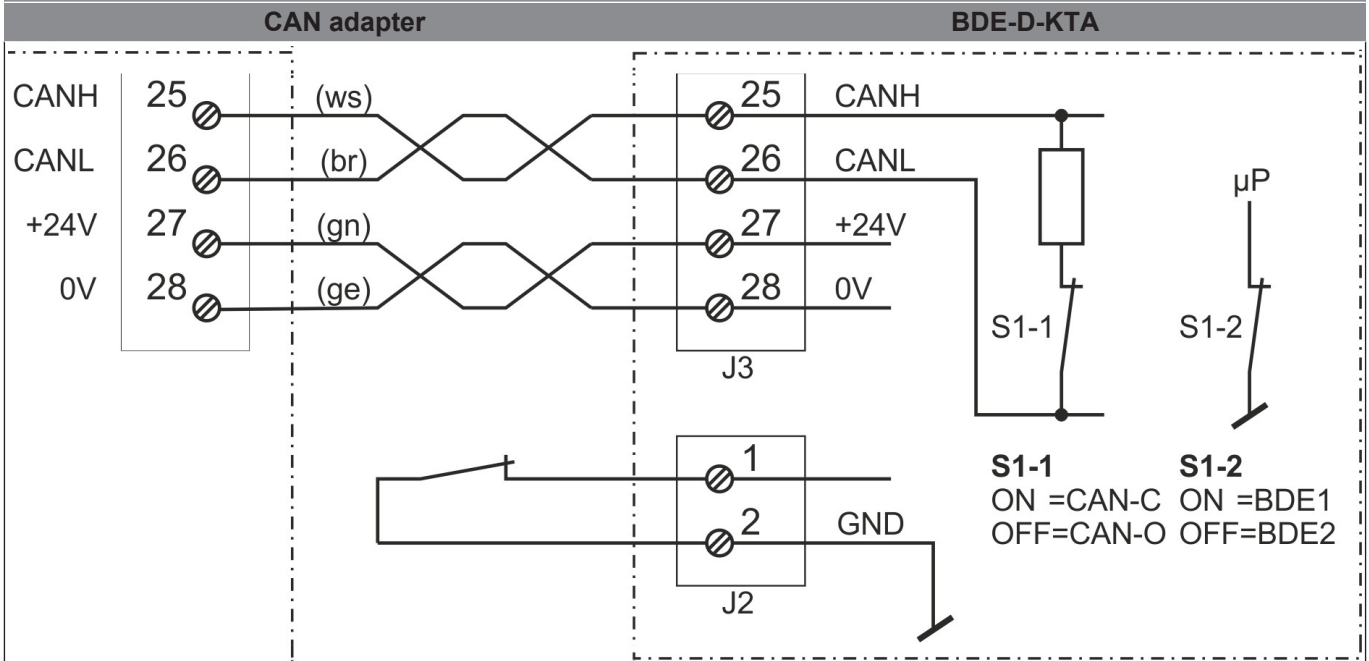


1	Keypad with 6 keys	4	DIP-switch CAN-termination / selector BDE 1 or 2
2	Navigation information	5	Terminal board CAN bus
3	LCD display	6	Terminal board for external service lock

3.2 Connection to control unit

**NOTICE**

This chapter is intended for service personnel.

Connection to the CAN bus

Connect the connecting cable to the CAN connection and connect it to the CAN connection of the controller (wires twisted in pairs).

DIP switches (S1-1, S1-2) must be set before connection! These are set to ON at the factory.

ON=CAN-C: CAN termination closed

(Optional) Can an operating lock be integrated via J2, e.g. for key switch. Equipped with a wire bridge at the factory.

Wire colours

ws:	white	gn:	green
br:	brown	ge:	yellow







4 Technical Data

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 Operation

5.1 Key functions

Function	Operating button
– Selection of the corresponding operating mode	    
– Display of additional information – Initiating the operation lock – Restart the controller – Restart Hardware of the operating unit	



NOTICE





You can switch to the menu display by briefly pressing the INFO BUTTON twice.



In this area, the keys have the function printed above or below the keys (navigation information).

Example: The INFO BUTTON has the function "E" (Enter / confirm input).



Function	Operating button
– Select menu item – Confirm input (E = Enter)	E 
– Movement direction downwards when selecting menu items – Slider to the right to increase the value	+ 
– Movement direction upwards when selecting menu items – Slider to the left to reduce the value	- 
– Exit menu item – Cancel without saving (C = Cancel)	 C





NOTICE

Automatic return to main view 3 min. after last input.


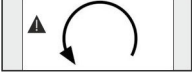

5.2 Instructional symbols

If information is required or an error message occurs, the display continues to show the current operating mode (see example 1 + 2). However, the instructional symbol will be also be displayed.

Both instructional symbols could be displayed at the same time (see example 3).

