



PORTEO

Manual

Product
information



GB

Pages
1 - 36

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

Contents

General informations	page 5 - 9
General safety instructions	page 5 - 7
Standard scope of delivery	page 8
Status on delivery	page 9
“Door basics” technical terms	page 10
Functions and adjustments	page 11
- General information	
- Function	
- Adjustments	
Approach to installation and commissioning	page 12
Determine way of mounting, then mount system and commission PORTEO door assistant	
Lintel mounting with slide channel	
- Lintel mounting on the hinge side (pull-side), left-handed version	
Installation drawings	A
- Lintel mounting on the hinge side (pull-side), right-handed version	
Installation drawings	B
- Lintel mounting on the opposite hinge side (push-side), left-handed version	
Installation drawings	C
- Lintel mounting on the opposite hinge side (push-side), right-handed version	
Installation drawings	D
Door leaf mounting with slide channel	
- Door leaf mounting on the hinge side (pull-side), left-handed version.	
Installation drawings	E
- Door leaf mounting on the hinge side (pull-side), right-handed version	
Installation drawings	F
- Door leaf mounting on the opposite hinge side (push-side), left-handed version.	
Installation drawings	G
- Door leaf mounting on the opposite hinge side (push-side), right-handed version.	
Installation drawings	H
Option -Lintel mounting with standard/projecting arm	
- Lintel mounting on the opposite hinge side (push-side), left-handed version.	
Installation drawings	I
- Lintel mounting on the opposite hinge side (push-side), right-handed version.	
Installation drawings	J
Requirements for standard commissioning	page 13
Standard commissioning	page 14 - 15
Extended commissioning	page 16 - 19
Operation	page 20 - 21
Power switch	
Program switch -adjustment of operating types/functions	
- Operating type OFF	

Contents

- Operating type **PowerMotion**
- Operating type **PermanentOpen**
PermanentOpen with flip-flop function (pushbutton -optional)
- Operating type/function **PowerLess**
- Operating type/function **Push&Go**
- Obstacle recognition
- Vandalism mode
- Latching action

Adjustments

- Adjustment of operating type **PowerLess**
- Adjustment of speed
- Adjustment of hold-open time
- Adjustment of wall blanking (optional, only with Comfort Board)
- Adjustment of delayed opening for locking device via DIP switch and potentiometer
- Adjustment for application of an electric strike (optional)
- Adjustment of latching action

page 22 - 23

Connection diagram for connection unit

page 24

Connection diagram for electric strike (optional)

page 25

Direct power supply, straight out of the wall (optional)

page 26

Accessories (optional)

page 27 - 28

Hand-held transmitter RC-T

page 29

Commissioning, care, maintenance

page 30

Troubleshooting instructions

page 31 - 32

DORMA

■ ■ PORTEO



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General safety instructions

1. Intended application



PORTEO door assistants are only designed to open and close doors. Small children are not 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.

2. Product-specific characteristics

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.

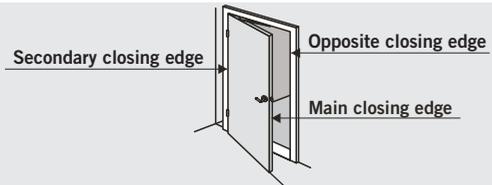
The **DORMA PORTEO door assistant "low energy"** meets the requirements of a low-energy application according to the standard by fulfilling the following requirements:

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



Danger spots at closing edges

Automatic doors might cause hazards by crushing, shearing, hitting and drawing-in at the different closing edges.



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:

- ✓ An additional protection of the door system is not compulsory.
- ✓ 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).
- ✓ 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!

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 de-energized 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.

