

ES 200 EASY PLUS

Operating manual

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EN

dormakaba 


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1. General

Please retain the documents and forward them to the new owner in case the system is passed on.

Symbols used in this manual

 **NOTE** A note points to important information that will facilitate your work.

 **WARNING** Indicates risks that may lead to physical injury or death

"Translation of the original manual"

2. Safety

This documentation contains important instructions for the safe operation. Read these instructions before you use the door system.

In order ensure your safety, please follow all the enclosed instructions.

Intended use

The **ES 200 EASYplus** is used exclusively for the opening and closing of folding doors for passenger traffic.

They may be used only in dry rooms.

The **ES 200 EASYplus** may not be used along escape and emergency routes.

Limitation of liability

The **ES 200 EASYplus** may be used only for their intended purpose.

Unauthorized modifications to the **ES 200 EASYplus** will exclude any liability by **DORMA Deutschland GmbH** for the resulting damage. We will not be liable for the use of accessories that are not approved by **DORMA**.


EMERGENCY stop button (optional)


In case of a hazardous situation or in order to prevent danger, the EMERGENCY STOP button will put the door system quickly into a safe state.


The EMERGENCY STOP button features a red operating element on a yellow background.


It is located near the door system.

Safety instructions

 **Work on electrical equipment may only be performed by properly qualified specialists (electricians).**

 **Do not let children play on the door system or its control devices.**

 **Never insert a metal object into the openings of the door system. Otherwise, there will be the risk of an electrical shock.**

 **Safety glass must be used for glass door panels.**

Residual risk

Depending on the structural conditions, the type of door and protection, it is not possible to rule out residual risks (e. g. slight bruising, limited impact and the risk to unsupervised children).

3. Product description

The **ES 200 EASYplus** is a sliding door drive for opening and closing doors for passenger traffic.

Technical data

Power supply: 230 V/50-60 Hz
 Protection class: IP 20
 Fuse protection provided by the customer: 10 A
 Operating noise: < 70 dB(A)
 Perm. air humidity: 93% rel. humidity, Non-condensing
 operating temperature: -20°C to +50°C

Program switch

You can select 5 functions via the program switch. The switch is located near the door system. Please refer to the corresponding manual for the operation of the program switch.

Function	Meaning
OFF <->	The system does not open automatically. In case of systems with a locking device, the door is mechanically locked.
AUTOMATIC ↑↓	The door will be automatically opened once an activator has been activated. The door will close again once the set hold-open time has expired.
PERMANENT OPEN <->	The door will automatically open and stays open as long as this function is activated.
EXIT ONLY ↑	The door will automatically open only after the inside activator has been enabled. The door will close again once the set hold-open time has expired.
PARTIAL OPEN ↑↑↓	The door will open automatically up to the set partial passage width once an activator has been enabled. The door will close again once the set hold-open time has expired.

External and internal detector

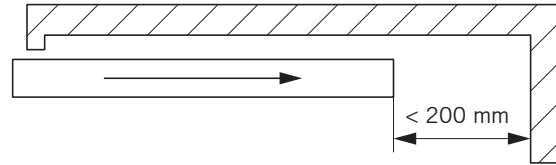
The detectors respond to movements. If a person or an object is within the detection range of the detectors the door will open and then close after the hold-open time has expired.

Safety sensors

The travel path between the opened door panels is monitored by safety sensors. If a person or an object is within the detection range of the safety detectors, the door will open and remain open in the open position. Once the monitored area is vacant again the door closes as soon as the hold-open time has expired.

Secondary closing edge protection (optional)

The secondary closing edge must be protected if the distance between the opened door panels and a fixed obstacle (e. (e.g. a wall) is less than 200 mm.



There are 2 options available:

- With self-monitored safety sensors
If a person or an object is within the detection range of the safety sensors during the opening movement, the door will stop and, depending on the setting, stay in place or slowly continue to move.
- With protection wings

Self-test of the safety sensors

The safety sensors are automatically tested prior to each closing movement. If the test is negative (door no longer closes), the system must be checked by a service technician.