Type	Instructional symbol
Information	
Error	

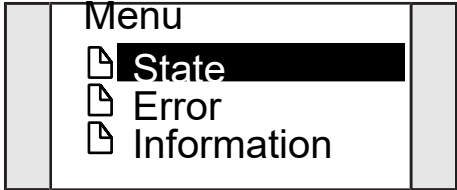
5 Operation

Type	Instructional symbol
Example 1: Operating mode with information symbol	
Example 2: Operating mode with error symbol	
Example 3: Operating mode with both instructional symbols	

5.3 Menu display



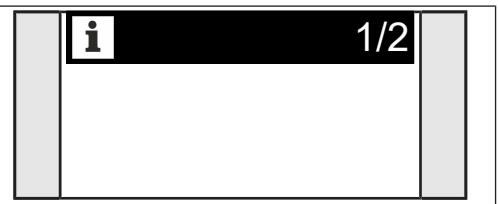
You can switch to the menu display by briefly pressing the INFO Button twice (double-click).

<p>The menu display is used to select the defined event groups (information and errors) or the system information to call up the corresponding submenu.</p> <p>The display is as a list, the currently selected entry is inverted (light text on dark background).</p>	
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5.4 Status display

The status display shows information with status number and message in plain text. If there is more than one piece of information, the number and the current entry number is also displayed.

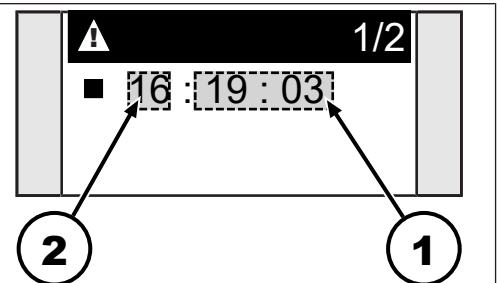
The next entry is called up by pressing the info key.



5.5 Error display

Current errors are displayed in the error display as a list of the error numbers without plain text display in decimal format. The error number consists of error source (2) and error number (1).

Up to three error codes can be listed per display. If there are more errors, the number of displays and the current display number are also displayed. The next page is called up by pressing the info key.









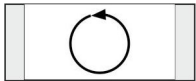

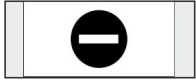


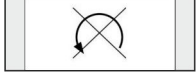
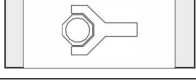




5.6 Select the mode of operation






NOTICE


Depending on the system variant, not all operating modes are available.

Operating modes/*-	Operating button	Standard display symbols
LOCKED		
UNLOCKED or SSK opening For SSK opening, press the lock button 1x more time.		
AUTOMATIC		








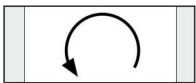
Operating modes/*-	Operating button	Standard display symbols
CONTINUOUS		
ONEWAY		
MANUAL 2x briefly or 1x long (>2s) press		
Restart lock		
Emergency operation button		
SLIDING DOOR OPERATION 2x briefly or 1x long (>2s) press		
WINTER OPERATION		

5.7 Restart via keyboard

Restart the controller				
Press key sequence			Display icon	Description of the
<div>E</div> <div></div>	<div></div>	<div>E</div> <div></div>	Reset control ?	<ul style="list-style-type: none">– Press the Info button for 5 seconds.– Press the corresponding key to confirm.– The controller is restarted.
	No	Yes		

Restart hardware BDE-D-KTA			
Press key sequence		Display icon	Description of the
<div>E</div> <div></div>		Welcome	<ul style="list-style-type: none">– Press the Info button for 12 seconds.– The hardware is restarted.

5.8 Operating lock via the keyboard

Locking the control unit				
Press key sequence			Display symbol	Description
				<ul style="list-style-type: none"> – The control panel keys are locked. – Unwanted manipulation of the control unit is impaired. – The locked state of BDE-D-KTA control unit is displayed on the screen with a key symbol (bottom left).
Unlocking the control unit				
Press key sequence			Display symbol	Description
				<ul style="list-style-type: none"> – The control panel keys are activated. – Operating modes and special functions can be selected.

6 Malfunctions

6.1 Error elimination



NOTICE

Sometimes malfunctions can be remedied by the operator himself. If the operator do not remedy the fault, contact the responsible service centre.

Before calling, please note the information which is shown on the display of the BDE-D-KTA operating unit. This information provides the service technician with important information for possible troubleshooting.

Troubleshooting		
Disruption	Display icon	Description of the
Error number		<ul style="list-style-type: none">– There's an error– Contact Service
No display		<ul style="list-style-type: none">– Check connections– Contact Service
CAN disruption		<ul style="list-style-type: none">– No connection to the controller– Contact Service

7 Taking out of service and disposal

7.1 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.

7.2 Dismantling and disposal



IMPORTANT

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



NOTICE

The door systems can be completely disassembled in reverse order.

The automatic door 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
- Lead batteries and nickel-cadmium rechargeable batteries

Various plastics:

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

