

PORTEO

Manual

Product information



Read the manual before the assembly carefully! Follow the instructions in the documents!

Pages 1 - 36



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General safety instructions

Intended application

PORTEO door assistants are only designed to open and close doors. Small children are not I allowed to play with the PORTEO door assistant. Do not allow children to play with the PORTEO door assistant or rigidly mounted adjustment and/or control devices. Keep the remote controls out of reach of children.

Product-specific characteristics 2.

PORTEO door assistants are suitable for application at swing doors applied inside a building.

3. Standards, laws, codes and regulations

The latest versions of the common and country-specific standards, laws, codes and regulations have to be observed.

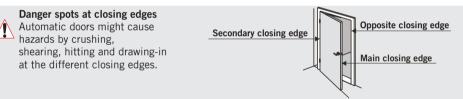


PORTEO as low energy product according to German DIN 18650 (German industrial standard)

According to the German industrial standard DIN 18650, the swing path of an automatic door has to be protected amongst others by safety sensors. However, there are special requirements for the application of a low-energy product.

The **DORMA PORTEO door assistant "low energy**" meets the requirements of a low-energy application according to the standard by fulfilling the following requirements:

- ✓ Reduced driving speeds (reduced dynamic forces at the door leaf and reduced dynamic contact forces).
- \checkmark Force limitation (reduced static forces at the door leaf/reduced static contact forces).



Required protection according to DIN 18650 for PORTEO door assistant "low energy"

The German industrial standard DIN 18650 has different requirements regarding the protection of the above-mentioned danger spots.

For the application of the **DORMA PORTEO door assistant "low energy"** the following requirements prevail:

- \checkmark An additional protection of the door system is not compulsory.
- \checkmark The application of safety sensors at the main closing edge and the opposite closing edge as additional protection is optional and at the discretion of the person performing the installation of the door system in accordance with the result of the individual risk assessment (please also refer to "risk assessment", see page 6).
- \checkmark All people using a door are generally aware of the danger spot at the secondary closing edge of every door (also at manually operated doors). This danger spot cannot be influenced by the manufacturer of the operator and a protection of this closing edge often cannot be realised due to its construction and technical function. A suitable clamping protection (e.g. rubber or textile cover) is available in the specialised trade and is not part of the scope of delivery.
- ✓ All in all: High safety standard of the application!

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General safety instructions

Risk assessment on the part of the installer

Due to special spatial conditions and the expected user group of the door, the application of safety sensors could be reasonable also for a low-energy operator.

✓ Thus an individual risk assessment has to be performed during planning by the manufacturer, i.e. by the person performing the installation of the doors system.

For this purpose we would ask you to refer to our "risk assessment" form, which is available on our internet homepage "www.dorma.com/porteo" and will help you to perform the risk assessment.

Special requirements regarding the protection of people in need of protection

In case the risk assessment reveals that there is a health risk or risk of injury caused by the door hitting a person using the door with an unacceptable force, an additional protection by a safety device (connection of a safety sensor) is required.

This is especially necessary when people in need of protection (children, elderly people or disabled people) use the door.

4. Limitation of liability

The **PORTEO door assistant** must only be applied according to its intended application. The DORMA GmbH + Co. KG does not accept any liability for damages resulting from unauthorised modifications of the system.

5. Documentation

Important instructions for the safe installation of the system.

All instructions mentioned in the documentation have to be observed.

An incorrectly performed installation might entail serious injuries.

To insure the proper safety of people, it is important to abide by these instructions. These instructions have to be kept.

6. General information regarding the installation

When performing mounting and installation work: The **PORTEO door assistant** has to be deenergized before removing the cover. Remove power plug, or, in case of permanent power connection, switch off fuse.

Required preparation on site

The working area has to be secured against unauthorised access from other people.



Falling items or tools might cause injuries.

In any case, the way of installation and the mounting equipment, like screws and wall plugs, have to be adequate with regard to the structural conditions (steel structure, wood, concrete, etc.). Before the installation of the **PORTEO door assistant**, the door leaf/door leaves has/have to be checked with respect to proper mechanical condition and smooth running.

Following installation

Following installation, the setting and the proper function of the operator and the safety devices have to be checked.

The installation instructions of this operator are only an example. Structural or local conditions, available tools or other conditions might suggest a different approach.



General safety instructions

Noise exposure for doors without sealing

Doors without sealing may cause an increasing noise level when closing. In order to reduce this noise level, further action should be taken. For example cellular rubber strips or self-adhesive rubber cushions should be attached to the closing edges.

7. Improper application

The **PORTEO door assistant** is not suitable for application on fire and smoke doors and in external areas.

