TORMAX
AUTOMATIC

T-1661 e 31.8.15
Translation of the original
instructions for use

Instructions for Use

For Automatic Swing Doors with Drive

TORMAX 1102 Swing Door Drive

TORMAX 1201 Swing Door Drive

Please follow the safety instructions in chapter 2!

Contents

First edition: 12.14, update 8.15

Printed on environmentally friendly paper bleached without the use of chlorine.

Landert Motoren AG and Landert GmbH are certified to ISO 9001.

1 General Information

1.1 Target Groups

- Operator of the automatic swing door. The operator is the person responsible for the operation and maintenance of the system.
- Persons instructed by the operator to carry out certain duties, for example the servicing and maintenance of the automatic swing door.

1.2 Storage and Forwarding of the Manual

- Store the instructions for use in the vicinity of the automatic door system.
- If the manual has become illegible due to constant usage, reorder the instructions.
  For download and print out see also: www.tormax.com/en/7/architects.html
- When the door system is transferred or resaled to a third party, pass the following documents to the new owner:

– This instructions for use
– Documentation concerning modification and repair work
– Proof of the regular examinations → System test book T-879

1.3 Area of Application

Warning

Inappropriate Use

Risk of injury to persons

- Use this door drive only with swing doors.

Product name, door system: Automatic swing door (single or double-leaved)

Product name, door drive: **TORMAX 1102 Swing Door Drive**
TORMAX 1201 Swing Door Drive

Serial number: .....

The identification plate with the serial number is placed on the drive itself under the casing.

★★★★★ TORMAX AUTOMATIC	Landert Motoren AG Unterweg 14 CH-8180 Bülach	TÜV SÜD	CE
Model:			
Un:		IP	T_A
Pmax.:	Imax.:	Pedestrian Door Operator	Serial No.:
Pmn.:	Imin.:	Manufactured:	
Weight of door leaves:			

1.4 Explanation of the Symbols

Warning (signal word)

Source of hazard (designates a possibly hazardous situation)

Possible consequences of non-observance

- Measures for averting danger.

Text which is highlighted in grey MUST be observed to ensure that the system operates perfectly. Failure to observe these sections can cause damage to equipment.

Functions marked with this symbol are the factory setting. However, they can be reprogrammed by a specialist.

◆ Optional components which are not present in all systems.

1.5 Technical Data

Drive type	Electromechanical swing door drive with DC motor
Control system	Microprocessor 32 Bit
Mains connection	1 x 230 / 1 x 115 V AC, 50 – 60 Hz, 10 A
Power consumption	3 … 200 W
Sensor supply	24 V DC 1,5 A
Protective class, drive	IP20
Ambient temperature	–20 °C to +50 °C
Fuse	5 AT
Drive weight	
TORMAX 1102	11,2 kg
TORMAX 1201	11,8 kg
Noise emission level	< 70 db (A)

2 Safety

2.1 Responsibilities

For instructing the operator:	A skilled person from a TORMAX sales partner
For operating the system:	The operator or a person instructed by the operator
For maintenance and function control:	The operator or a person instructed by the operator
For annual testing and approval:	A skilled person authorised by the manufacturer

Skilled persons are persons who have adequate knowledge in the field of power-operated doors as a result of their specialist training and experience and who are so familiar with the relevant health and safety regulations, guide-lines and generally recognised codes of practice that they are able to assess the condition of power-operated doors with regard to the safety of their operation.

Maintenance of electrical parts must be carried out by a trained electrician.

2.2 Use for the Purpose Intended

The automatic swing door is intended exclusively for use in dry premises in areas used as a pedestrian thoroughfare and only within the specified technical data. Special techniques can also be used to attach the drive unit to the building envelope. Technical modifications of the system must only be carried out by skilled person. Any other use or extended use is considered to be improper and may result in danger for body and life.

2.3 Pre-Conditions for the Operation of the System

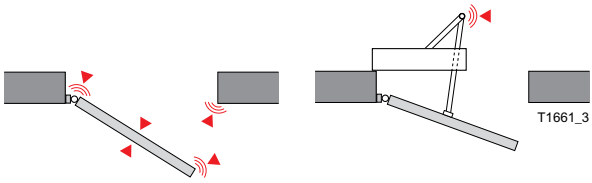
The door system was designed, installed and checked for functionality and safety by skilled persons prior to hand-over to the operator. The company responsible for the system's installation instructed the operator on the system's use and maintenance as well dangers associated with the system operation. The operator has confirmed this by his signature in the system test book T-879.

