

record FlipFlow Triple

User manual

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Document identification

Article nr.:	121-006454287
Version:	4.0
Publication date:	17/09/2024

Translation of the original manual

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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 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.



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-approved maintenance technicians exclude the manufacturer's liability for consequential damages.



NOTICE

The operation of an automatic door in combination with a wicket door must 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.



DANGER

Electric Shock!

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.

- a) 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.
- b) Keep moisture away from live parts. This can lead to a short circuit.
- c) Never bridge fuses or put them out of operation.
- d) Do not connect the power supply until all work has been completed.
- e) Have work on the electrical system performed by qualified personnel only.



DANGER

Serious or fatal injuries!

If safety devices of the fire protection system do not function properly, there is a risk of serious or fatal injuries.

- a) Never disconnect the fire protection system from the power supply overnight.
- b) Do not disassemble, put out of operation or manipulate safety devices.
- c) Do not remove safety instructions on the system.
- d) Never block, hold open or otherwise prevent fire doors from closing.
- e) Have inspection, service and maintenance of the fire protection system carried out in accordance with locally applicable regulations or according to a maintenance contract.
- f) Have the fire protection system checked and maintained according to the state of the art.



WARNING

Serious injuries and major material damage.

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

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



CAUTION

Risk of malfunctions, material damage or injuries!

Improper settings can lead to malfunctions, material damage or injuries.

- a) Do not disconnect the system from the power supply overnight.
- b) Settings should only be made by personnel qualified to do so.
- c) Do not disassemble, put out of operation or manipulate safety devices.
- d) Have faults rectified by specialist personnel or by personnel qualified to do so.
- e) 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!

Insufficient or inattentive cleaning or care of the system can lead to malfunctions, material damage or injuries.

- a) Check the sensors regularly for dirt and clean them if necessary.
- b) Regularly remove dirt accumulations in the floor rail or under the floor mat.
- c) Keep the system free from snow and ice.
- d) Do not use aggressive or caustic cleaning agents.
- e) Use road salt or loose chippings only conditionally.
- f) Lay the floor mat without folds and flush with the floor.
- g) 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 injuries!

The door can open, close or turn unexpectedly. This may result in material damage or injuries.

- a) No persons may be present in the opening area of the system.
- b) Ensure that moving objects such as flags or parts of plants do not enter the detection range of the sensors.
- c) Do not make any settings on the control unit when the system is in use.
- d) Have faults rectified immediately by specialist or personnel qualified to do so.
- e) Remove objects from the opening area.
- f) Do not disassemble, put out of operation or manipulate safety devices.
- g) Do not rush through a closing system.



CAUTION

Risk of bruising and severing of limbs!

If the system moves, careless behaviour can lead to serious injuries to limbs or severance of limbs.

- a) Do not reach in when parts of the system are moving.
- b) Keep a distance when parts of the system move.
- c) Do not bump into or touch the system when it is moving.
- d) Do not open or remove protective covers during operation.
- e) Do not permanently remove covers from the system.
- f) Only carry out inspection, service, maintenance and cleaning when the system is stationary and switched off.



CAUTION

Risk of material damage or injuries!

If safety devices are not functioning, manipulated or put out of operation, there is a risk of material damage or injuries that can lead to death.

- a) Never disable or manipulate safety devices.
- b) Have inspection, service and maintenance of the safety devices carried out according to local regulations or according to a maintenance contract.



CAUTION

Risk of malfunctions, material damage or injuries!

If unauthorised persons use the system, there is a risk of malfunction, material damage or injuries.

- a) Children under 8 years of age may only use the system under supervision.
- b) Children must not play, clean or maintain the system.
- c) 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.



NOTICE

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



NOTICE

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

Before work can be started, persons must be barred from the system and the danger area.

1.4 State of technology

The system has been developed in accordance with the state of the art and recognized safety regulations and, depending on the options and dimensions, meets the requirements of the Machine Directive 2006/42/EC.

Nevertheless, hazards to the user may arise if the system is not used as intended.



NOTICE

Installation, commissioning, inspection, maintenance, and repair work must 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.



