

1 Description

1.1 Description of the door

The door with single passage function consists of three or four turnstile wings.

The revolving door has a microprocessor-controlled drive system, which can be used in several operating modes. A key-operated switch is used to switch operating modes. An integrated error analyzer detects malfunctions.

1.2 Optical displays of the door

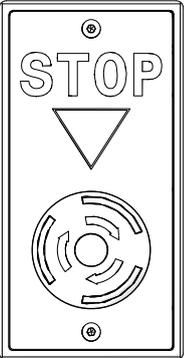
The LED displays are generally installed 1x on the inside and 1x on the outside to the right of the drum wall profiles at a height of 1600 mm.

The LED displays can also be installed in the vertical column.

The LED displays indicate the flow status for each direction for the corresponding door:

LED red:	The door system is blocked for passage in this direction.
LED green:	The door system is open for passage in this direction.

1.3 Emergency stop button

	<p>When the emergency stop button is pushed, the rotation of the turnstile is stopped immediately, the lock is closed, the turnstile is released and can be rotated manually to the next locked position.</p> <p>After resetting the emergency stop button, the door control must be normalized before the preset operating mode will run again.</p>
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NOTICE

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

1.4 Key-operated switch

	<p>The operating modes LOCKED - MANUAL - AUTOMATIC can be selected on the key-operated switch.</p> <p>A reset button (R) is also integrated in the key-operated switch, which when pressed reinitializes the door.</p>
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2 Operation

2 Operation

2.1 Operating modes of the door K31 / K41-ST

2.1.1 Operating switch in the “LOCKED” position

The turnstile is in the starting position. All of the impulse transmitters are out of order and the turnstile is locked electrically.

Both optical displays are red (turnstile is locked).

Lock mechanism status indicator VRM

The lock status of the turnstile is permanently monitored and is reported to the system via a dry contact for on-site application.

2.1.2 Operating switch in the “MANUAL” position

The turnstile is unlocked and can be rotated manually in the direction of rotation. All controls and sensors on the door are out of order.

Both optical displays are green (turnstile is unlocked).

2.1.3 Operating switch in the “AUTOMATIC” position

The door wings rotate **CLOCKWISE** (only K31-ST) or **COUNTER CLOCKWISE**, depending on the direction of flow.

In the idle position, the turnstile is locked and secured by an electromagnetic brake.

Via the code card reader or the release button, the door control receives an opening impulse.

An authorized person can pass through the door for an adjustable amount of time.

Once the adjusted amount of time has expired, the turnstile will be locked again.

2.2 Initialization – Activate the restart lock with the reset button (R)

Initialization starts automatically after the power has been restored. An electronic restart lock is activated for security reasons.

A reset button (R) has been integrated on the front of the key-operated switch in order to eliminate malfunctions. Pressing (less than 2 sec.) can also start the initialization process.

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.

2.4 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 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

3 Malfunctions

Door does not function or turnstile rotates irregularly	<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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