PORTEO -certified safety

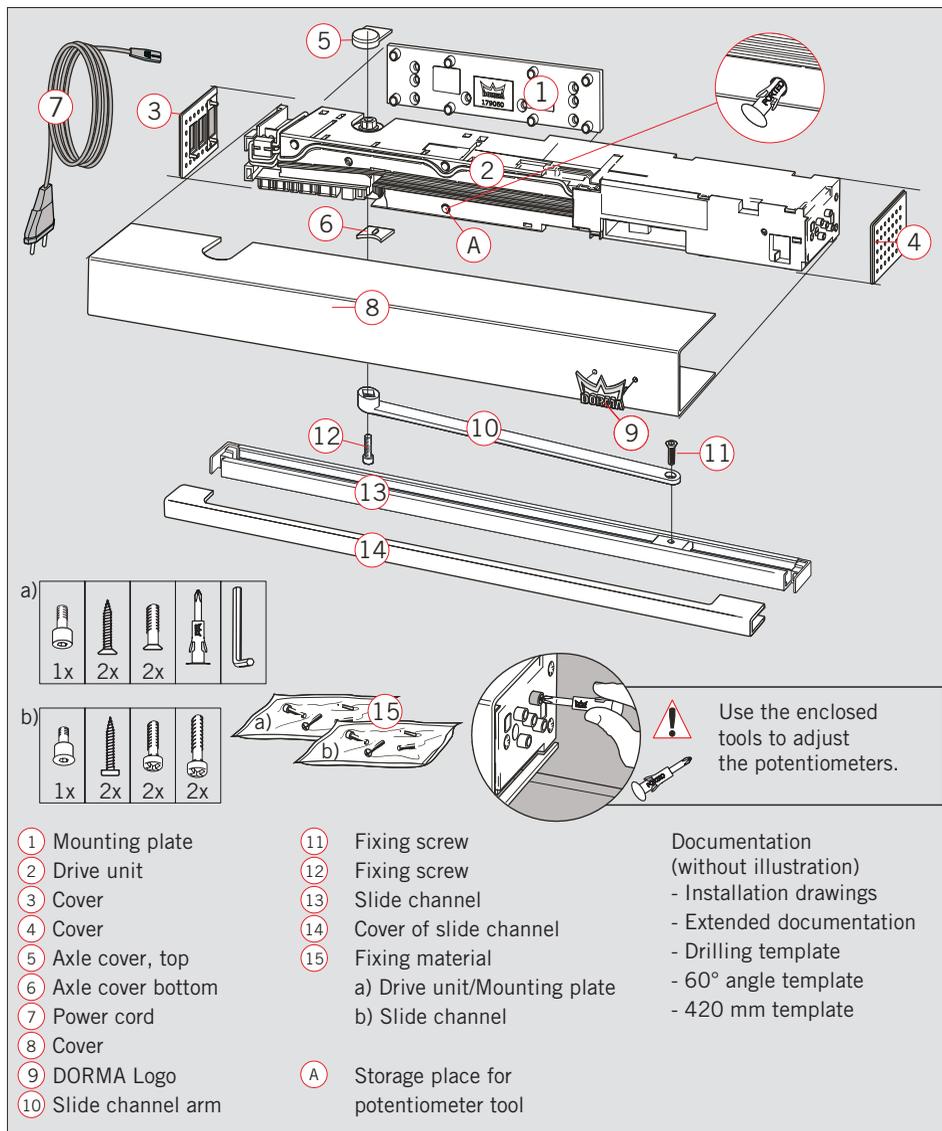


Developed according to the latest safety standards:

- + "low energy" according to DIN 18650
- +  TÜV approval
- +  CE mark
- +  GGT-seal of approval

The **TÜV certificate** and the **CE** certificate can be obtained from the manufacturer on demand.

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 ± 10%, 50/60 Hz, 65 VA, IP 20) has to be provided by others.

Status on delivery and assistance when it comes to selecting appropriate accessories

Required accessories for the respective way of mounting

Lintel mounting:

- on the hinge side (pull-side), left-handed version
- on the hinge side (pull-side), right-handed version
- on opposite hinge side (push-side), left-handed version
- on opposite hinge side (push-side), right-handed version

Obligatory accessories

none

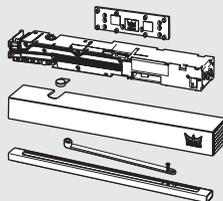
Door-leaf mounting:

- on the hinge side (pull-side), left-handed version
- on the hinge side (pull-side), right-handed version
- on the opposite hinge side (push-side), left-handed version
- on the opposite hinge side (push-side), right-handed version

Cable loop -option Art.-No. 60041401



Standard



When it comes to door-leaf mounting, the power cord has to be protected from crushing.

Option Lintel mounting with projecting arm.

Compulsory for lintel depths beyond 30 mm:

- on the opposite hinge side (push-side), left-handed version
- on the opposite hinge side (push-side), right-handed version

Projecting arm

Lintel depths from 30 to 90 mm



Lintel depths from 90 to 200 mm



On application of the projecting arm, the slide channel is no longer required.

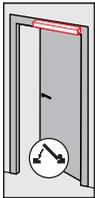
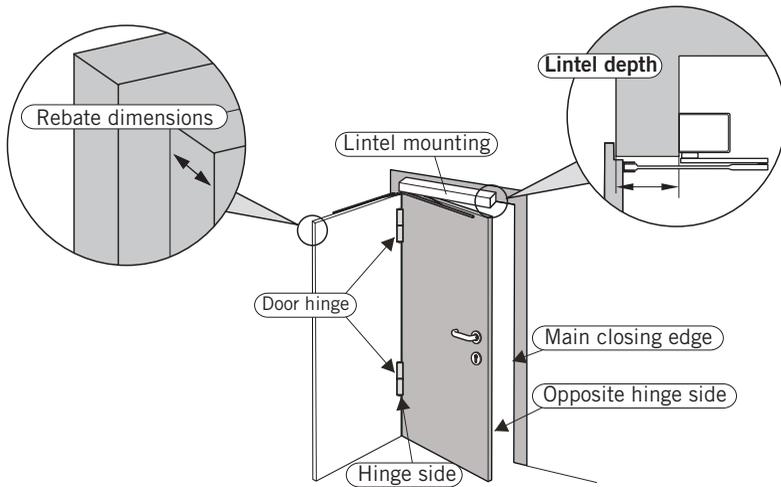
Required tools for the installation of the PORTEO door assistant

- Allen key, 5 mm (Scope of delivery)
- Potentiometer-tool (Scope of delivery)
- Power drill
- Drill bit, depending on surface



Authorised DORMA specialist dealers offer competent advice and the required accessories for the PORTEO door assistant.