Force monitoring

The door system features a system for the detection of obstacles that are not detected by safety sensors (e. g. a door mat laying in the travel path). If the obstacle is detected during a closing movement, the door will reopen. After the hold-open time, it slowly approaches the obstacle (it moves fast up to the obstacle). This process is repeated until the obstacle has been eliminated. If the obstacle is detected during an opening movement, the door will stop. The door performs up to 6 slow opening movements. If the obstacle still exists, the door will close. During the next opening pulse, the door will slowly open. The process is repeated until the obstacle has been eliminated.

Automatic extension of the hold-open time

In order to protect the motor from overheating, the hold-open time will be automatically extended when the door system is highly frequented. It will be automatically reduced to the set value again if the frequency decreases.

Night/bank activator (optional)

The night/bank activator is used to open the disabled door system from the outside. Depending on the model, it can be operated using a key or electronically (e. g. with a credit card or EC card). It is located on the outside near the door system.

Emergency opening in case of a power failure (optional)

This is possible only if the battery is installed. In the program switch position OFF, the door remains closed and locked. In the program switch positions AUTOMATIC, PARTIAL OPEN and EXIT ONLY the door can be opened with the help of the battery.

Service display (optional)

The display will remind the operator that maintenance is to be carried out on the door system. The maintenance intervals can be set by the service technician. You can enter a time interval (month, e. g. every 6 months) and/or a load cycle interval (e. g. after 80000 load cycles).

Depending on the type of event, the service display will light up as follows:

Load cycle interval has lapsed:

- ▶ Display shows continuous light:

Time interval has lapsed:

- ▶ Display flashes (every 0.5 seconds).

Time and load cycle intervals have lapsed

- ▶ Display shows 10 seconds of continuous light and flashes for 10 seconds.

The maintenance notification will be acknowledged by the service technician.

4. Operation

Setting the door opening width

You can reduce the opening width of the door (e. g. to reduce draft in the winter).

Setting the partial opening width using the program switch.

1. Close the door.
2. Turn the program switch to the PERMANENT OPEN position.
 - ▶ The door slowly opens.
3. Once the door has reached the desired partial opening width, turn the program switch to the PARTIAL OPEN position.
 - ▶ The door will stop and save the position as the new partial open width.
 - ▶ The door closes.

Please contact the Service Department in case you are not able to set the partial opening width.

Shutting down the door system

1. Push the EMERGENCY STOP button.
 - ▶ The door will stop immediately and can be moved by hand.
 - ▶ The EMERGENCY STOP button remains in the pressed-in position.
2. Turn the EMERGENCY STOP button to the right.
 - ▶ The EMERGENCY STOP button will now move back into its original position.
 - ▶ The door operates again according to the set program function.

Opening the door using the night/bank switch

The program switch is in the OFF position.

1. Push the night/bank button.
 - ▶ The door unlocks and opens.
 - ▶ The door closes automatically.
 - ▶ The door is locked again.

Commissioning after a power outage

After a power outage, the control unit will carry out a self-test (duration approx. 5 seconds). The door will then slowly close and assume the previously set program function.

5. Maintenance and care

Maintenance

! Maintenance work is to be carried out only when the system is de-energized (pull the power plug).

The door system is to be tested and maintained, if necessary, at least once a year by a specialist.

The testing and approval must be carried out according to the test book by a person trained by **DORMA**. The results are to be documented and to be retained by the operator for at least 1 year.

- We recommend to enter into a maintenance contract with **DORMA**. For more information go to www.dorma.com.

The following parts are wear parts and need to be checked at least once a year and replaced, if necessary (see installation instructions).

- End stops
- 2 Guide rail
- 3 Battery pack ES200 cpl., order no. 04000160
- 4 Drive belt
- 5 Guide rollers
- 6 Caster

Use only original spare parts.

Care

Turn the program switch during the cleaning to the **OFF** position or **PERMANENT OPEN** position in order to prevent unintended movements.

Never let water or other other liquids enter the drive unit.

! Never insert a metal object into the openings of the drive unit. Otherwise, there will be the risk of an electrical shock.