The provisions imposed by law, health and safety and occupational health regulations for the avoidance of accidents and the protection of the environment which are generally applicable in the country in which the system is operated supplement the Instructions for Use.

- Read the Instructions for Use carefully before commissioning the automatic swing door.
- Only use the system when it is in perfect working order. The operating conditions, inspection and maintenance intervals stipulated by the manufacturer must be observed (section 6).
- Safety facilities (e.g. sensor technology, protecting covers) must not be removed or disabled.
- Arrange to have any faults rectified immediately by a skilled person.

2.4 Hazards and Risks

Depending on the system design and equipment, there is a residual risk of crushing, shearing and collision with limited force in the movement area of the door leaf.



Warning
Danger through moving parts:

– in the area of all closing edges (especially hinge)

– in the region of the linkage lever

– when objects such as, for example, display shelves are erected in the direct proximity of the moving part of the door leaf.

Risk of injury

- Do not allow children to play in the direct proximity of the automatic door.
- Children may not operate the existing operating units.

Warning
Hazards can arise due to deliberate damage, incorrect installation, defective sensors or sensors which are longer properly adjusted, sharp edges, incorrectly mounted and defective casing or missing covers.

Danger for body and life, danger of injury

- Have system repaired by a qualified person

2.5 Checks

The regular checks and examinations set out in Chapter 6 must be carried out as instructed by the manufacturer. The manufacturer recommends that a maintenance contract be concluded in order to operate the system safely and to maintain its value for as long as possible.

2.6 Decommissioning the System in the Event of a Fault

If there is a fault the automatic swing door may only be taken out of service by a skilled person, the operator or a person who is instructed to do so by the operator. This must be done on all occasions on which the safety of persons could be compromised.

- Disconnect the system from the power supply.
- Take the system out of service by a skilled person if operated with battery unit ◆.
- Select operating mode “P” if the system continues to operate using the internal emergency power supply (see section 3.3 for operating modes).
- Open the door manually and secure in the open position if it is installed in an escape route.
- Fire doors must never be secured in the open position even in emergencies.

See section 7 for rectification of faults.

2.7 Disposal

This system must be properly dismantled at the end of its working life. Its disposal must comply with national regulations. We recommend that you contact a skilled person disposal company.

Warning

Aggressive acids

Risk of injury if you dismantle the battery module.

- Dispose of batteries properly.

Warning

Flying around parts

The tensioned spring represents a hazard when dismantling the drive.

- Before opening the casing, release the tension on the spring up to the stop.

Warning

Broken glass

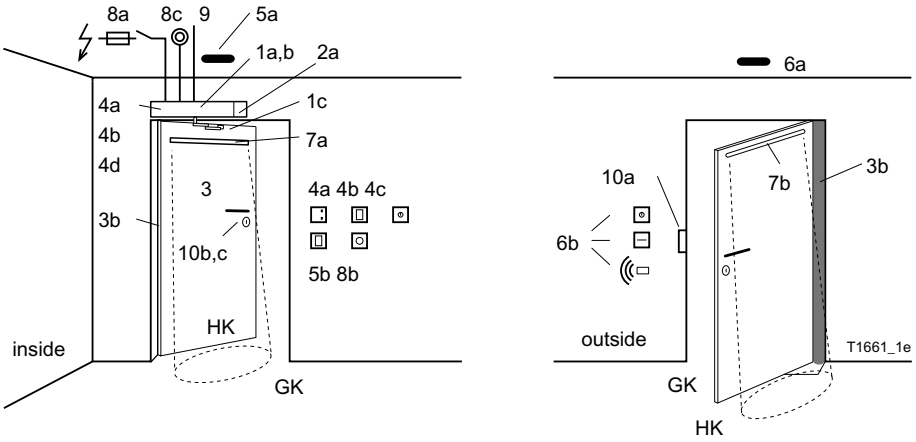
Risk of injury when dismantling the door leaves.

- Take care when transporting the door leaves.