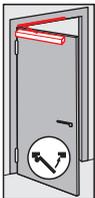
"Door basics" technical terms



Example 1

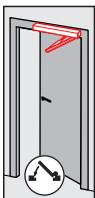
- Lintel mounting on opposite hinge side (push side)
- Left-handed design (right-handed version is laterally reversed)
- **PORTEO door assistant** with slide channel (standard)

A rack & pinion arm has to be applied on the hinge side when it comes to lintel depths of more than 30 mm.



Example 2

- Door leaf mounting on hinge side (pull side)
- Left-handed design (right-handed version is laterally reversed)
- **PORTEO door assistant** with slide channel (standard)



Example 3

- Lintel mounting on opposite hinge side (push side)
- Left-handed design (right-handed version is laterally reversed)
- **PORTEO door assistant** with rack & pinion arm (option)

A rack & pinion arm has to be applied on the hinge side when it comes to lintel depths of more than 30 mm.

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.

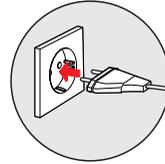
Each setting is learnt automatically during commissioning.

Follow the instructions indicated in the commissioning instructions.

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

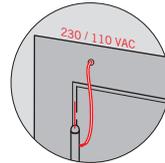
Approach to installation and commissioning

1. **Determine the power connection, either:**
Plug&Go (power connection via power plug)



or

Power supply straight through the wall
page 26.



This connection version may only be performed by a properly qualified company.

2. **Perform the mounting with the aid of the enclosed installation drawings.**
Select the appropriate installation drawing for your way of mounting.

Lintel mounting with
slide channel (standard).

A B C D



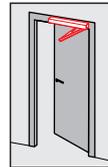
Door leaf mounting with slide channel

E F G H

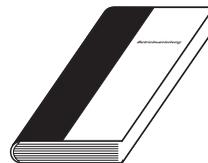


Lintel depth mounting, with projecting arm
(option).

I J



3. **Following the installation, commission the PORTEO door assistant.**
Either with **standard commissioning**, see operating instructions on page 14 and 15 or with **extended commissioning**, see operating instructions on page 16 to 19.

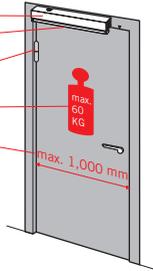


Requirements for standard commissioning

Basic settings

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

- lintel mounting
- with slide channel
- on the hinge side (pull side)
- door weight of up to 60 kg
- door width of up to 1,000 mm



► 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 and admissible maximum weights

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

⚠ 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.

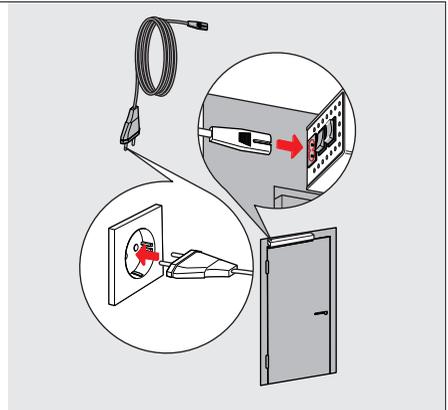
The stored settings can be "overwritten" by a new commissioning procedure.

The "approach" describes the commissioning of the standard system.

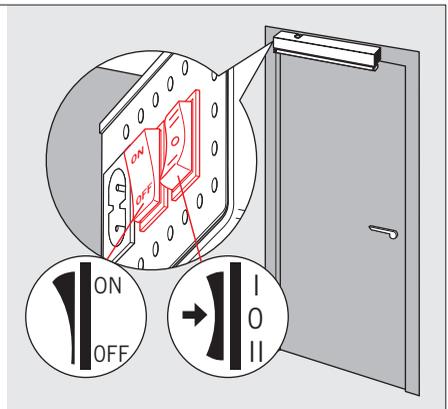
Accessories like for example electric strikes or sensors are adjusted following the successful commissioning of the system.

Standard commissioning

- 1 Close door.
Connect power plug.



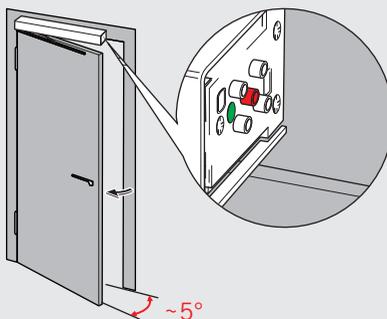
- 2 Set power switch to **"OFF"**.
Set program switch to **"0"** position
(central position).



