

1 Description

1.1 Description of the full and/or semi-automatic door

The door has a full automatic, microprocessor-controlled drive system. A built in error analyser detects malfunctions as well as activated security sensors.

With a fully automatic door in AUTOMATIC operating mode, people are detected by the motion sensor which activates the turnstile to start rotating at walking speed. After the last person is detected, the turnstile will reduce speed shortly before reaching the start position and then come to a standstill.

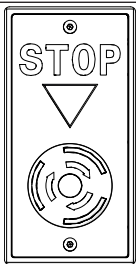
In the CONTINUOUS operating mode, the turnstile rotates permanently at slow speed. When people are detected by the motion detectors, the turnstile accelerates to walking speed. After the last person is detected the turnstile reduces speed shortly before the start position and switches back to slow rotation speed.

In MANUAL operating mode the turnstile can be rotated freely, with the exception of a subfloor system with a transmission drive.

With a semi-automatic door (without motion detectors), the system can be started by briefly pushing the turnstile. If the turnstile is no longer pushed, the turnstile reduces speed shortly before the start position and comes to a standstill.

Safety sensors prevent hazardous movement and slow or stop the turnstile in time. The operating status or system error is displayed on the optional IBS system display. This IBS system display can also be used to set basic door parameters.

1.2 Emergency stop button



When the emergency stop button is pushed the rotating turnstile is stopped immediately, the turnstile is released and can be rotated manually.

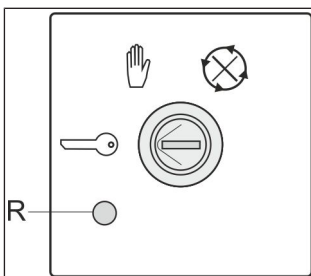
After resetting the emergency stop button, the preset operating mode will continue.



NOTICE

The turnstile cannot be turned manually on a subfloor door with a geared motor!

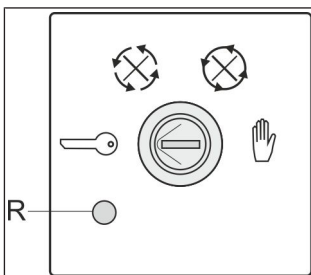
1.3 Semi-automatic key-operated switch



The operating modes LOCKED, MANUAL and AUTOMATIC can be set with the key-operated switch.

The RESET button (R) is also integrated in the key-operated switch and after pressing it the door control will be reinitialized.

1.4 Fully automatic key-operated switch



The operating modes LOCKED, AUTOMATIC, CONTINUOUS and MANUAL can be set with the key-operated switch.

The RESET button (R) is also integrated in the key-operated switch and after pressing it the door control will be reinitialized.

2 Operation

2 Operation

2.1 System operating modes



NOTICE

The operating modes for the fully and semi automatic doors can be selected using the key-operated switch.

2.1.1 LOCKED operating mode “semi and fully automatic doors”

	<p>The system is turned off.</p> <p>If the operating mode is switched to the LOCKED position while the turnstile is rotating, it will continue to rotate until it has reached the start position (locked position).</p> <p>In the start position the turnstile is electromagnetically locked by an integrated motor brake.</p>
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2.1.2 MANUAL operating mode “semi and fully automatic doors”

	<p>If the operating mode is switched to MANUAL, the turnstile will automatically rotate to the next start position, come to a standstill and can then be rotated manually.</p> <p>When the turnstile is switched to the LOCKED operating mode from any position, it will resume to the start position (locked position).</p> <p>When switched to AUTOMATIC it will resume to the next start position.</p>
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NOTICE

In the case of a subfloor system with a geared drive, the turnstile can not be rotated manually in MANUAL mode!

2.1.3 AUTOMATIC operating mode

	<p>AUTOMATIC operating mode “semi automatic doors”</p> <p>If the operating mode is switched to AUTOMATIC, the turnstile will automatically rotate to the next start position.</p> <p>The turnstile starts with a manually push and rotates at walking speed to the configured start position. Shortly before reaching the start position the turnstile will reduce speed and then come to a standstill.</p>
	<p>AUTOMATIC operating mode “fully automatic doors”</p> <p>If the operating mode is switched to AUTOMATIC, the turnstile will automatically rotate to the next start position.</p> <p>As soon as the detection field of a motion detector is entered, the turnstile starts to rotate at a pre-adjusted walking speed. If no further motion is detected, the turnstile rotates back to the start position and comes to a standstill.</p>