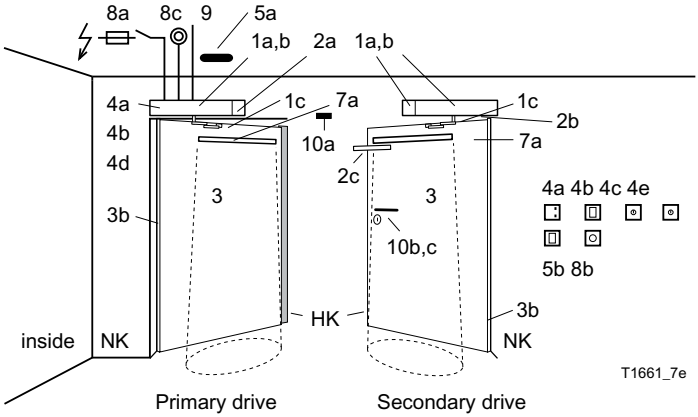
3 Product Description

3.1 System Overview

Single Leaf Systems



Double-leaved Systems

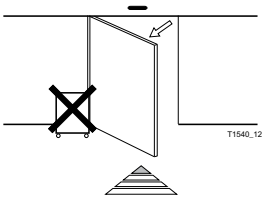


1	**Drive**	a) Motor and spring unit b) MCU42 control system with monitoring system, power limitation and permanent diagnosis. ☐ Controlled closing function of the door in power-off condition ☐ Controlled opening function in power-off condition c) Linkage / sliding lever	
2	**Drive accessories ◆**	a) ☐ Emergency power supply via the battery unit b) ☐ Mechanical door coordinator for double-leaf doors c) ☐ Driver flap to the mechanical door coordinator ☐ …	
3	**Door leaves**	a) Swing leaf with main closing edge (HK) and secondary closing edge (NK) b) ☐ Finger protection to enhance the safety of the secondary closing edge.	
4	**Operating controls**	a) ☐ User interface with 5 operating modes and fault display b) ☐ Operating mode switch with 3 positions. c) ☐ Lock for the user interface d) ☐ Remote control of operating modes e) ☐ Switch for 1-leaf operation	
5	**Internal activators**	a) With automatic activation ☐ Radar with/without direction recognition ☐ IR motion detector ☐ Contact mat ☐ …	b) With manual activation ☐ Push button ☐ Contact-free button ☐ Button for passage with bed ☐ …
6	**External activators**	a) With automatic activation ☐ Radar with/without direction recognition ☐ IR motion detector ☐ Contact mat ☐ … ☐ …	b) With manual activation ☐ Key switch ☐ Card reader ☐ Remote control ☐ Button for passage with bed ☐ …
7	**Safety sensors**	a) ☐ Presence sensor safeguarding the swing area when closing b) ☐ Presence sensor safeguarding the swing area when opening ☐ …	
8	**Emergency systems**	a) ☐ Power switch / fuse b) ☐ Emergency-off switch c) ☐ Fire alarm system	
9	**Output message**	☐ Bell / gong ☐ Door status	
10	**Lock ◆**	a) ☐ Electrical door opener b) ☐ Door handle c) ☐ Mechanical door lock	

☐ Depending on the system's equipment

3.2 System Function

The operator of the door system is responsible for ensuring that the automatic swing door is freely accessible at all times. The operator must particularly ensure that the swing area of the door leaves is not obstructed by any objects.



Automatic Door Operation with Sensors

When operating automatically (operating mode AUTOMATIC) the door is automatically opened from both sides by sensors when a person approaches. A key switch ◆ or card reader ◆ normally allows access from outside when the door is in operating mode EXIT or OFF. The door unlocks ◆, opens and closes again as soon as no further sensors are activated after a hold-open time which is set separately.

Double-leaved doors open at the same time or, in the case of overlapping door leaves, in sequence. Closing must be in the correct closing sequence and, for reasons of safety, one after the other.

Door Leaf Protection

The safety devices are selected and installed by the installation company in line with general and country-specific standards, guide-lines and requirements.

System with Full-Energy Mode

The door leaves are equipped with safety sensors on the leaves. The safety sensors prevent a person in the operating radius of the leaf from being hit by the leaf. If one of the safety sensors should fail, the system switches to safety mode. The door can still be opened but only manually. In the case of low risk systems, the system switches to emergency mode. The door leaf still moves but only slowly and in Low-Energy mode. If the safety device fails in the closing direction, the door remains open for 30 seconds.

Systems with Low-Energy Mode

Hazards due to impact and crushing are minimised by restrictions on speed and force. Thus the system provides a high degree of safety.

The system offers maximum ease of use and safety if it is equipped with additional safety sensors.

Semi-automatic Operation with “Push-and-Go”

Instead of having sensors the door can be manually pushed open. After being detected by the control system, the door opens automatically and closes again.

Manual operation with Power Assist

In operating mode P “Manual operation” or depending on the exact setting in AUTOMAT, the door can be easily opened manually with “Power Assist”. After opening, the door remains in the hold open position before it closes automatically using little force.