Standard commissioning

3 Determination of swing direction:

- Open door by approximately 5°.



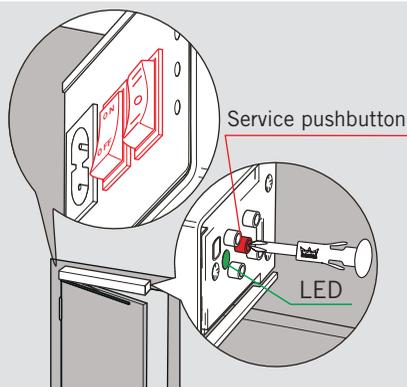
4 Determination of swing direction:

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.



5 Determination of "open" position:

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

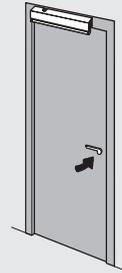
The "approach" describes the commissioning of the **PORTEO door assistant** without any accessory.

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

Extended commissioning

Preparation 1

Close the door.



Preparation 2

Select an arm version:

Set DIP switch to "A" position

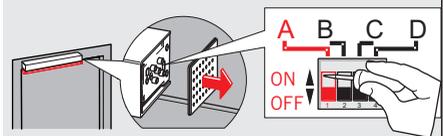
- "ON" = projecting arm
- "OFF" = slide channel

(Set the switch to the correct position with the aid of a small screwdriver.)



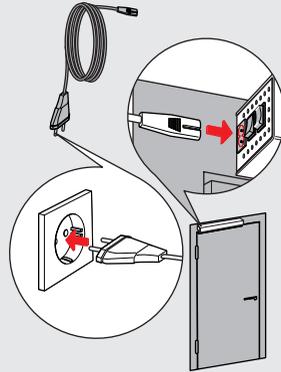
Warning: Following commissioning, the DIP switch "A" has a different function, see page 23 "electric strike".

Always set DIP switches "B", "C" and "D" to "OFF" position.

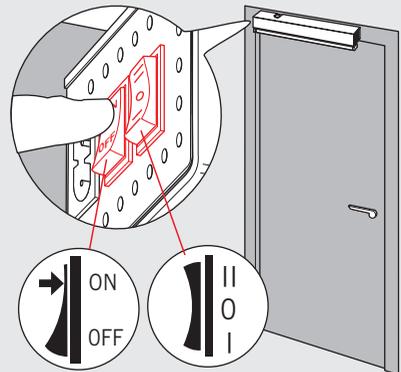


Extended commissioning

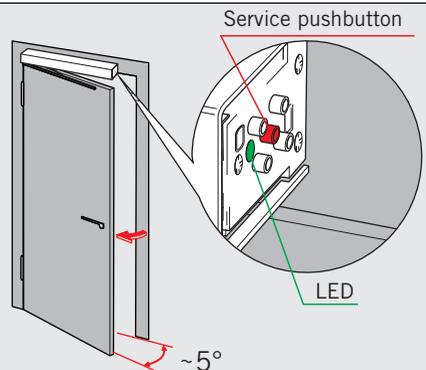
- 1** Connect power plug.



- 2** Set power switch to **"ON"** position.
Set program switch to **"OFF"** position
(central position).
► The LED (green) blinks.



- 3** **Determination of swing direction:**
- Open door by approximately 5°.
► The LED (green) blinks.



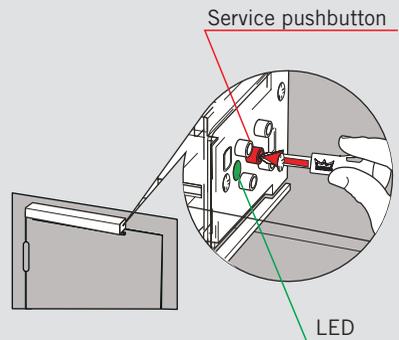
Extended commissioning

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.

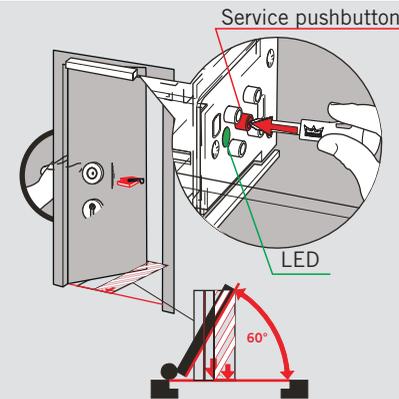
The door travels to "closed" position.



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.

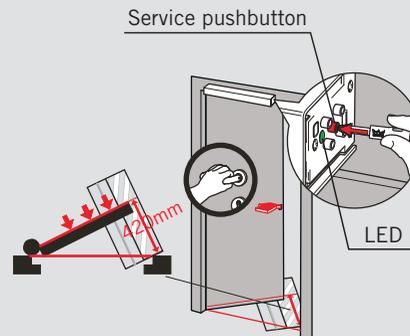
During this procedure the control unit determines and stores the way of mounting and the arm version.