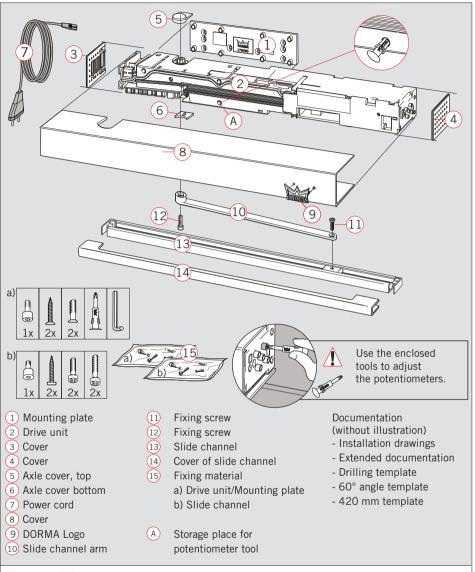
8. Disposal

The **PORTEO door assistant** may not be disposed with the domestic refuse.



Standard scope of delivery

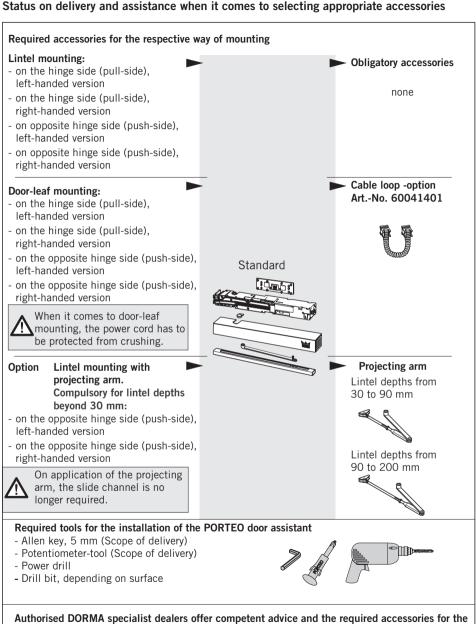




Status on delivery:

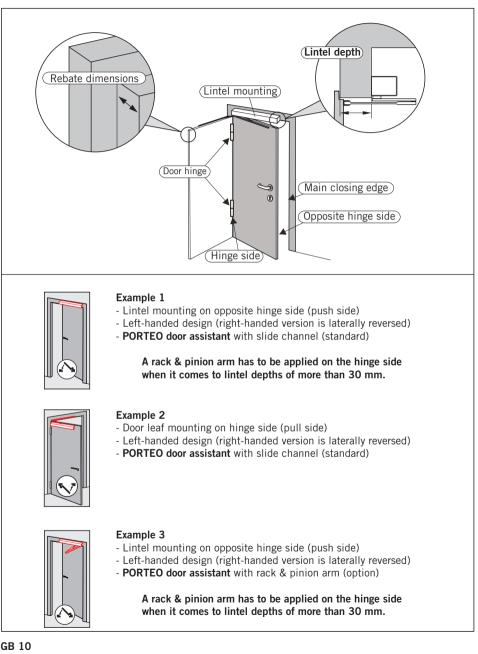
The operator is supplied with a mains plug. Ready-to-plug-in incl. power cord. A 2-pole-and-earth mains plug with 10 A fuse protection must be available. The power supply (230/115 V AC \pm 10%, 50/60 Hz, 65 VA, IP 20) has to be provided by others.





PORTEO door assistant.

"Door basics" technical terms





Function and adjustments

General information

The **PORTEO door assistant** has been pre-adjusted for various kinds of applications (basic settings).

The settings: swing direction, door weight, door width, way of mounting, **"closed" position** and **"open" position** are important for the smooth and proper operation of the door system.

Some of these settings are part of the basic settings, others have to be determined while some settings are determined automatically during the learning cycle.

The determination of the settings is a simple and plain procedure that is described on the pages 14 to 19.

Function

The opening or closing cycle is triggered either by active or automatic activators.

The activator sends a signal to the control unit.

The control unit in turn sends the pulse to the motor.

The motor starts and converts the pulse into a movement.

The arm transfers the movement of the motor onto the door.

The door performs either an opening or a closing cycle.

There are either active or automatic activators.

Active activators are for example pushbuttons or door handles while automatic activators are radar motion detectors or sensors.

Settings/Adjustments

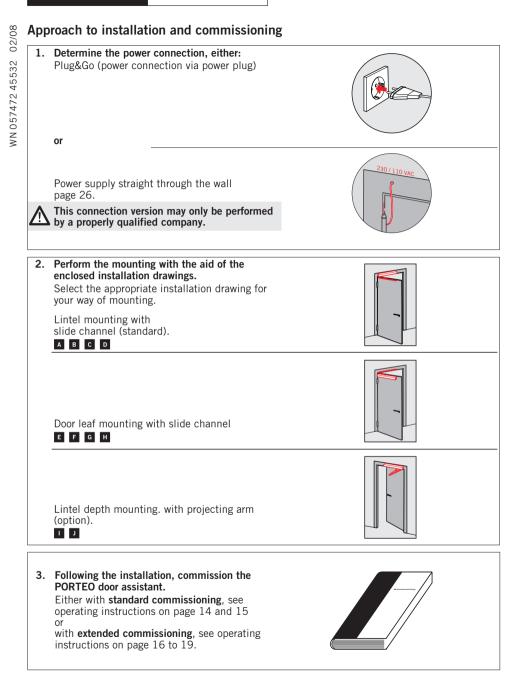
The control unit of the PORTEO door assistant requires the following parameter settings for control-internal operations:

- swing direction -left or right
- way of mounting -lintel mounting or door leaf mounting
- mounting side -hinge side/pull side or opposite hinge side/push side
- lintel depth (see page 10)
- kind of accessory -slide channel (standard) or projecting arm
- door width
- door weight
- position of the door when closed ("closed" position)
- position of the door when it is completely open ("open" position, freely adjustable)
- and latching action.

Each setting is learnt automatically during commissioning. Follow the instructions indicated in the commissioning instructions.

- Standard commissioning see page 14 and 15.
- Extended commissioning see page 16 to 19.



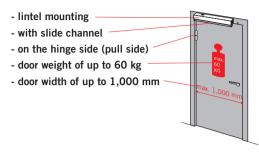




Requirements for standard commissioning

Basic settings

The **basic settings** offer base values for these settings:



Most interior doors have a door width of less than 1,000 mm and a door weight of less than 60 kg.

As far as the structural conditions as well as the basic values of the lintel-mounted operator with slide channel on the hinge side (pull side) correspond to the above-mentioned basic values, the door closer can be commissioned with the aid of the **standard commissioning**.

Deviations from basic values of original settings.

In case the basic values are not identical with the basic values of the **original settings**, the deviant settings have to be determined and adjusted during the **extended commissioning**. page 16 to page 19.

door leaf width in mm	max. door weights in kg
600	125
700	110
800	100
900	90
1,000	80
1,100	80

Door leaf width and admissible maximum weights

 ${\rm I}$ In case the basic values are not identical with the basic settings, the deviant settings have to be determined and adjusted.

The deviant settings are determined and readjusted during the "extended commissioning",



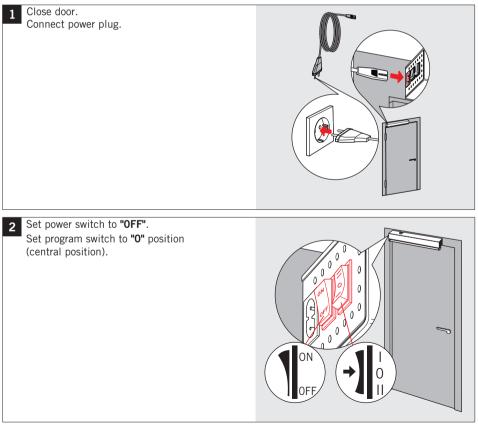
Standard commissioning

Requirements

- The **PORTEO door assistant** has been installed.
- The door can easily be moved by hand.
- Perform the following steps of the **standard commissioning** one after the other.
- The (visual) acknowledgement is made via the light indicator (LED).
- You can stop and restart this procedure at any time by simply switching off the system.
- The stored settings can be "overwritten" by a new commissioning procedure.

The "approach" describes the commissioning of the standard system. Accessories like for example electric strikes or sensors are adjusted following the successful commissioning of the system.

Standard commisioning

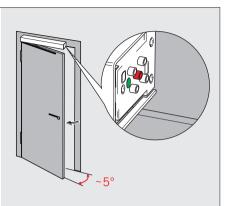




Standard commissioning

3 Determination of swing direction:

- Open door by approximately $5^\circ.$

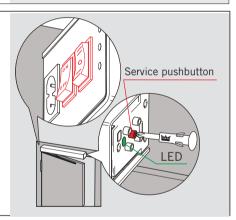


4 Determination of swing direction: Simultaneously, until the door starts moving,

 Press service key and switch on power switch.
 Press and hold service key for 8 sec. until the door starts moving, then release the service key.

➤ The LED (green) blinks.

The door determines the swing direction and travels to its **"closed"** position.



Determination of "open" position:

- Move door to desired "open" position.
- ► The LED (green) blinks.

5

- Press service key once.
- The LED emits a permanent light for 3 sec., then it blinks

The door determines this position as its **"open"** position.

The door travels to its "closed" position.

➤ The LED (green) emits permanent light.



6 Following the learning cycle, the PORTEO door assistant is ready for operation. Now you can perform further adjustments like speed, hold-open time or adjustments regarding the optional accessories like for example the electric strike, see adjustments page 22 and 23.



Extended commissioning

When it comes to deviations from the basic values of the original settings (see page 13), an extended commissioning is required.

For example:

- projecting arm instead of slide channel
- a different door width (more than 1,000 mm)
- a different door weight more than 60 kg)

Approach in case of extended commissioning and learning cycle

You can stop and restart this procedure at any time by simply switching off the system.