Depending on the configuration, “Power Assist” can be activated in advance for a limited period using a button, door trap sensor or a motion detector. In this case the door can be easily opened with very little effort.

Traffic Control

Movement through the door can be allowed in only one direction if desired (operating mode EXIT) or completely blocked (operating mode OFF).

Double-leaved systems can also be operated as single leaf doors by means of the single leaf operation switch. In this case both doors can only be opened by means of the key switch or the “bed movement” switch.

Automatic System Monitoring

The control system monitors the safety sensors by a cycle of active tests. The control system also conducts continuous internal system tests. If a safety-related component should fail, the system automatically switches into a safe condition. At the same time the fault number is displayed on the user interface. The operating mode currently displayed also flashes. You can find further information on this subject in section 5 “Procedure in the Event of a Fault”.

Economy power mode

Economy power mode is activated as standard. This mode consumes less power in the non-operative state.

The illumination on the user interface and most sensors are automatically switched off when not in use.

Electric Lock ◆

The system can be locked in the closed position by means of an electric lock ◆.

Operation in the Event of a Power Failure

Depending on the equipment installed, the following functions are possible:

– Controlled closing using the integral spring. The door can be opened manually by means of the door handle (unlocking).
  → The door then closes again in a controlled manner using the integral spring.
  The closing sequence is maintained in double-leaved doors by the use of a mechanical door coordinator.
– Controlled opening using the integral spring. The door remains open.
– Continued operation for a certain period in the current operating mode by means of a battery unit ◆.
– Unlocking and opening of the door from outside by means of a key switch and the battery unit ◆.

3.3 Operating Modes

The automatic door system can be operated with the TORMAX user interface ◆ (5 operating modes and status display) or with an operating mode switch ◆ (3 operating modes).

Operating Mode OFF

The internal and external sensors are disregarded. The door is mechanically held in the closed position and locked using an electric lock ◆. Access is only possible using the key switch or if the door is manually unlocked using a key or the door handle is used to open the door manually.

The door can still be used for 5 seconds after selecting operating mode OFF. The door then locks at the end of this period as soon as it is closed. The transition is signalled on the user interface by the flashing display of operating mode OFF.

Operating Mode AUTOMATIC

The operating mode AUTOMATIC is normally used during the day. The door opens automatically through the inside and outside sensors. The door can behave differently depending on the settings programmed during commissioning:

“Push-and-Go”

If the door is manually pushed in the opening direction, it reacts as if to a command to open: it opens automatically, waits for the hold-open time and then closes.

Systems with an Electric Door Lock ◆

The lock unlocks on every valid opening impulse. The door lock must be manually unlocked with the door handle before it is possible to open the door with the “Push- and-Go” system. In this operating mode the door lock can also be permanently unlocked depending on the setting programmed at the time of commissioning.

Operating Mode EXIT

Operating mode EXIT is normally used for the period before the shop or office closes. The door will only open automatically when activated by the internal sensor. When the door opens the external sensor is also monitored for safety reasons. The open position is determined by the preceding selection of the operating mode AUTOMATIC. Additionally the door can be locked automatically by the door lock ◆. The door lock can be permanently unlocked in this operating mode in case of need.

Operating Mode OPEN

The door opens and remains open. The open position is determined by the preceding selection of the operating mode AUTOMATIC. The door opens again on receiving the next open impulse or when changing the operating mode to OFF and back again to OPEN.

P Operating Mode Manual Operation

The door leaf can be freely moved. This operating mode can be used for cleaning the door leaf or for temporarily shutting down the door. The system is reset after leaving this operating mode. On each opening command In this operating mode the door lock is unlocked during 10 s.

After a single leaf of a double leaved door has been opened manually, the closing sequence is maintained mechanically by means of a mechanical door coordinator. If there is no mechanical door coordinator, the door leaves can be opened manually independently of each other without regard to the overlap on the door leaves.

Single Leaf Operation Switch

– Secondary leaf on

  If an opening command is given or in the event of Push & Go, both leaves always open.

– Secondary leaf off

If an opening command is given via the internal or external sensors or by Push & Go, only the primary leaf. If an opening command is given by the “passage for beds” button or the key switch, both doors are opened.

4 Operation

The automatic swing door may only be operated by a skilled person, the operator or a person instructed by the operator.