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.

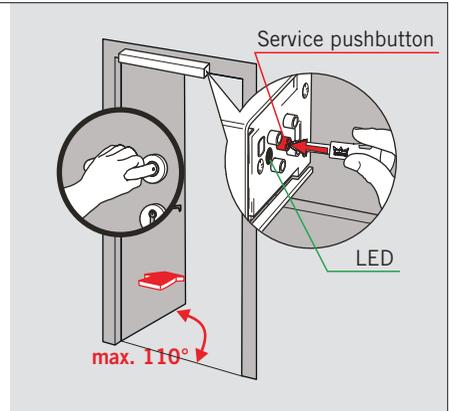


Extended commissioning

7 Determination of "open" position:

- 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.



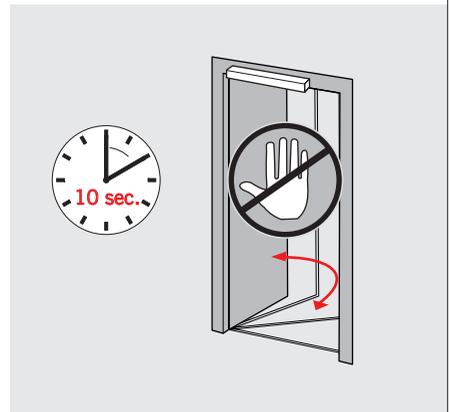
After 10 seconds, the door closes at low speed. An automatic learning cycle starts.



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.

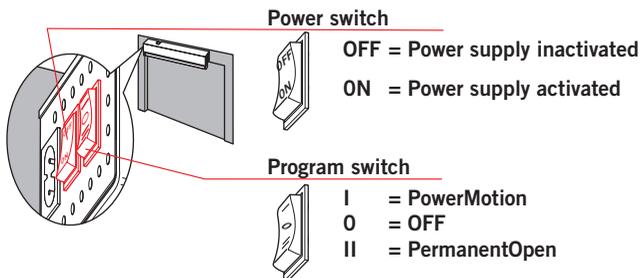


8 Following the commissioning and learning cycle, the PORTEO door assistant is ready for operation. The operating instructions, to follow.

For adjustments like speed, hold-open time or adjustments regarding the optional accessories like for example the electric strike, see **adjustments page 22 and 23**.

Operation

Operating type/functions



Power switch in "ON" position.

Program switch in "0" (OFF) position.



When in "0" 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"



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.

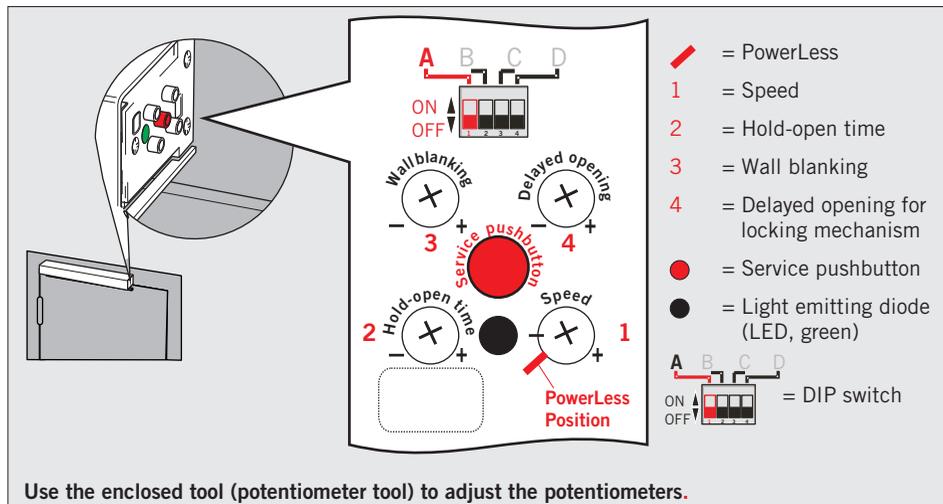
In case the door is pressed against its original driving direction during an opening or closing cycle, the gear is disabled (the door can be operated manually).

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
- Hold-open time
- Speed
- Wall blanking

Adjust the mode of operation "PowerLess"



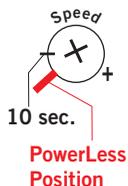
Set power switch in position "ON".

Set program switch in position "I" (PowerMotion).

Turn **potentiometer 1** (speed) to the left as far as possible to "PowerLess" position.

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.

Adjust the speed



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.

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

- = 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** (direct in front of "PowerLess").

Adjustments

Adjust hold-open time



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

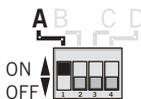
Adjustment for application of an electric strike (optional)



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.