NOTICE

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

2.2 Copyright

The copyright of the instructions remain at:

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It is prohibited to reproduce, distribute or use the manuals for purpose of competition without the written authorization of ASSA ABLOY.

Violation of the here stated copyrights will be prosecuted and fined with compensation of damage.

2.3 Product identification

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

2.4 Manufacturer

ASSA ABLOY Entrance Systems AB

Lodjursgatan 10 SE-261 44, Landskrona SWEDEN

2.5 Target groups



CAUTION Risk of injury!

If unqualified personnel work on the system or are in the danger zone of the system, danger can occur, which can cause serious injuries and considerable material damage.

- a) All work must be carried out by approved personnel only.
- b) Keep unapproved 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 about 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	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, can 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.

3 Description

3.1 Product overview



3 Description

3.2 General Description

The system is designed for automatic handling of passenger traffic in and around airports and other security-sensitive buildings. People walk individually through the corridor in only one direction and without the ability to go back in the direction they came from, i.e. in the opposite direction. The system also prevents uncontrolled access by people coming from a public area to a security zone or a protected area.

Applications:

- At airports between public areas and security zones (e.g. landside/airside)
- For the protection of other security sensitive areas such as ports and railway stations
- For controlling access to public buildings or industrial facilities

3.3 Safety features and controls

3.3.1 Operating unit



3.3.2 iPort



3.3.3 Traffic lights

The signalling depends on the selected operating mode and the additional functions ordered by the customer. In the basic version, the system has an LED display on the door.

3.3.4 BDE-Lock key switch



3.3.5 Emergency open button (options)



4 Specifications

4 Specifications

4.1 Dimensions



	Dimensions (millimetre & inch)					
Door type	650	900	1100	1200	1400	
A	650 mm / 25,591	900 mm / 35,433	1100 mm / 43,307	1200 mm / 47,244	1400 mm / 55.118	
	inch	inch	inch	inch	inch	
			A = routing width			
В	6520 mm / 256,69 inch					
С		614	48 mm / 242,05 inch	es		
D	980 mm / 38,465 inch	1230 mm / 48,307 inch	1430 mm / 56,181 inch	1530 mm / 60,118 inch	1730 mm / 68.110 inch	
G	2150 mm / 84,65 inch					
	G = routing height					
J	2363 mm / 93,03 inch					
			J = total height			

4.2 Electrical inputs and connections



DANGER

Electric Shock!

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.

- a) 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.
- b) Keep moisture away from live parts. This can lead to a short circuit.
- c) Never bridge fuses or put them out of operation.
- d) Do not connect the power supply until all work has been completed.
- e) Have work on the electrical system performed by qualified personnel only.



DANGER

Danger to life in case of faulty installation

- a) There is an immediate danger to life by electric shock when touching live parts. Incorrect installation of individual components can be life-threatening.
- ➡ If possible, the wiring for low voltage and mains voltage should be installed in a separate cable duct.
- All wiring must be routed, secured and protected from moving parts, heat sources and sharp edges.
- ⇒ All electrical components inside the covers, must lie securely or be fixed with adhesive tape.

NOTICE

Electrical inputs are located on the control unit. Inputs for the power supply line are available at each column.



NOTICE

If several systems are installed in parallel, the power supply must be provided via the floor on the two outer columns.

NOTICE

The building management system cables can also be connected via the floor. However, they must never be connected to the 115 / 230 VAC supply cables.



NOTICE

The system is designed for a fixed connection to the electrical supply network. Proper earthing must be provided and the cabling must comply with local regulations.

Electrical data: 115 / 230 VAC / 50-60 Hz / 1000 watts | 1 Phase / 3 Wires

Mains voltage:	115-230 VAC
Frequency:	50-60 Hz
Power consumption:	max.: 1000 watts

5 Operation

5.1 Menu



NOTICE

The keys on the operating unit are used to set the operating modes in the main menu and the system parameters in the submenu.

The functions of the keys differ from the main menu to the submenu.