4.1 Commissioning

Before switching on the mains power supply:

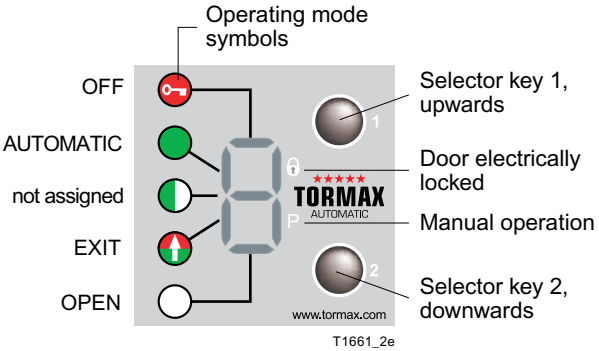
- Unlock the optional mechanical door lock.
- Check that the movement area of the door leaves is free from obstructions such as racks, plant containers, umbrella stands ect.
- Switch on the mains power supply and select operating mode AUTOMATIC, for example.

  → The door is now ready for operation.

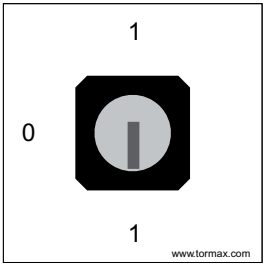
4.2 Operation with the TORMAX User Interface ◆

TORMAX User Interface

The display is switched on by pressing the selector button briefly.



Lock ◆ for User Interface



Unlocking of Operating Unit

The operating unit can be protected against unauthorized access by way of the lock ◆ or the code lock.

- Unlock lock = position 0

or

- Enter code … / … / … using operating unit. Standard code = 3/3/3. The code can be determined by the engineer.
  Example with code 3/3/3. Press upper selection button 3 times, then press the lower selection button 3 times and the upper selection button within 15 s . In case of entering wrong code: Wait at least 5 s . After successfully entering the code, the operating unit will be released within 60 s. The type of operation can be adjusted. Access will be automatically blocked again for 60 s after the button has been pressed for the last time.

Selection of Operating Modes

- Press selector keys 1 or 2 briefly. The corresponding operating mode symbol is illuminated.

Fault Display

E.g. H31 or E42 → See section 7 for the meaning of the display.

- Reset by pressing the selector key 2 briefly.

Resetting the System

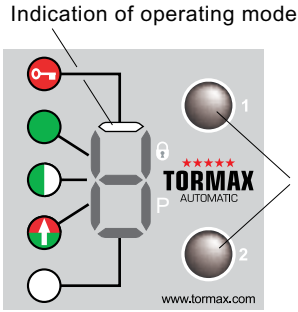
- Press the selector key 2 for at least 5 seconds.

The software is restarted. On double-leaved systems the software is restarted automatically on both drives.

4.3 Setting Customer Parameters with the TORMAX User Interface

The company undertaking the installation reserves the right to restrict access to all or some of the customer parameter settings. If the user interface is in an area accessible to the public it must be protected against third party access by a “code lock” or a “lock for the user interface”.

Access level “U” for customer parameters



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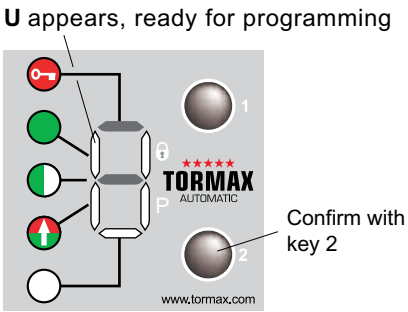

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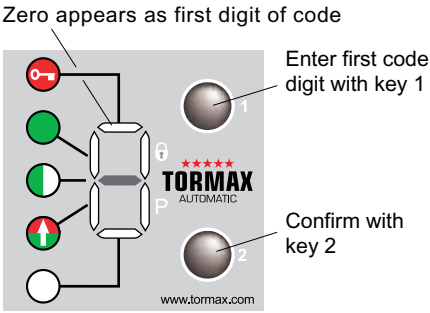
Enter the three digit code for parameters



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- Similarly, select and confirm the second and the third characters of the code.

If “C” appears, access is blocked. Parameters cannot be re-set in this case.