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



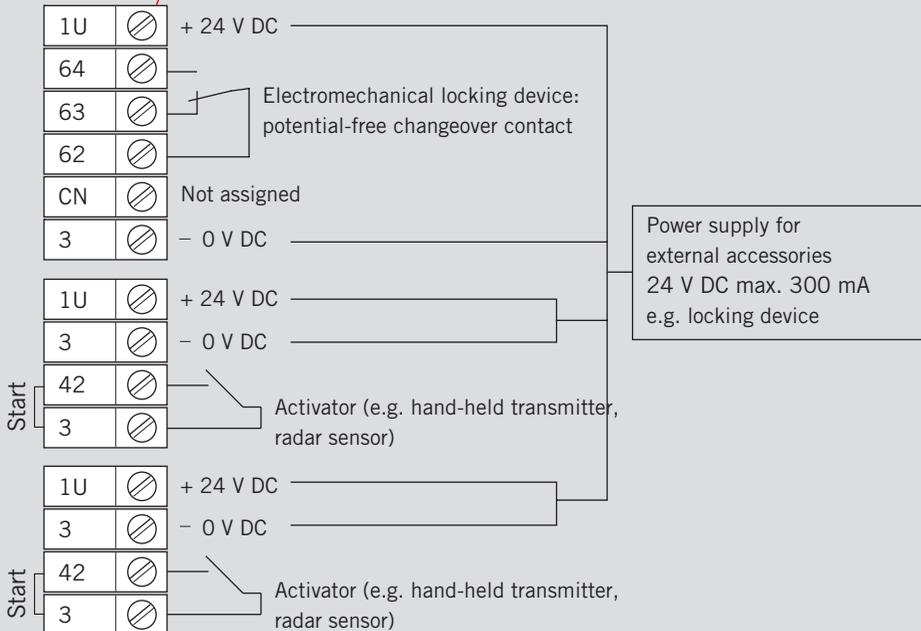
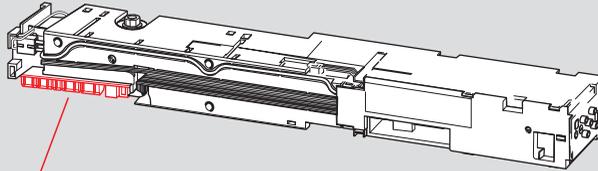
Adjustment of latching action



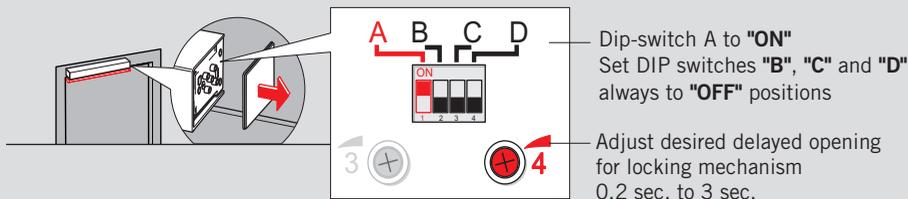
When the electric strike is activated, also the latching action is activated (**DIP switch A** in "ON" position).

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

Connection diagram for connection unit

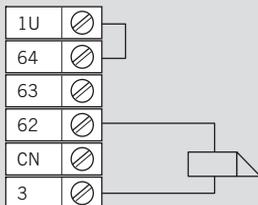


Connection diagram: electric strike



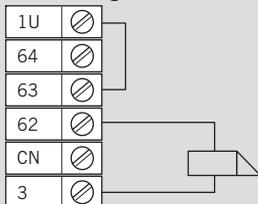
Locking device (fail-secure type) with integrated 24 V DC power supply

FAIL-SECURE DESIGN



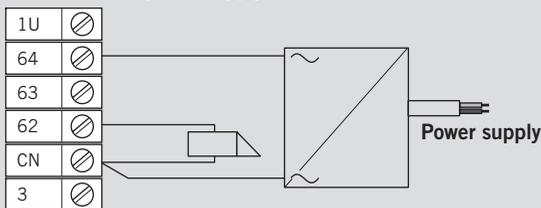
Locking device (fail-secure type) with integrated 24 V DC power supply

FAIL-SAFE DESIGN



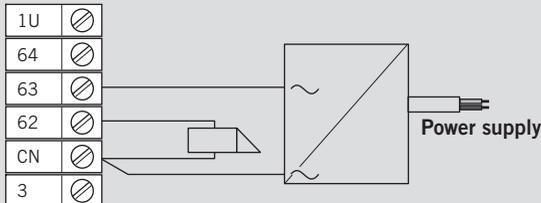
Locking device (fail-secure type) with external power supply

FAIL-SECURE DESIGN



Locking device (fail-secure type) with external power supply 24 V DC

FAIL-SAFE DESIGN



Direct power supply, straight out of the wall

1 Before installation

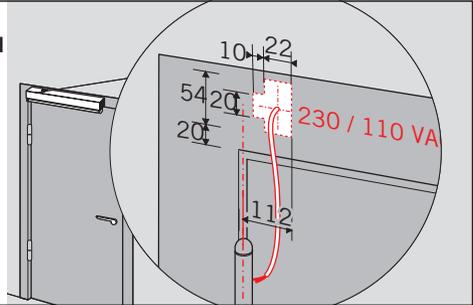
! This connection version may only be performed by a properly qualified company.