Requirements

- The **PORTEO door assistant** has been installed.

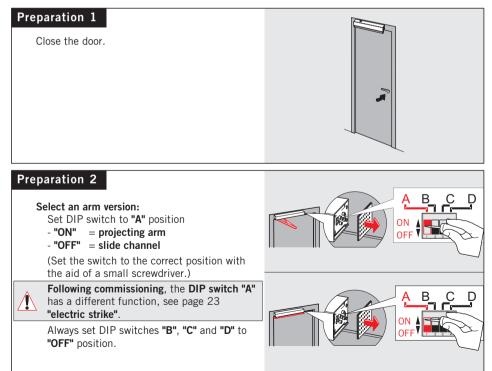
- The door can easily be moved by hand.

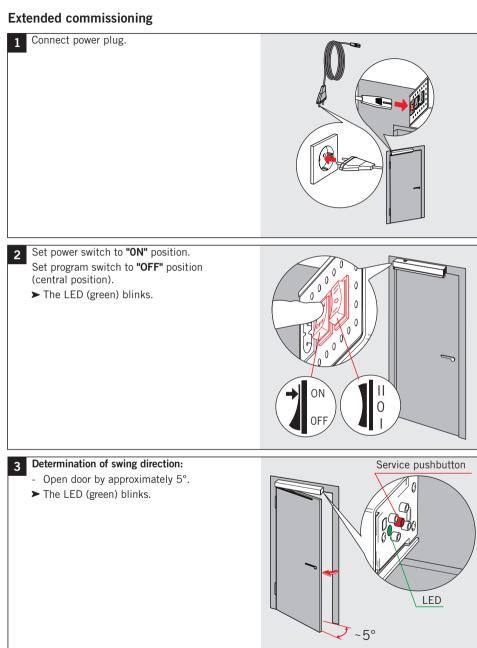
The stored settings can be "overwritten" by a new commissioning procedure.

The "approach" describes the commissioning of the **PORTEO door assistant** without any accessory.

Accessories like for example electric strikes or sensors are adjusted following the successful commissioning of the system.

Extended commissioning







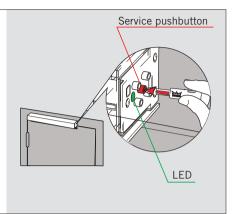
Extended commissioning

4 Determination of swing direction:

- Press service key, until the door starts moving (approx. 3 sec.).
- The LED (green) emits a permanent light for 3 sec., then it blinks

During this procedure the control unit determines and stores the swing direction of the door.

The door travels to "closed" position.



5 Teaching-in the way of mounting and arm version:

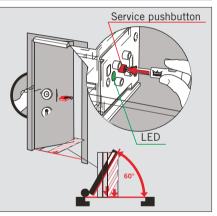
- Open door by approximately 60°.
 (60° angle template is enclosed).
- ➤ The LED (green) blinks.
- Press service key once.
- The LED (green) emits a permanent light for 3 sec. then it blinks.

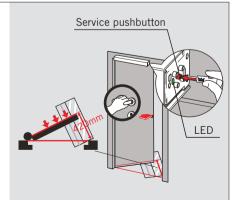
During this procedure the control unit determines and stores the way of mounting and the arm version.

6 Teaching-in the door width:

- Open the door by approximately 420 mm (420 mm angle template is enclosed).
- ➤ The LED (green) blinks.
- Press service key once.
- The LED (green) emits a permanent light for 3 sec. then it blinks.

During this procedure the control unit determines and stores the door width.





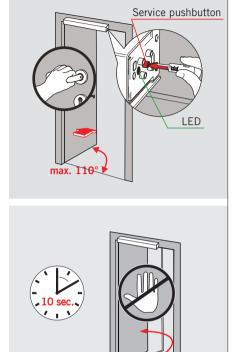


Extended commissioning

Determination of "open" position: 7

- Move door to desired "open" position.
- Press service key once.
- ➤ The LED (green) emits a permanent light for 3 sec., then it blinks.

The control unit stores this position as "open" position.



After 10 seconds, the door closes at low speed. An automatic learning cycle starts.

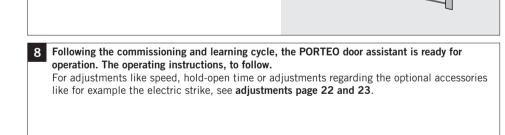


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The door performs some movements that must not be interrupted.

Then the door remains in "closed" position.

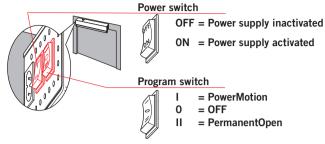
➤ The LED (green) emits a permanent light signal.





Operation

Operating type/functions



Power switch in "ON" position. Program switch in "O" (OFF) position.