Parameters for displays

012	Drive type (1 = 1102, 2 = 1201)
042	Firmware version
043	Number of cycles
044	Number of operating hours

Parameters for settings

10 0…E	Hold open time for activator inside / outside	0 / 1 / 2 / 3 / 4 / 5 / 6 / 8 / 10 / 12.5 / 15 / 17.5 / 20 / 40 / 60 s
11 0…E	Hold-open time button e.g. for beds	
12 0…E	Hold-open time for key switch	
13 0…9	Delay for operating mode OFF (selection via user interface)	1 / 3 / 5 / 7.5 / 10 / 15 / 20 / 30 / 45 / 60 s
14 0…9	Bell active time	0 / 0.5 / 1 / 2 / 3 / 4 / 5 / 6 / 8 / 10 s
20 0…6	Opening speed	10 … 100 %
21 0…6	Closing speed	
301…3/6	Power limit when opening	Maximum depends on the drive type
311…3/6	Power limit when closing	
321…3/6	Power limit when closing before the door is closed	
38 0…6	Starting angle for Push & Go / Power Assist	1 / 2 / 3 / 5 / 8 / 12 / 16 degrees
39 0…5	Starting angle for Push & Close	Maximum / 8 / 10 / 12 / 14 / 16 degrees
80 0…2	Bell trigger	Activator outside / activator inside / key switch
81 0…4	Button press time (detection delay for activator)	0/1/2/3/5
91 0…4	Code lock for user interface	Switched off / code 111/... 222/… 333/…123

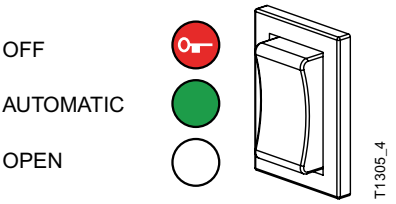
Command

040	Software reset

4.4 Operation with an Operating Mode Switch ◆

Selection of Operating Modes

The switch position defines the operating mode.



Resetting the System

– Change the operating mode in the event of a fault

or

– Cut off power supply to the system for at least 5 seconds.

4.5 Operation on Power Failure

Opening a Door using a Key Switch ◆ with a Battery Unit ◆

- Turn the key switch to the “on” position and hold in place for at least 5 seconds, then turn the key to the original position.
  → The battery is activated using the “wake up” function.

The key switch must not remain permanently in the “on” opposition.

→ The door is unlocked and opened.
→ The battery switches off again after the time programmed 🖫 by the installation engineer or when the battery is fully discharged.

If required, the operating mode can be changed on the user interface during the wake-up.

4.6 Resetting the Panic Fitting ◆

- Select operating mode OFF (operating mode switch ◆, user interface ◆) or disconnect the drive from mains (installation switch, mains plug).
- Push the door leaf back into the initial position.
- Choose operating mode AUTOMATIC or switch on drive respectively.

5 Procedure in the Event of a Fault

Faults are evident from abnormal door behaviour and/or as a fault display on the user interface. Fault displays on the user interface take the form of a flashing “E” or “H” followed by two figures.

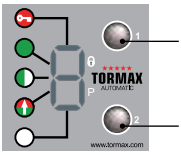
H = notification > the system can continue to be used.

E = fault > the system is stationary.

Some faults or notifications can be rectified by restarting the door drive with a software reset and/or briefly (> 10 s) disconnecting the system from the power supply.

Fault Display and Reset Using the TORMAX User Interface

See the table in section 7.1 for an overview of the fault displays.



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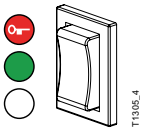
Browse through the fault display using selector key 1 upwards (to display several faults).

1. Reset the fault display, press selector key 2 (downwards) briefly.
2. Software reset: press the key for 5 seconds.

Reset of the Fault with the Operating Mode Switch


T1305_4

Software reset in the event of a fault: change the operating mode.

Reset of the Fault by Disconnecting the Power Supply

If the system does not have a battery unit, disconnect from the power supply for about 10 seconds.

If this does not reset the fault or if it re-occurs after a short time, you must arrange for the fault to be rectified by a skilled person from your TORMAX dealer. In this case note the fault number and inform the dealer. See the last page or the service tag on the system for the dealer’s address.

6 Maintenance

The system was tested and approved by a skilled person before initial commissioning. The manufacturer recommends that you conclude a service contract in order to maintain the value of your system for as long as possible as well as to ensure the system operates reliably and safely for a long time.

Only genuine TORMAX spare part should be used. The manufacturer accepts no liability if you fail to observe this requirement. Original spare parts and original accessories guarantee the safety of use in accordance with norm EN 16005.

The following maintenance work must be carried out:

6.1 Cleaning

Warning

Closing doors can crush – danger!

Trapped limbs can lead to serious injury.

- The system must only be cleaned in operating mode OFF, OPEN or Manual Operation.
- Clean casing parts, the user interface and door leaves with a damp cloth and a commercial cleaner.

