



## **Ditec DAS107PLUS** User Manual

IP2270EN

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# 1. General precautions for safe use



- Failure to observe the information in the User Manual may lead to personal injury or damage to the equipment. These instructions must be kept and forwarded to all possible future users of the system.
- The sliding door must only be used for the purpose for which it was designed. Any other use should be considered improper and therefore dangerous. The manufacturer cannot be held responsible for any damage caused by improper, incorrect or unreasonable use.
- Do not use the automation if it needs repairing or adjusting. Disconnect the power supply when carrying out cleaning or maintenance tasks.
- This product may be used by children over the age of 8 and by people with reduced physical, sensorial or mental abilities, or lack of experience or knowledge, as long as they are properly supervised or have been instructed in the safe use of the device and the relative hazards.
- Cleaning and user maintenance shall not be made by children without supervision.
- Do not allow children to play or stay near the sliding door. Keep remote controls and/or any other control devices out of the reach of children, to prevent the sliding door being accidentally activated.

Entrematic produces technologically advanced automatic doors, using carefully tested materials and components to ensure a high quality product. Like any other technical product, an automatic door needs regular maintenance and servicing in compliance with the relevant safety standards.

## 2. Responsibility for the product

In compliance with the local and national directives, the following aspects are the responsibility of the system owner or user.

To ensure the system works efficiently and correctly, the manufacturer's indications must be complied with and only qualified personnel must perform routine maintenance on the sliding door.

In particular, regular checks are recommended in order to verify that the safety devices are operating correctly.

In the event of a fault or a malfunction of the sliding door, disconnect the power supply and contact qualified personnel. Do not attempt to repair or intervene directly.

Failure to comply with the above may cause a dangerous situation.

It is important to keep a record of all inspection, maintenance and assistance interventions.

## 3. Environmental requisites

Entrematic Group products contain electronic components and may be equipped with batteries containing materials that are harmful for the environment.

Disconnect the power supply before removing the electronic components and battery. Local regulations concerning the disposal of worn products and packaging must be respected. Correct product disposal helps prevent potential harmful consequences for the environment and human health.



To correctly dispose of electrical and electronic equipment, batteries and accumulators, owners/users must take the product to special "recycling centres" set up by the municipal authorities.

## 4. Operating mode

The automatic system for Entrematic sliding doors works electronically.

The motor, control unit, transmission and electro-mechanical lock are all assembled in a specific aluminium box.

The gearmotor conveys the movement to the moving door wings via a toothed belt. The moving door wing is fixed to a carriage, and slides on a track inside the box. The path of the door wing is guided by a special floor guide.

When an opening pulse (for instance from a movement sensor) is received by the control unit, the motor starts up and conveys the opening movement to the door wings.

Closure is automatic once the "opening time" has lapsed and the control unit has received no opening or stop command.

The user can choose the type of door operation by means of the functions selector switch, as explained on page 9.

### 4.1 Built-in safety

To ensure safe transit during closing operations, the door wings immediately reverse their movement direction if they meet an obstacle.

If an obstacle is detected during the opening operation, the door wings stop immediately and then close after a set delay time.

### 4.2 Safety system with photocells or presence sensors

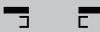
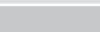
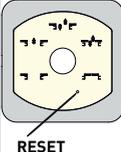
Photocells or presence sensors detect the presence of objects or people in the passage space. If the photocells or presence sensors detect an object or person in the passage while the door is closing, the door wings immediately reverse their movement direction.

They start moving again when the obstacle has been removed.

# 5. User instructions for the function selector switch

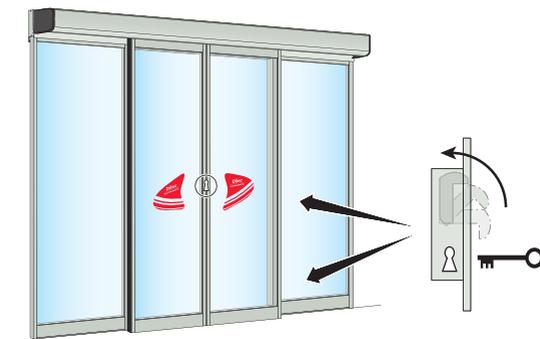
Select the required function as explained below.

The automation must be connected to the power supply at all times with the batteries connected (even at night) in order to ensure the correct functioning of the door and constant recharging of the batteries.

SELECTOR FUNCTIONS	COM500MKS
<b>DOOR OPEN</b> The door opens and remains open.	
<b>TOTAL ONE-WAY OPENING</b> For one-way operation from the inner/outer side of the door.	
<b>TOTAL TWO-WAY OPENING</b> For two-way door operation.	
<b>PARTIAL OPENING</b> For two-way with partial opening operation.	
<b>DOOR CLOSED</b> The door closes, and remains closed and blocked (if a blocking device is installed). WARNING: only use this function after making sure the building has been completely evacuated. The door cannot be opened by the internal and/or external sensors. The door can be opened by a key-operated switch or an emergency button (if installed).	
<b>RESET</b> Annuls the acquired data. If the problem persists after making the RESET, contact Technical Service.	

## 6. Instructions for releasing and manually activating the door

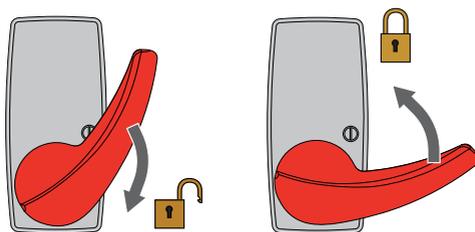
Release all the mechanical locks before activating the automatic system.