	Main menu				
Key	Name	Operation	Function	Display example	
	Open	Press key 1 x	Open, sensors deactivated		
*	Star	Without function	Without function		
*	Interlock	Press key 1 x	Monitoring from both direc- tions	Ŕ	
	Locked	Press key 1 x	Door closed, sensors deac- tivated		
ĺ	Info	Restart control unit Press the key for 5 seconds	Restart control unit	No Reset controller? Yes	
		Restart hardware oper- ating unit Press the key for 12 seconds	Restart hardware operating unit		
		Press key 2 x	Access to parameter menu		
	Flow	Press key 1 x	Monitoring from both direc- tions	**	



NOTICE

The return from the submenu to the main menu takes place automatically 3 minutes after the last entry.

	Submenu				
Key	Name	Operation	Function	Display example	
i	Enter	Press the key 1 x to ac- cess the next submenu.	Select menu item (ex: error, status, parameter), confirm entry		
	Plus	Press the key 1 x to move down.	Navigation down in the menu		
	Minus	Press the key 1 x to move upwards.	Navigation upwards in the menu		
×	Clear	Press the key 1 x to re- turn to the previous menu	Exit menu item without sav- ing		

5.2 Performing a reset

	Reset of the operating unit					
Step	Key	Operation	Function	Display example		
1.	i	Press key for 12 seconds	Reset the operating unit (connection is established)			

	Reset the control system				
Step	Кеу	Operation	Function	Display example	
1.	i	Press key for 5 seconds	Reset the control system	No Reset controller? Yes	
2.	×	Press key 1 x	Cancel reset		
	i	Press key 1 x	Performing a reset		

5.3 Lock the operating unit



NOTICE

If the key switch BDE-Lock is turned to blocked, the operating unit is locked. Alternatively, the operating unit can be locked via the keyboard.

Activate operation lock via keyboard				
Кеу	Operation	Function	Display example	
	Press the key sequence as shown To deactivate, press the key se- quence again	No settings can be made on the operating unit.		

	Activating the opera	tion lock with the key	
Prerequisite	Operation	Function	Display example
The desired operat- ing mode is set.	Activate/deactivate the operating lock with the key	No settings can be made on the operating unit.	

5.4 Operating modes and functions



NOTICE

The TWIN system type consists of one entrance (entrance door) and one exit (exit door). The TRIPLE system type has an additional middle door. The chapters apply to both system types.

5.4.1 INTERLOCK operating mode

NOTICE

INTERLOCK mode has fewer passage varieties than FLOW mode but offers maximum security, even between two arrivals, a time where the number of passengers is low.

Initial state: λ

- Lighting on.
 - Entrance door closed.
 - Centre door closed.
 - Exit door closed.
 - LED strips green.
 - Pictogram at entrance green.
 - Pictogram at exit red.

Cycle:

- A person is detected by the entrance sensor and the door opens.
- The person enters the tunnel and closes the entrance door if no other person approaches within a parameterizable period or the maximum number of persons has been reached. Once the system has decided to close the door, the LED strips at the entrance change to red.
- The LED strips in the centre and at the output flash to indicate to the person that they should wait.
- As soon as the entrance door is closed, the centre door and exit door open and at the same time the colour of the LED strip in the centre and at the exit changes to green and the LED strip at the entrance flashes.
- The person(s) leave(s) the tunnel, the centre door and exit door close.
- In order to increase throughput and reduce possible waiting times, the entrance door opens again when the exit door is closed and the airlock is empty. After a short waiting period, the entrance door closes again. If the sensor of the entrance door detects another person, the system returns to its normal INTERLOCK mode.
- End of cycle

5.4.2 CLOSED and LOCKED operating mode



Also serves as a manual reset

- Status: – Illumination is off.
- LED-Strips and pictograms are red.
- Doors are closed and locked.

5.4.3 OPEN operating mode



NOTICE

If detection in the tunnel is deactivated, it is possible to pass through in both directions without triggering an alarm.

If detection is activated, it is only possible to pass in the authorized direction without triggering an alarm.

	Status:
	– Lighting on.
	 Entrance door open.
	 Centre door open.
	– Exit door open.
	 LED strips at entrance green.
	 LED strips in the middle green.
	 LED strips at exit green.
	 Pictogram at entrance green.
	- Pictogram at the exit is red or green, depending on the configuration.