2.1.4 CONTINUOUS operating mode “fully automatic doors”

	<p>If switched to the CONTINUOUS operating mode, the turnstile will rotate permanently at slow speed. The turnstile accelerates to walking speed as soon as a person enters the detection field of the motion detectors. If no further motion is detected, the turnstile rotates back to the start position and then resumes slow rotation speed.</p>
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2.2 Normalizing and calibrating with the key-operated switch

2.2.1 Reset button

Reset / reboot / calibration of the door control

In order to eliminate malfunctions, there is a reset button integrated on the front of the key-operated switch. Press the reset button for less than 2 second and the door control will initialize.

Press for up to 5 seconds, the door control will normalize and then start the calibration process automatically. Once the calibration is complete, the door is operational again.

2.2.2 Initialization / Activation of the restart lock with the reset button

Once the power is turned off the initialization process automatically starts. For security reasons an electronic restart lock is activated. Pressing the reset button (less than 2 seconds) on the key-operated switch will also start the initialization program.

2.2.3 Normalization – Cancel the restart lock with the key-operated switch

Before the turnstile can start, the restart lock must be disabled by normalization. To do this, turn the key-operated switch from AUTOMATIC to LOCKED and back again. The turnstile will start at slow speed and “search” for the home position. The direction of rotation must not be hindered! The door is then ready for use.

2.2.4 Calibrate - Position the turnstile with the reset button

Calibration is required for the exact positioning of the turnstile. If the reset button on the key-operated switch is pushed for longer than five seconds, calibration will start regardless in of the operating mode. Like with initialization, the entire processor system will be reset. In doing so, the turnstile will rotate 1-2 times at crawl speed. After that the calibration process is complete the door is ready for use.

3 Malfunctions

3.1 Notice power shutdown



NOTICE

A trouble free operating door is only guaranteed with a continuous supply of power. Therefore, never disconnect the power supply!

If the main power supply is disconnected, the door control will have to be normalized first after switching the power back on. To do so, turn the key-operated switch from AUTOMATIC to LOCKED and back again.

Now the door is operational again.

3.2 Conduct during malfunctions



IMPORTANT

If malfunctions that endanger the safety of individuals occur, the system must be turned off. It may not be turned back on until the problem has been resolved by a professional and the danger no longer exists.

3.3 Possible troubleshooting



NOTICE

Some malfunctions can be rectified by the operator themselves (see troubleshooting tips). If the tips do not resolve the problem, please contact your local service centre.

Before calling, please note the information shown on the optional IBS system display. This information provides the technician with important information for troubleshooting.

3.4 Tips on troubleshooting

To eliminate malfunctions, it is necessary to disable the electronic restart lock on the door control through normalization. For this, turn the key-operated switch from LOCKED to AUTOMATIC operating mode and back again. The turnstile will start at slow speed and “search” for the home position. Then the door is operational again.

Malfunctions and their causes, as well as possible solutions which can be performed by the operator, are listed below. If the solutions listed are not successful, the operator must disconnect the main power supply and call the service centre.

Malfunctions	Causes	Solutions
Turnstile is blocked, can not be electrically unlocked	<ul style="list-style-type: none">– Lock does not open– Lock is jammed in the lock latch– Lock is defective	<ul style="list-style-type: none">– Switch to MANUAL operating mode and shake turnstile briefly

<p>Door does not function or turnstile rotates irregularly</p>	<ul style="list-style-type: none"> – Press emergency stop button – Cable break – Short circuit – No power supply or restart lock is activated – Over current pressure control activated. Excessive friction on the turnstile wing sealing brushes between the floor and the drum wall – Obstacle in the rotation area – Geared motor damage – Door control defective – Electric safety strips activated – Safety sensors activated by a person or object – Foreign object jammed – Safety sensors surface is dirty – Pivot wing (if available) is not engaged properly in the locking device – Night shield is not completely open – Night shield limit switch is defective – Control is defective 	<ul style="list-style-type: none"> – Reset emergency stop button – Check power supply, call electrician if necessary! – Eliminate floor inequalities, if necessary remove the dirt accumulated under the mat – Remove obstacles – Check electric safety strips for damages, clean surface with soapy water – Remove foreign objects
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