- When in "O" position:
- The electric functions of the PORTEO door assistant are switched off.
- The PORTEO door assistant does not have a function.
- The door can be accessed manually.

Either via door handle or key.

Program switch in "I" position = "PowerMotion"



When in **"PowerMotion**" position, the opening and closing cycles are controlled by activators.

- When an opening pulse is triggered the door opens automatically and closes automatically on expiry of the preset hold-open time (5 sec. to 30 sec.).

Please note! In case an opening pulse is triggered during the hold-open time (while the door is in "open" position), the hold-open time is reset, that means it starts from 0 sec.

Before activating the program switch, you have to ensure that the door is neither closed nor locked. Otherwise the door cannot leave "closed" position.

Program switch in position "II" = "PermanentOpen"



Set program switch in position "PermanentOpen".

- When in "PermanentOpen" position
- The door travels to "open" position and remains in this position, until another operating type is adjusted with the aid of the program switch.

OPTION - "PermanentOpen" with flip-flop function, in program switch position "PowerMotion" with pushbutton or hand-held remote control as activator.

Press pushbutton twice in short succession or press the programmed pushbutton on the hand-held transmitter once:

- the door travels to "open" position and remains in this position.

The door closes as soon as the pushbutton is pressed again twice in short succession or the programmed pushbutton on the hand-held transmitter is activated again for one time.



Operation

Operating type/function "PowerLess"

Powerless

Program switch in position "I" (PowerMotion).

During "PowerLess" operation, the door can be opened manually and without effort.

Open the door with the door handle. The door closes automatically on expiry of the hold-open time. The **"PowerLess"** function is adjusted via **potentiometer 1**. See **"Adjustable settings" page 22/23**.

Operating type/function "Push&Go".



Requirement:

Program switch in position **"I" (PowerMotion). Potentiometer 1** must not be set to **"PowerLess"** position. The **"Push&Go"** function is permanently activated during **"PowerMotion"** operation.

In **"Push&Go"** mode, the opening pulse is triggered by a manual movement of the door by approx. 3° :

- The door travels to "open" position and closes automatically on expiry of the hold-open time.

When a further opening pulse is triggered during the closing cycle (the door is opened against its swing direction), the door travels back to the adjusted "open" position and closes automatically on expiry of the adjusted hold-open time.

Obstacle recognition

During the opening travel

If the door meets an obstacle during the opening travel, the opening travel is stopped immediately. After approx. 3 sec. the door restarts an opening travel. If the door, meets more than three times an obstacle up to reaching the **"on-position"**, the door drives again into the close position. This procedure repeats itself with each opening impulse, until the obstacle is eliminated.

During the closing travel

If the door meets an obstacle during the closing travel, the closing travel is stopped immediately. The door stops at the obstacle. After some seconds the door drives some degrees in the direction **"off"**, in order to relieve the obstacle. After a waiting period the door tries to close again. This procedure is continued so long until the obstacle is eliminated.

Vandalism mode

The **PORTEO door assistant** has a vandalism mode.

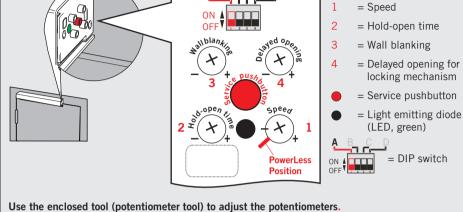
In case the door is pressed against its original driving direction during an opening or closing cycle, the gear is disabled (the door can be operated manually).

Following approx. 5 seconds the door automatically returns to the adjusted function program.

Latching action

The latching action accelerates the closing speed when the door reaches the last few degrees before it closes in order to overcome air resistance, the closing resistance of the latch and the friction/resistance caused by door sealings (if available). The latching action is deactivated on delivery. For adjustments please refer to page 23.

Adjustments



Adjustable settings

The following settings can be adjusted with the aid of the **potentiometers** (controllers) 1 to 4:

- Function "PowerLess"
- Delayed opening for locking mechanism
- Speed - Wall blanking

- Hold-open time

Adjust the mode of operation "PowerLess"

PowerLess Position

Adjust the speed

Speed

Set power switch in position "ON".

Set program switch in position "I" (PowerMotion). Turn **potentiometer 1** (speed) to the left as far as possible to **"PowerLess"** position.

Set power switch in position "ON". Adjust the desired opening and closing time (speed) via **potentiometer 1**. The original setting for the driving path from 0° to 90° amounts to 10 seconds. The original setting for the driving path from 90° to 0° amounts to 10 seconds.

When in "PowerLess" mode, the door can be opened manually and almost

effortlessly. The door closes automatically on expiry of the adjusted hold-open time.

The speed is adjustable from 5 sec. to 10 sec. and is for the driving path for an opening angle from 0° to 90°.

PowerLess Position

10 sec.

GB 22

- = lowest possible speed (driving time = 10 sec.) + = highest possible speed (driving time = 5 sec.)