Disconnect system from power supply (remove fuse).

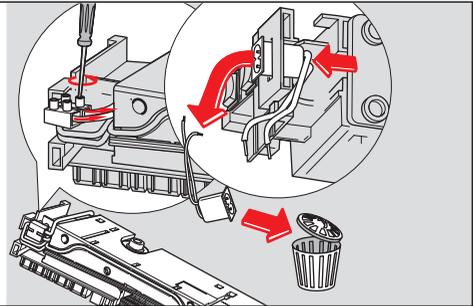
The drawing shows a left-handed installation. The right-handed installation is laterally reversed.

Power supply

The power cord must come out of the wall in the position indicated on the picture (installation of cord by others).

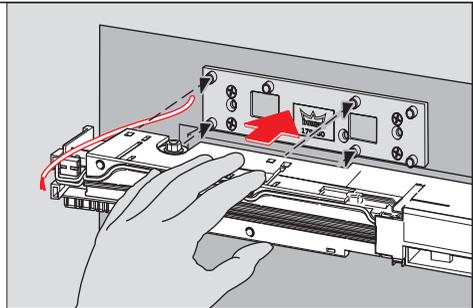


2 Unscrew the cables of the power cord before starting with the installation.



3 Install PORTEO.

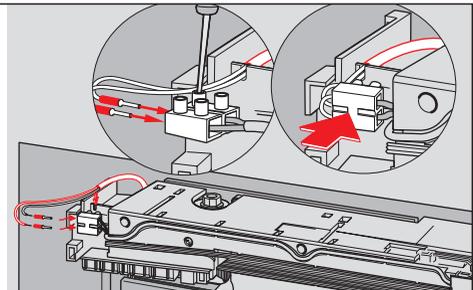
Put the cable into the intended "slot" during the installation.



4 Fit connection bayonets.

Protect the cables with the aid of silicone tubes.

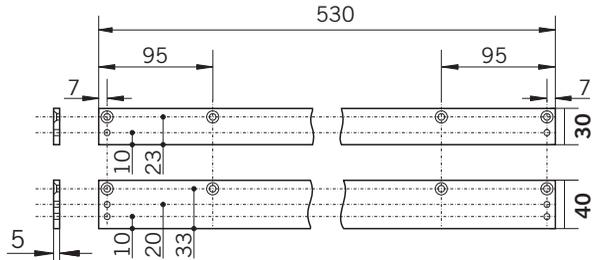
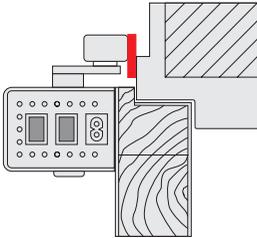
Screw down cables.



Accessories

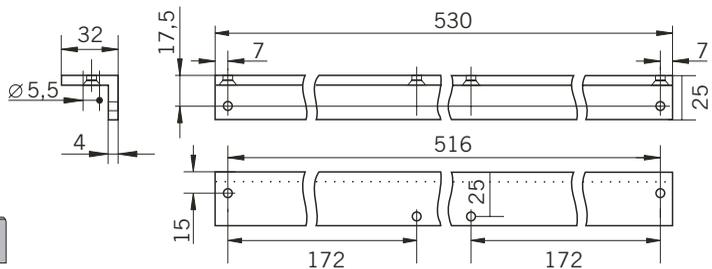
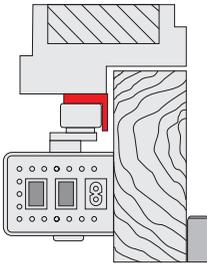
Mounting plates, 30 mm and 40 mm

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



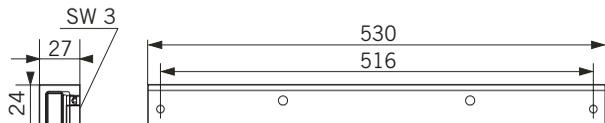
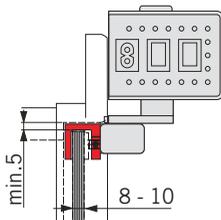
Angle bracket

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 over-rebated 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.