6.2 Functional Checks

The operator must check the function and safety devices of the automatic swing door **at least every three months**. This will ensure that faults or hazardous changes in the system are detected at an early stage. See section 7.2 “Check-list for Functional Checks” for items to be checked.

You should arrange for any defects detected during the routine checks to be rectified immediately by a TORMAX dealer (see the last page of this Manual for the address).

Warning

Potential switching malfunction in the automatic swing door.

Potential hazards – injury caused by impact or crushing.

6.3 Maintenance and Testing

Maintenance and testing should only be carried out by a trained skilled person following the manufacturer’s instructions.

Maintenance Interval

The maintenance interval depends on the frequency of use but the system must be maintained **at least once per year**.

Scope of the Maintenance Work

The content of the maintenance work is specified by the manufacturer in an inspection list.

System Test Book

The test findings are recorded after the test in the system test book. The operator must keep it in a safe place.

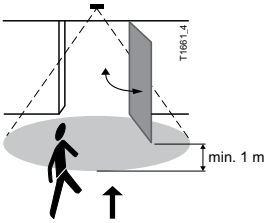
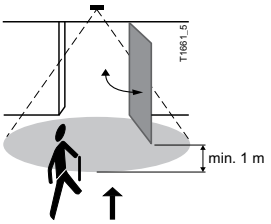
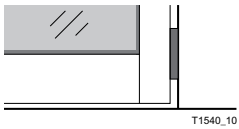
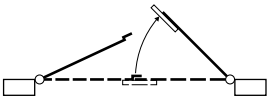
7 Appendix

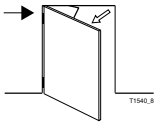
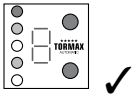
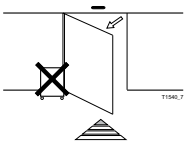
7.1 Fault Table

System Behaviour	No.	Cause	Remedy/Rectification
Note in the event of elevated motor load.	H17 H74	Drive is heavily loaded in the open position by a soft stop or wind load.	Remove the obstruction in the region of the open stop. Avoid wind load.
The door stops when opening.	H31	Electronic obstacle recognition caused by persons, wind pressure and ventilation when opening.	Remove the obstruction. Avoid drafts.
Door reverses when closing.	H32	Electronic obstacle recognition caused by persons, wind pressure and ventilation when closing.	Remove the obstruction. Avoid drafts.
The door stops repeatedly when opening. The door stands still.	H33	Electronic obstacle recognition on opening in the same position by stationary obstacle.	Remove the obstruction.
The door stops repeatedly when closing. The door stands still.	H34	Electronic obstacle recognition on closing in the same position by stationary obstacle.	Remove the obstruction.
Search run notified.	H62 H67	Search run of the door after a reset or after power recovery.	Allow the search run to travel its full course.
Door remains open or is in operation again.	H71	System is in battery operation.	Pause/ensure mains power supply is connected.
Door remains closed.	– E11 E12	Operating mode for example OFF, EXIT or P. The door is prevented from moving by the lock. Motor lock will not unlock will not lock	E.g. select operating mode AUTOMATIC. Unlock the lock. Push the door closed briefly. Prevent wind load on the door leaf. Remove obstruction in the closed position area.
The door remains open.	–	Operating mode OPEN or the door is obstructed in the open position.	E.g. select operating mode AUTOMATIC. Remove the obstruction.
The door remains closed. The door moves slowly.	E31	The safety facility in the opening direction is permanently active (>1 minute) or defective.	Remove objects from within the range of the sensor(s).
The door remains open or closed. The door moves slowly.	E32	The safety facility in the closing direction is permanently active (>1 minute) or defective.	Remove objects from within the range of the sensor(s).
The door does not open or does not close.	E33	The safety facility for the swing area is permanently active (>1 minute) or defective.	Remove objects from within the range of the sensor(s).
The door does not open or does not close.	E34	The stop safety facility is permanently active (>1 minute) or defective.	Remove objects from within the range of the sensor(s).
The door opens slowly.	E35 E37	The safety facility in the opening direction is permanently active (> 1 minute) or defective.	Remove objects from the sensor area.
The door closes slowly	E36 E38	The safety facility in the closing direction is permanently active (> 1 minute) or defective.	Remove objects from the sensor area.
The door remains open.	E41 E42 E43	Activator inside is active > 1 min. Activator outside is active > 1 min. Key switch is active > 1 min.	Get sensor adjusted by a skilled person. Reset the key switch.