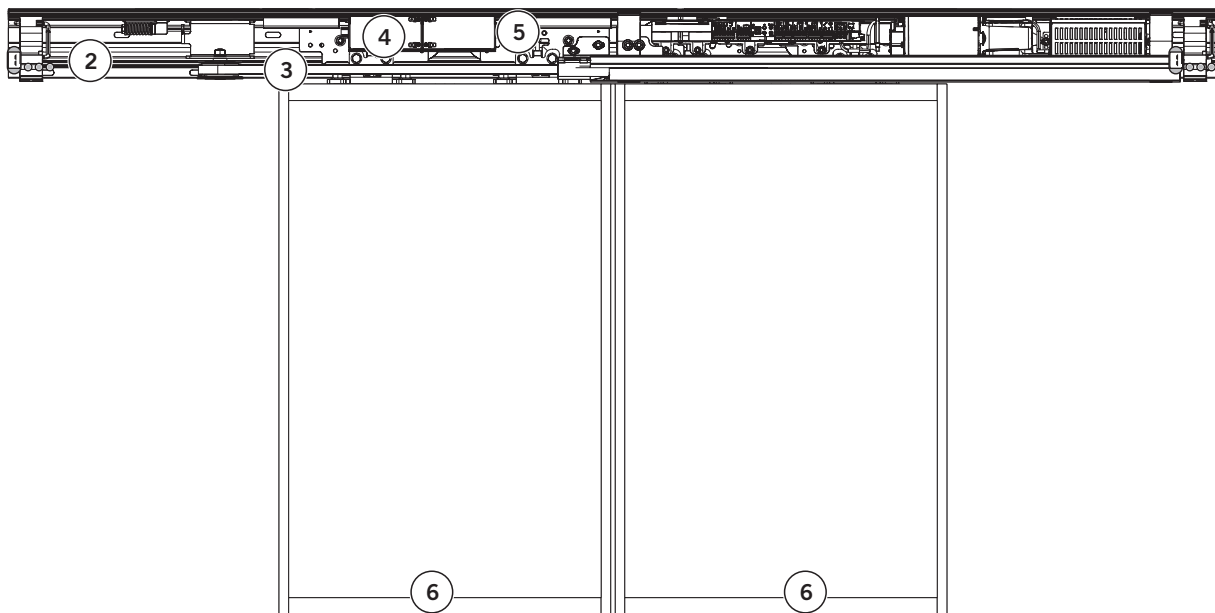
Clean the entire door system (aluminium, glass, cover) with a moist cloth and common cleaning agents. Do not use any scrubbing agents as they might damage the surface. Keep the floor guide rail clean at all times.

Replacing the battery

Always note the warning on batteries. Use only recommended batteries approved by DORMA

The battery may be replaced only by qualified persons.

Refer to the installation manual. The removal of the battery pack is carried out in the reverse order of the installation manual.



6. Troubleshooting

In case errors occur during the operation, please check the following items:

- Mains voltage available?
- Is the EMERGENCY STOP button unlocked?
- Is the program switch in the correct position?
- Is the door blocked by objects?

Please contact the Service Department if these points are okay and the doors system still does not work.

☞ Safety sensors

The safety sensors are to protect the passage area. The safety of people has the highest priority for the settings.

Especially in case of changing weather (rain or snow showers), in case of leaves flying around or in case of a direct sunlight on reflecting floor coverings, it may lead to sporadic faulty detections by the safety sensors. This might cause the door to take up to one minute to open. This is a required standard and completely normal. It is designed exclusively for the users of the door.

7. EC Declaration of conformity

dormakaba Deutschland GmbH
DORMA Platz 1, 58256 Ennepetal

hereby declares that the products
ES 200 EASY, ES 200, ES 200-2D, ES 200 EASYplus, ES 200 2D FIA, ES 200 CO48, ES 75
complies with the provisions of the EC Directive(s) specified in the Appendix and that the standards and/or technical specifications referred to in the Appendix were applied.