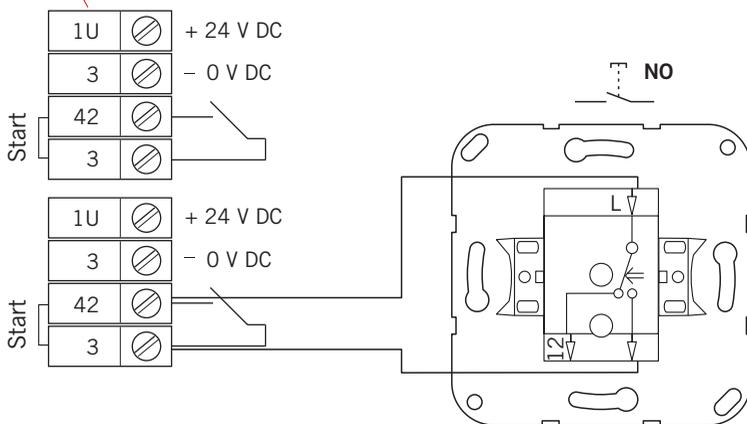
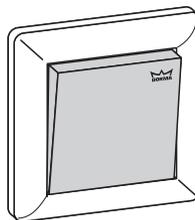
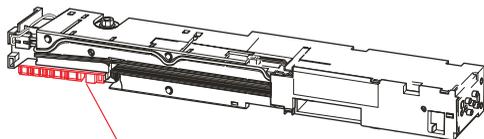
Safety sensors (optional)

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.

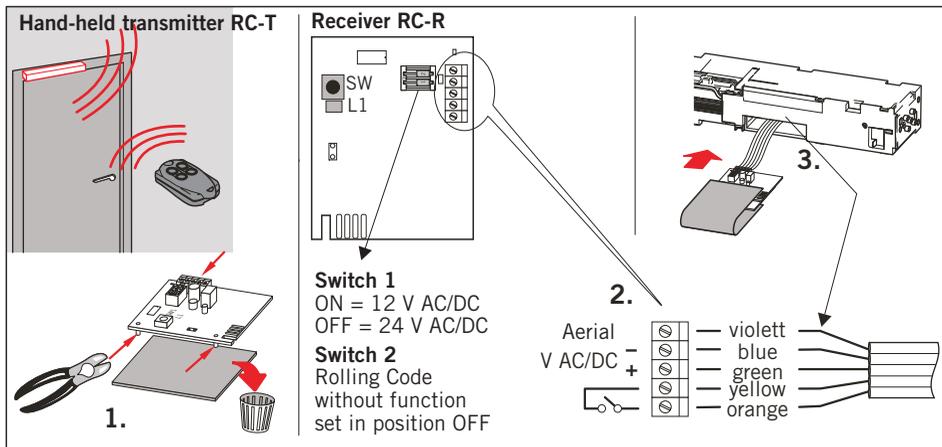
In this case the **PORTEO door assistant** has to be equipped with another connection unit, the **DORMA Comfort Board**.

Please contact your **DORMA specialist dealer** for further information.

Manual release switch DORMA system 55 (option)



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 hand-held 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.

Disabling 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

Commissioning, 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 is off. The door does not respond.	No power supply.	Switch on power switch.
	Loose cable connections.	Connect cable connections thoroughly.
	Damaged cable.	Replace cable.
	The power plug is not connected.	Insert power plug.
	The door assistant is defective.	Replace door assistant.
The LED light indicator illuminates. The door does not respond.	The program switch is set to "0" position (central position).	Set program switch to desired position.
	The program switch is set to "II" position (PermanentOpen).	Set program switch to "I" position.
	PowerLess mode is adjusted.	Adjust PowerLess mode via potentiometer 1. See page 22/23.
	The door was opened via the flip-flop function.	Close door via a new pulse. Press the pushbutton twice in quick succession.
The LED light indicator blinks. The door does not respond.	Defective door assistant.	Replace door assistant.
	The learning cycle has not been performed properly.	Restart learning cycle.
	External malfunctions.	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.
	The electric strike does not open the door.	Set DIP switch A to "ON" position. Check and repair or replace electric strike if required. Check and repair or replace electric connections if required.
The door stops during a cycle.	Defective door assistant.	Replace door assistant.
	The door does not run smoothly.	Check door and driving phase. Remove cause for unsmooth running. Check slide channel for dirt or wear and clean or replace if required.
The door opens beyond the adjusted opening angle.	Obstacle in driving phase of door.	Remove obstacle.
	Opening angle incorrectly adjusted.	Repeat learning cycle.
The door does not reach the adjusted opening angle.	The screws of the slide channel are loose.	Tighten the screws thoroughly.
	Obstacle in driving phase of door.	Remove obstacle.
	Opening angle incorrectly adjusted.	Repeat learning cycle.
The door does not reach the adjusted opening angle.	The screws of the slide channel are loose.	Tighten the screws thoroughly.
	Obstacle in driving phase of door.	Remove obstacle.
The door opens automatically following a closing cycle.	The screws of the slide channel are loose.	Tighten the screws thoroughly.

Troubleshooting instructions

Malfunction	Possible cause	Remedy
The electric strike does not work.	Program switch in position "II" PermanentOpen.	Set program switch in position "I" .
General malfunctions.		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.



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