Do not confuse the "PowerLess" position with the lowest possible speed $\langle \mathbf{I} \rangle$ (direct in front of "PowerLess").



Speed



= PowerLess

Adjustments

Adjust hold-open time



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- Set program switch in position "ON".
- Adjust the desired hold-open time via potentiometer 2.
 - The hold-open time is adjustable for a period from approx. 5 sec. to 30 sec.
 - = 5 sec. hold-open time
 - + = 30 sec. hold-open time

Adjustment of hold-open time during "PowerLess" operation mode/function.

Turn potentiometer 1 to "PowerLess" position.



Adjust the desired hold-open time via **potentiometer 2**.

The hold-open time is adjustable for a period from approx. 0.5 sec. to 30 sec.

- = 0,5 sec. hold-open time
- + = 30 sec. hold-open time

Adjust wall blanking (only with optional sensor technology)



Set power switch in position "ON".

- Adjust the wall blanking via potentiometer 3.
- The wall blanking is adjustable from approx. 80° to 110°.
 - = 80° opening angle
- + = 110° opening angle

Adjustment for application of an electric strike (optional)

Following commissioning, the **DIP switch A** has a different function.

The electric strike can be activated with **DIP switch A** following commissioning. The previous settings/adjustments (arm version) then remain unchanged.



- The control unit requires the information that an electric strike is applied. Therefore, the **DIP switch A** has to be set to the "correct" position.
- 1. Set DIP switch A to "ON" position. The function "electric strike" is now activated.

Der Color

- **2.** Adjust the delayed opening for the locking mechanism. Adjust the delayed opening for the locking mechanism via **potentiometer 4**. The delayed opening for the locking mechanism is adjustable for a period from approx. 0.2 sec. to 3 sec.
 - = 0.2 sec. delayed opening of locking mechanism
- + = 3 sec. delayed opening of locking mechanism

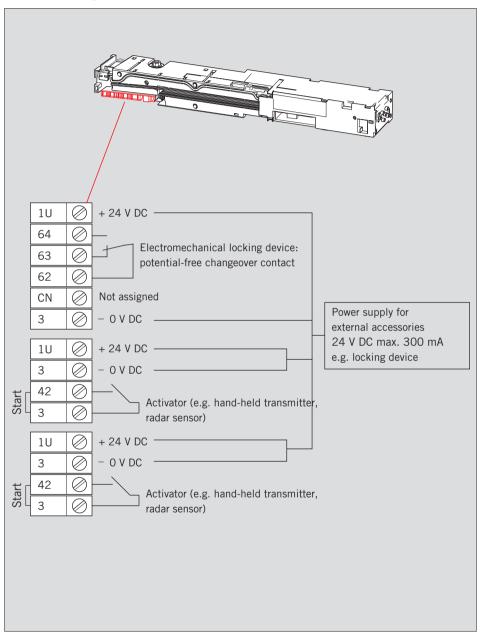
Adjustment of latching action

When the electric strike is activated, also the latching action is activated (**DIP switch A in "ON" position**).

- **DIP switch A** in **"OFF"** position = the latching action is deactivated.