5.4.4 FLOW operating mode



NOTICE

FLOW mode offers a wide variety of passage possibilities as there are no restrictions for the doors to open simultaneously, although maintaining a certain level of security thanks to a very low response time of the anti-pass-back system.



Initial state:

- Lighting on.
- Entrance door closed.
- Centre door closed.
- Exit door closed.
- LED strips at entrance green.
- Pictogram at entrance green.
- Pictogram at exit red.

Cycle:

- A person arrives in front of the entrance sensor, the door opens.
- The person enters the tunnel, the door closes again (if another passenger arrives, the door stays open).
- The person reaches the centre door, the door opens.
- The person arrives in front of the exit door, and the door opens.
- The person exits the tunnel, the door closes again (if another passenger arrives, the door stays open).
- End of cycle.

5.4.5 CLEANING mode



NOTICE

This mode allows the system to be cleaned without triggering an alarm while keeping the entrance door closed and locked. This mode can activate by pressing a switch on the system. This switch is provided by the customer.

Status when cleaning air side:

- Lighting on.
- LED strips off.
- Pictogram at entrance red.
- Pictogram at exit red.
- Entrance door open.
- Centre door open.
- Exit door closed and locked.

Status when cleaning land side:

- Lighting on.
- LED strips off.
- Pictogram at entrance red.
- Pictogram at exit red.
- Entrance door closed and locked.
- Centre door open.
- Exit door open.

This mode can be exit in two ways:

- The service personnel deactivate this mode themselves before the set time expires and the system goes back to the operating mode previously set.
- The system sends an audible signal indicating that the set time has expired, after a second time delay, the system will prepare to close. If the tunnel is empty, it will go back to the previous operating mode. If not, the alarm will continue to sound until the service personnel has evacuated the tunnel.

5.4.6 MAINTENANCE mode



NOTICE

This operating mode allows the service technician access without triggering an alarm. This function can be activated with a local key switch provided by the customer.

Status:

- Illumination is on.
- LED-Strips are yellow.
- Entrance and exit pictograms are red.

Maintenance secure area (airside):

- Entrance door is open.
- Centre door open.
- Exit door is closed and locked.

Maintenance public area (landside):

- Entrance door is closed and locked.
- Centre door open.
- Exit door is open.

5.4.7 Function Authorised access



NOTICE

When this function is activated, an authorized person is entitled to pass through the system in the opposite direction. This function can be activated with a button or switch provided and installed by the customer or via the BMS (Building Management System).

Status:

- Illumination is on
- LED-Strip are red
- Entrance door pictogram is red
- Exit door pictogram is green, if access is allowed

Cycle:

- If the tunnel is empty and locked, then the middle door (Triple) and exit door will open in this function and after a delay time or person detection in tunnel 1, the middle door and exit door will close again. If there is still a person inside the tunnel 1, then the entrance door will open to allow the person to leave the tunnel and then the entrance door will close again. If the tunnel is empty then the system will return to the previously set operating mode.
- If there is still a person in the tunnel or a new person has entered the tunnel, the middle door and exit door will
 open and the person must leave the system in the exit direction.

5.4.8 Function Emergency opening



NOTICE

When this function is activated, the system doors open regardless of the status of the safety sensors. This mode is activated in case of fire or emergency by a remote switch in the building management system. This switch is provided by the customer and interrupts the connection between J2: Pin 7 + Pin 8 on SST 200 (-3A1) at the entrance door.

5.4.9 Function Emergency closing

NOTICE

When this function is activated, the systems entry door will close regardless of the status of the safety sensors. This mode is activated by a remote switch in the building management system. This switch is provided by the customer and interrupts the connection between J2: Pin 4 + Pin 5 on SST 200 (-3A1) at the entrance door.

5.4.10 Function POWERSAVE



NOTICE

If the system is not used for a certain time, the lights turn off and switch back on automatically for the next cycle.

5.4.11 Function Antipassback



NOTICE

A person crosses the exit door threshold in the opposite direction, an alarm is set off and the entrance door closes.

5.4.12 Function in case of power failure (POWER-UP)



NOTICE

In case of power failure, the backup battery (option) is activated.

By default, the entrance door is closed and locked. The exit door and centre door are opened. As soon as the power supply returns, the system is set to alarm mode and a check of the empty tunnel is carried out. Afterwards, the last set operating mode is continued.