Directive: 2014/30/EU Electromagnetic compatibility
2011/65/EU RoHS

The technical documentation is available from the Product Compliance Manager:
product-compliance.dach@dormakaba.com

Harmonized European standard, national rule:

EN 13849-1	EN ISO 12100	EN 16005
EN 60335-2-103	EN 61000-6-2	EN 61000-6-3
EN 61000-3-2	EN 61000-3-3	EN IEC 63000

8. EC Declaration of incorporation

dormakaba Deutschland GmbH
DORMA Platz 1, 58256 Ennepetal

hereby declares that the incomplete machine
ES 200 EASY, ES 200, ES 200 2D, ES 200 EASYPLUS, ES 200 2D FIA, ES 200 CO48
complies with the following basic requirements of the Machinery Directive (2006/42/EC) - Annex I, Section: 1.1.3, 1.1.5, 1.2.1, 1.2.3, 1.2.5, 1.2.6, 1.3.2, 1.3.3, 1.3.4, 1.3.8.1, 1.3.9, 1.5.1, 1.5.2, 1.5.4- 1.5.10, 1.5.16, 1.6.1, 1.6.2, 1.6.3, 1.6.4, 1.7.1.1, 1.7.3, 1.7.4

The incomplete machine further complies with all relevant provisions of Directives 2014/35/EU and 2014/30/EC. It may be incorporated and operated in automatic door control mechanisms in conformity with the Machinery Directive provided that the manufacturer of the systems ensures that all requirements under the Machinery Directive are met and an EC Declaration of Conformity has been issued.

The specific technical documentation was prepared and is available from the Product Compliance Manager at **product-compliance.dach@dormakaba.com**. It will be electronically forwarded to individual public authorities in response to a duly reasoned request.

9. UKCA Declaration of conformity

This declaration is issued under the sole responsibility of the manufacturer.

The undersigned representing the following manufacturer
dormakaba Deutschland GmbH
DORMA Platz 1, 58256 Ennepetal, Germany

hereby declares that the products
ES 200 EASY, ES 200, ES 200-2D, ES 200 EASYplus, ES 200 2D FIA, ES 200 CO48, ES 75
complies with the provisions of the applicable UK legislation and UK designated standards.

UK Legislation:

- Electromagnetic Compatibility Regulations 2016
- RoHS, The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Regulation 2012

The technical documentation is available from the Product Compliance Manager at:
product-compliance.dach@dormakaba.com

Harmonized European standard, national rule:

EN 13849-1:2015
EN ISO 12100:2010
EN 16005:2012/AC:2015
EN 60335-2-103:2015
EN 61000 - 6 - 2:2005
EN 61000 - 6 - 3:2007/A1:2011
EN 61000 - 3 - 2:2014
EN 61000 - 3 - 3:2013
EN IEC 63000:2018

10. UKCA Declaration of incorporation

This declaration is issued under the sole responsibility of the manufacturer.

The undersigned representing the following manufacturer
dormakaba Deutschland GmbH
DORMA Platz 1, 58256 Ennepetal, Germany

declares that the partly completed machine(s)

**ES 200 EASY, ES 200, ES 200 2D, ES 200 EASYPLUS,
ES 200 2D FIA, ES 200 C048**

complies with the following basic requirements of the Supply of Machinery (Safety) Regulations 2008 – Annex I, Section: 1.1.3, 1.1.5, 1.2.1, 1.2.3, 1.2.5, 1.2.6, 1.3.2, 1.3.3, 1.3.4, 1.3.8.1, 1.3.9, 1.5.1, 1.5.2, 1.5.4- 1.5.10, 1.5.16, 1.6.1, 1.6.2, 1.6.3, 1.6.4, 1.7.1.1, 1.7.3, 1.7.4

The partly completed machine further complies with all relevant provisions of the Electromagnetic Compatibility Regulations 2016 and the Electrical Equipment (Safety) Regulations 2016.

It may be incorporated and operated in automatic door control mechanisms in conformity with the Supply of Machinery (Safety) Regulations 2008 provided that the manufacturer of the systems ensures that all requirements under the Supply of Machinery (Safety) Regulations 2008 are met and an UKCA Declaration of Conformity has been issued.

The specific technical documentation was prepared and is available from the Product Compliance Manager at **product-compliance.dach@dormakaba.com**.

It will be electronically forwarded to individual public authorities in response to a duly reasoned request.

11. Disassembly, recycling and disposal

The disassembly is carried out in the reverse order of the installation manual and must be carried out by qualified personnel.

De-energize the product before the disassembly.



Dispose the product in an environmentally friendly manner. Electronic parts and batteries may not be disposed via the general trash. Take them to an appropriate collection point for disposal.

Always comply with the applicable national legal provisions.