In the event of maintenance, malfunctioning or emergency, disconnect the power supply then lower the lock release lever (if installed) and manually move the door wings to their open position. To block the door wings again, bring the lock release lever back to its initial position.



**WARNING:** only lock and release the door wings when the motor is switched off.



## 7. Technical specifications

<b>Manufacturer:</b>	Entrematic Group AB
<b>Address:</b>	Lodjursgatan 10, SE-261 44 Landskrona, Sweden
<b>Type:</b>	Ditec DA107PLUS
<b>Mains power supply:</b>	100V~ - 240V~ ±10% 50/60 Hz
<b>Power consumption:</b>	max 75W
<b>Protection class:</b>	IP20 - FOR INDOOR USE ONLY

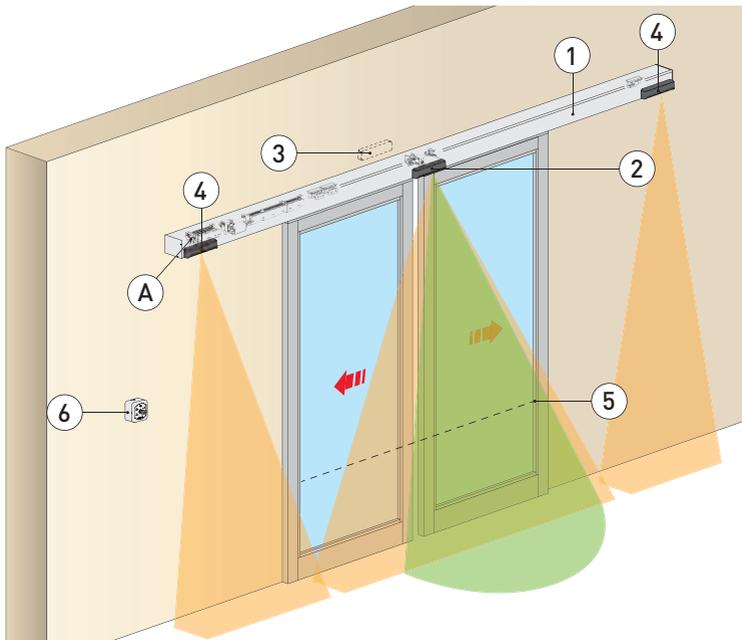
## 8. Regular safety checks

To meet the national/international requisites and avoid any risk of personal injury or device malfunctioning, the following check-list is supplied.

Do not use when repairs or adjustments need to be carried out.

Disconnect the power supply [A] when carrying out cleaning or maintenance tasks.

Daily tasks	In the event of problems
Activate the automation and visually check the fixing of: <ul style="list-style-type: none"> <li>• the automation [1]</li> <li>• the cables [B]</li> <li>• the function selectors [6]</li> <li>• the door and glass</li> </ul>	☎
Check the automation, and visually check: <ul style="list-style-type: none"> <li>• the condition of the door gaskets</li> <li>• the presence of the finger guard</li> <li>• that the door is working correctly, and closes slowly and smoothly</li> </ul>	🧑 ☎
Set the program selector on DOOR CLOSED  and check the automation and electro-mechanical lock (if installed) are working in synch. Check the door hooks up to the locking device properly.	☎
Activate the manual command devices, if installed. Approach the door and check it opens correctly via the automatic command devices [4].	☎
Check the photocells [5] / safety sensors [4] by standing in the path of the opening/closing door and activating the automation. As it opens and closes, the door must not hit the person carrying out the check.	☎



 = adopt suitable measures

 = contact the Entrematic Customer Technical Service.

## 9. Cleaning

To remove dust and dirt from the Ditec ENTREMATIC sliding door automations, use a soft cloth or sponge with a delicate detergent.

To keep the surface in good condition, clean it once every four months.

Thoroughly clean the seal gaskets and brushes (where envisaged) at regular intervals.

- Do not use alkaline-based products; they may damage the aluminium and glass.
- Do not use high pressure water jets for cleaning; the automatic system, functions selector switch and sensor may get damaged and water could penetrate into the profiles.
- Do not use polishing detergents.
- Do not rub with abrasive products, as they could cause damage.

## 10. General accessories

The Ditec ENTREMATIC sliding door automations can be fitted with the following accessories (for a detailed description, contact your local ENTREMATIC Group branch).

- Opening sensors
- Safety sensors
- Function selector switches
- Electro-mechanical lock
- Photocells

## 11. Troubleshooting / alarms

Problem	Solution
The door doesn't open and the motor doesn't start up	Check and change the functions selector switch settings.
	Make sure there are no objects on the sensor's detection path.
	Check the power supply switch inside the building.
The motor starts up, but the door doesn't open	Check any locks, releasing them if necessary.
	Make sure there are no objects hindering the opening of the door.
The door doesn't close	Check and change the functions selector switch settings.
	Make sure there are no objects on the sensor's detection path.
The automation opens and closes by itself	Make sure there are no moving elements on the sensor's detection area.



## 12. Routine maintenance plan (to be carried out by qualified personnel)

Perform the following operations and checks every 6 months, according to the intensity of use of the automation.

Without any power supply from the mains or from batteries:

- Clean and lubricate the mobile parts (the carriage slide guides and the floor guides).
- Check the belt tension.
- Clean sensors and photocells.
- Check the stability of the automatic system and make sure that all screws are correctly tightened.
- Check the correct alignment of the door wings, the position of the end stops, and the correct triggering of the blocking device (if installed).

After restoring the power supply from the mains or batteries:

- Check the blocking device is working correctly (if installed).
- Check the stability of the automation, and make sure it moves smoothly.
- Check that all control functions are operating correctly.
- Make sure the command and safety sensors are working correctly.



NB: for spare parts, see the spares price list.



Only use original spare parts when repairing or replacing products.

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