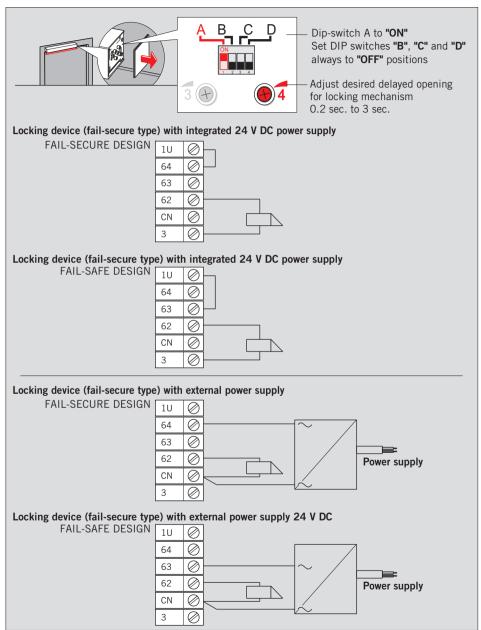


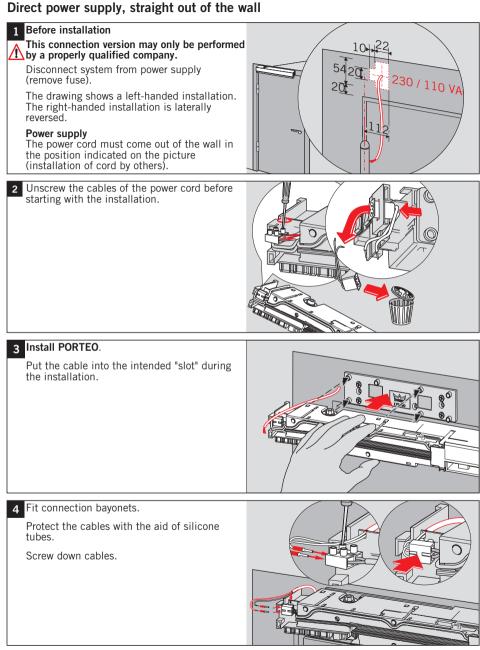
Connection diagram for connection unit





Connection diagram: electric strike

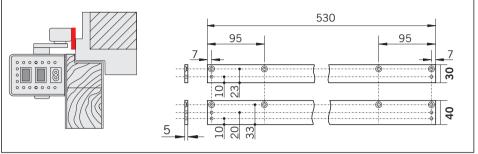




Accessories

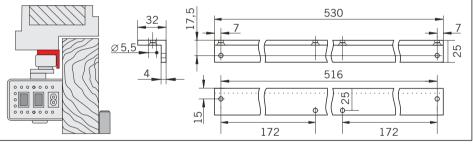
Mounting plates, 30 mm and 40 mm

For mounting of slide channel at door frames that are not suitable for direct mounting.



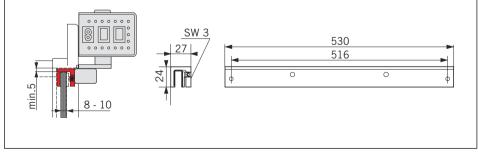
Angle bracket

For installation of slide channel on opposite hinge side (push side) when it comes to door frames with deep lintel. Safety sensors (optional).



Glass door clamping rail

In order to fix the slide channel to all-glass doors no processing of the glass is required. Only for lintel mounting on hinge side.





Accessories

Electric strike - Type Basic

Standard fail-secure electric strike of symmetrical design with adjustable latch, non-handed, suitable for overrebated and flush-closing doors (any position), including free-wheeling diode supplied loose for the DC versions.

See enclosed installation instructions for installation and electrical connections.

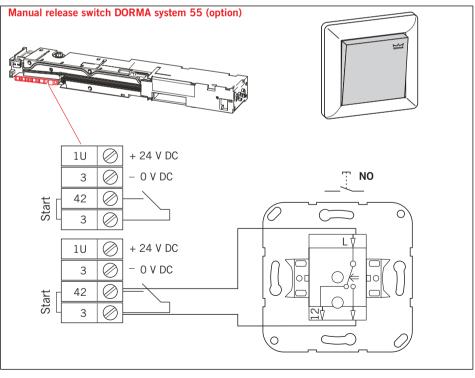


Safety sensors (optional)

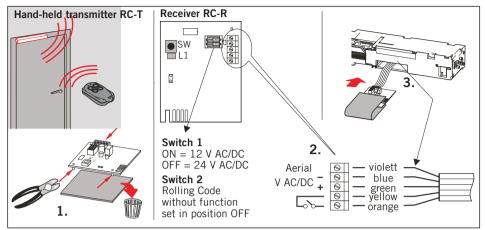
When the risk assessment reveals that the application of contactless safety devices is required, the swing range of the door has to be protected by **DORMA IRS-3** moving active infrared sensors.

In this case the $\ensuremath{\textbf{PORTEO}}$ door assistant has to be equipped with another connection unit, the $\ensuremath{\textbf{DORMA}}$ Comfort Board.

Please contact your DORMA specialist dealer for further information.



Hand-held transmitter RC-T



RC-T radio remote control system

As a radio remote control system, the **DORMA RC-T transmitter** (option) opens and closes automatic doors.

Only a limited number of hand-held transmitters can be applied. Every hand-held transmitter has to be programmed separately.

The **RC-R** receiver unit (has to be ordered separately and) is installed in the provided slot of the **PORTEO door assistant**.

Functions

Activator: open door - close door

Press programmed pushbutton on hand-held transmitter:

• The door opens and closes after the preset hold-open time.

Function 2 PermanentOpen

With the door closed, press pushbutton:

• The door opens and remains in that position

With the door open, again press pushbutton:

• The door closes.

Programming

Enabling function 1 (Pulse)

1. Briefly press pushbutton SW on the **RC-R** The LED near the pushbutton lights up for 5 sec.

- 2. Within these 5 sec. press any of pushbuttons on the handheld transmitter.
 - Function 1 has now been enabled. At the handheld transmitter this function is now fixed on the selected pushbutton.

Enabling function 2 -PermanentOpen

- 1. Press pushbutton SW on the **RC-R** until the LED next to the button extinguishes again. The LED flashes 30 seconds.
- 2. Then there is a short permanent light interval (approx. 3 sec.); press a button of the handheld transmitter while the permanent light is on.
 - Function 2 has now been enabled. At the hand-held transmitter this function is now fixed on the selected pushbutton.

Disenabling the modes Before each change of the pushbutton allocation setting must be deleted.