System Behaviour	No.	Cause	Remedy/Rectification
The door remains open	E45	Emergency opening is active for > 1 minute	Reset the command from the higher ranking system.
The door remains closed	E46	Emergency closing is active for > 1 minute	Reset the command from the higher ranking system.
The door remains closed	E47	Blocking switch active for > 1 minute	Reset the command from the higher ranking system.
The door remains open	E48	”Beds“ sensor active for > 1 minute.	Reset the switch for “passage with beds”.
The door stands still	E51	Anomaly in the travel distance. Solid obstruction in the movement area.	Remove firm obstacle in the travelling range of the door. Perform a software-reset.
The door stands still	E61 E62 E63	Power supply is overloaded or voltage too low.	Get the power supply and connections checked by a skilled person.
The door stands still	E64	Drive/control system is overheated.	Wait for the automatic reset after the door/control system has cooled. Protect from direct sunlight.
The door stands still	E66	Motor or output stage defective.	Wedge the door open in the open position or disengage the linkage. Switch off the power supply. Arrange for the system to be repaired by a specialist.
The secondary door leaf remains motionless.	E99	Fault on the secondary drive.	Arrange for the system to be checked by a specialist.
The door stands still.	E.. E0.. E2..	Control system shut down for safety reasons.	Perform a software-reset. Arrange for the system to be repaired by a specialist.

7.2 Check-List for Functional Checks

Item To Be Checked	Procedure	Result
Sensors		
	• Walk through the door directly from the front and from different directions at normal speed, starting both from the inside and outside. Activation (sensor field) at least 1 m in front of the open main closing edge.	The door opens at the right time and with sufficient speed so that passage through the door Is not hindered.
Safety Sensors		
	• Walk through the door directly from the front and from different directions at a slow speed like an infirm person, starting both from the inside and outside. Activation (sensor field) at least 1 m in front of the open main closing edge.	The door opens and remains open until you are completely through the door.
Swing Leaf, Door Frame		
	• Check the glass door fillings, door edges and rubber profiles for damage.	The door fillings have no sharp edges and splintered glass. The side parts and the door seals are in place and undamaged.
Panic Fitting ◆		
	• Isolate the drive from the power supply (main system switch, mains plug) or select operating mode OFF. Then push the door in the direction opposite to the opening direction until the panic fitting releases the door leaf. Now push the door leaf back to the initial position.	The panic fitting can be released and returned to the initial position.
Mechanical Door Coordinator ◆		
	• Place the system in operating mode “P“ and open the secondary door leaf halfway. Then allow the secondary door leaf to close.	The primary door leaf is also pressed open by the driver flap. This leaf then remains open and motionless at about 25 degrees of the door opening until the secondary door leaf which is closing is practically closed.

Item To Be Checked	Procedure	Result
Drive, Lever and Hinges		
	• Check the noises made while the door moves.	No unusual and noticeable noise can be heard from the drive, the lever or in the region of the hinges. No significant wear is visible.
Operating Components, Lettering and Marking		
	• Check the function and marking of operating controls. Check all lettering and marking for their condition.	The operating controls are functioning correctly; the markings are visible and legible.
System Vicinity		
	• Check access to the door and the movement area of the door leaves.	Access to the door is free from objects and items likely to cause the user to trip. There are no objects such as shelves, plant containers and umbrella stands within a radius of 50 cm of the movement area.
Mains Power Cable		
	• Check if the mains power cable is damaged. • Check if the mains power cable is secured against entrapping in moving parts of the drive, door or system.	• If damaged, get the mains power cable replaced by a skilled person. • If the mains power cable is not properly secured, get it secured by a skilled person.

CE

EG Declaration of Conformity

The manufacturer declares

Manufacturer's address: _____

_____

_____

that the product (machine)

Type designation: _____

Serial number: _____

is in conformity with the guideline EG-RL 2006/42/EG

is in conformity with regulations of the guidelines:

- 2006/95/EG (low tension)
- 2004/108/EG (electro-magnetic-compatibility)

and the following harmonised standards have been adhered to:

- EN 16005

Base document: Declaration of incorporation by TORMAX | Landert Motoren AG

Person responsible for documents

Name/address: _____

_____

_____

Place, date: _____

Signatory

(CE authorized person): _____

Signature: _____

TORMAX
AUTOMATIC

the passion to drive doors

TORMAX Sliding Door Drives

TORMAX Swing Door Drives

TORMAX Folding Door Drives

TORMAX Revolving Door Drives

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