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



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.

- a) 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.
- b) Keep moisture away from live parts. This can lead to a short circuit.
- c) Never bridge fuses or put them out of operation.
- d) Do not connect the power supply until all work has been completed.
- e) Have work on the electrical system performed by qualified personnel only.



NOTICE

Specific inspections 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.



NOTICE

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



NOTICE

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

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 escape routes)	Check sensors, safety devices, and monitoring devices for tight fit and damage.

6 Inspection and maintenance

Type of test	Action
	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 sequences including the end points.
Test run	Final overall review is carried out.

Servicing

Type of servicing	Action
, , , , , , , , , , , , , , , , , , , ,	Clean and adjust bearings, sliding points, and power transmission.
	Check relevant fastening screws and retighten if neces-
	sary.

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.

6.2 Operator duties

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

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



NOTICE

The system must be inspected by an expert before initial commissioning and subsequently according to the manufacturer's instructions or at least once a year.



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.



CAUTION

Risk of malfunctions, material damage or injuries!

Insufficient or inattentive cleaning or care of the system can lead to malfunctions, material damage or injuries.

- a) Check the sensors regularly for dirt and clean them if necessary.
- b) Regularly remove dirt accumulations in the floor rail or under the floor mat.
- c) Keep the system free from snow and ice.
- d) Do not use aggressive or caustic cleaning agents.
- e) Use road salt or loose chippings only conditionally.
- f) Lay the floor mat without folds and flush with the floor.
- g) 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		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

Tasks of qualified person

The inspection is carried out according to the manufacturer's test instructions.

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.

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

7 Malfunctions

7 Malfunctions

7.1 Status displays

NOTICE
The status display shows information with status number and message in plain text. If there is more than one piece of information (e.g. malfunction), the number and the consecutive entry number are also displayed.
The next entry is called up by pressing the info key.

Key	Operation	Function	Display example
Ľ	Press key 1 x	Change of information if several messages are pending Return to main menu for 4 seconds, then display of in- formation again	<u>×</u>

7.2 Error displays

Key	Operation	Function	Display example
ľ	Press key 1 x	The current errors in the error display are shown as a list of error numbers without plain text display in decimal format. The error number is composed of the error source and the error number.	▲ • 01 : 10 : 01
		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 shown. The next page is called up by pressing the info key.	

7.3 Examples of errors / alarms

7.3.1 Power failure



NOTICE

In the event of a power failure, the entrance door closes and locks, while the middle door (triple) and exit door unlock and open. Lighting and signal indicators are off. The unit remains in this position until power is restored. This mode is only available if the optional battery is selected. Without the battery, the system stops in its current position and the doors can be opened manually.

7.3.2 Disturbance alarm



NOTICE

The following is a list of situations in which an alarm can be triggered due to disturbance of the flow of people (=buzzer). With regard to the delayed triggering of the corresponding alarm messages, run-on times are programmed.

7.3.3 Technical alarm

This alarm is triggered if a traffic flow interruption has lasted too long or if a technical error has been detect A reset is required to deactivate this alarm. A rington sounds at regular intervals as a reminder.
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7.3.4 Intrusion alarm

Ē	This alarm is triggered if someone tries to cross the sys- tem in the opposite direction and the entrance door does not close within a reasonable time.
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7.3.5 Anti-pass-back alarm

This alarm is triggered if someone tries to cross the facil- ity in the opposite direction while the entrance door is closed or closes within a reasonable time.



NOTICE

To limit the number of false alarms, the system measures the time required for the entrance door to close and compares it to the reference time:

If the closure time is less than the reference time, an anti-pass-back alarm triggered.

If, on the other hand, the time is longer or equal to the reference time, an intrusion alarm triggered.

This reference time has present in the factory using very precise closing speed data, so it is important not to modify it!

7.3.6 Throw-in alarm (optional)

The alarm triggered when a person or object has passed the light curtain in the opposite direction at the exit of the tunnel.
The response of the system is the same as for a return alarm, but a separate alarm contact is activated.

8 Taking out of service and disposal

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

NOTICE

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 leaves 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 leaves 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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