- 1. Disconnect the **RC-R** receiver.
- 2. Press pushbutton SW on the **RC-R** and hold.
- 3. Switch power back on.
 - LED lights up.
- 4. Release pushbutton.



Commissioning, care, maintenance

ICommissioning, care and maintenance (requirements according to DIN 18650-2, 5.1-5.4)

DIN 18650 also prescribes safety standards for the commissioning and maintenance of the complete automatic door system. As long as the facility operator intends to use the **PORTEO door assistant** according to this standard, the following requirements prevail

- Inspection and acceptance test according to the below-mentioned checklist before the first commissioning by a person trained by us.
- Regular maintenance and inspection, at least 1x a year, under consideration of our specifications for the **PORTEO door assistant** by trained staff.
- Documentation of the results in accordance with DIN 18650-2 paragraph 5.1-5.4.
- Safekeeping of the properly filled-out checklist according to our specifications for at least 1 year by the facility operator.

Checklist (start-up test, maintenance, regular inspections) for PORTEO door assistant according to DIN 18650-2, paragraph 5.1-5.4

Proper installation according to the instructions of the manufacturer. . (Tight fit of the **PORTEO door assistant** to the lintel/frame respectively, or the door leaf.)

Check door leaf for smooth running and adjust, if required.

Proper functioning of the door (check the opening and closing cycle respectively).

Function of installed activators like radar motion detectors, pushbuttons or remote controls.

Function of the contactless safety equipment (safety sensors), if installed (only for PORTEO as Full Energy version).

Installation of effective safety equipment to avoid or protect danger spots between certain parts of the door and between the door and its structural environment, like for example, safety clearances or the protection of the secondary closing edges.

- Fix inspection plate.
- Document the inspection and maintenance work.

The **PORTEO door assistant** has to be switched off and secured against unauthorised or unintended switching-on before performing maintenance work (cleaning or maintenance).

Troubleshooting instructions

Malfunction	Possible cause	Remedy
The LED light indicator	No power supply.	Switch on power switch.
is off.	Loose cable connections.	Connect cable connections
The door does not		thoroughly.
respond.	Damaged cable.	Replace cable.
1	The power plug is not connected.	Insert power plug.
	The door assistant is defective.	Replace door assistant.
The LED light indicator	The program switch is set to "O"	Set program switch to desired
lluminates.	position (central position).	position.
The door does not	The program switch is set to "II"	Set program switch to "I" position.
respond.	position (PermanentOpen).	
	PowerLess mode is adjusted.	Adjust PowerLess mode via
		potentiometer 1. See page 22/23.
	The door was opened via the	Close door via a new pulse.
	flip-flop function.	Press the pushbutton twice in quick
	L .L	succession.
	Defective door assistant.	Replace door assistant.
The LED light indicator	The learning cycle has not been	Restart learning cycle.
blinks.	performed properly.	
The door does not	External malfunctions.	Reset system.
respond.		1. Program switch to "O" position.
		2. Program switch to desired mode.
		3. Power switch to "OFF" position.
		4. Power switch to "ON" position
		after 5 sec.
	The electric strike does not open the	Set DIP switch A to "ON" position.
	door.	Check and repair or replace electric
		strike if required. Check and repair
		or replace electric connections if
		required.
	Defective door assistant.	Replace door assistant.
The door stops during a	The door does not run smoothly.	Check door and driving phase.
cycle.		Remove cause for unsmooth
		running.
		Check slide channel for dirt or wear
		and clean or replace if required.
The door opens beyond	Obstacle in driving phase of door.	Remove obstacle.
the adjusted opening	Opening angle incorrectly adjusted.	Repeat learning cycle.
angle.	The screws of the slide channel are	Tighten the screws thoroughly.
	loose.	
	Obstacle in driving phase of door.	Remove obstacle.
The door does not reach		
the adjusted opening	Opening angle incorrectly adjusted.	Repeat learning cycle.
	e secuere in anning phase er aben	Repeat learning cycle.
the adjusted opening	Opening angle incorrectly adjusted.	
the adjusted opening	Opening angle incorrectly adjusted. The screws of the slide channel are	Repeat learning cycle. Tighten the screws thoroughly.
the adjusted opening angle. The door opens automatically following	Opening angle incorrectly adjusted. The screws of the slide channel are loose.	Repeat learning cycle.
the adjusted opening angle. The door opens	Opening angle incorrectly adjusted. The screws of the slide channel are loose. The screws of the slide channel are	Repeat learning cycle. Tighten the screws thoroughly.



Troubleshooting instructions

Possible cause	Remedy
Program switch in position "II"	Set program switch in position "I".
PermanentOpen.	
	Reset system.
	1. Program switch to "0" position.
	2. Program switch to desired mode.
	3. Power switch to "OFF" position.
	4. Power switch to "ON" position
	after 5 sec.
	Program switch in position "II"

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