



# PORTEO 24 V

Product information  
Assembly instruction

Follow the instructions!

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GB

## Contents

<b>CE declaration of conformity</b>	<b>page 4</b>
<b>CE declaration of incorporation</b>	<b>page 5</b>
<b>General informations</b>	<b>page 6 - 11</b>
General safety instructions	page 6 - 9
Standard scope of delivery	page 10
Status on delivery	page 11
<b>Door basics/technical terms</b>	<b>page 12</b>
<b>Functions and adjustments</b>	<b>page 13</b>
- General information	
- Function	
- Adjustments	
<b>Approach to installation and commissioning</b>	<b>page 14</b>
<b>Determine way of mounting, then mount system and commission PORTEO door assistant</b>	
<b>Lintel mounting with slide channel</b>	
- Lintel mounting on the hinge side (pull-side), left-handed version	Installation drawings <b>A</b>
- Lintel mounting on the hinge side (pull-side), right-handed version	Installation drawings <b>B</b>
- Lintel mounting on the opposite hinge side (push-side), left-handed version	Installation drawings <b>C</b>
- Lintel mounting on the opposite hinge side (push-side), right-handed version	Installation drawings <b>D</b>
<b>Door leaf mounting with slide channel</b>	
- Door-leaf mounting on the hinge side (pull-side), left-handed version.	Installation drawings <b>E</b>
- Door-leaf mounting on the hinge side (pull-side), right-handed version	Installation drawings <b>F</b>
- Door-leaf mounting on the opposite hinge side (push-side), left-handed version.	Installation drawings <b>G</b>
- Door-leaf mounting on the opposite hinge side (push-side), right-handed version.	Installation drawings <b>H</b>
<b>OPTIONAL -Lintel mounting with standard arm</b>	
- Lintel mounting on the opposite hinge side (push-side), left-handed version.	Installation drawings <b>I</b>
- Lintel mounting on the opposite hinge side (push-side), right-handed version.	Installation drawings <b>J</b>
<b>Requirements for standard commissioning</b>	<b>page 15</b>
<b>Standard commissioning</b>	<b>page 16 - 17</b>
<b>Extended commissioning</b>	<b>page 18 - 21</b>

## Contents

<b>Operation</b>	<b>page 22 - 23</b>
<b>Main switch</b>	
<b>Program switch -adjustment of operation modes/functions</b>	
- Operation mode <b>OFF</b>	
- Operation mode <b>PowerMotion</b>	
- Operation mode <b>Permanent Open</b>	
<b>Permanent Open</b> with flip-flop-function (pushbutton -optional)	
- Operation mode/function <b>PowerLess</b>	
- Operation mode/function <b>Push&amp;Go</b>	
- Obstacle recognition	
- Vandalism mode	
- Latching action	
<b>Adjustments</b>	<b>page 24 - 25</b>
- Adjustment of operation mode <b>PowerLess</b>	
- Adjustment of speed	
- Adjustment of hold-open time	
- Adjustment of wall blanking (optional, only with Comfort Board)	
- Adjustment of delayed opening for locking mechanism via DIP switch and potentiometer	
- Adjustment for application of an electric strike (optional)	
- Adjustment of latching action	
<b>Connection diagram for connection unit</b>	<b>page 26</b>
<b>Connection diagram for electric strike (optional)</b>	<b>page 27</b>
<b>24 V DC connection, straight out of the wall</b>	<b>page 28</b>
<b>Accessories (optional)</b>	<b>page 29 - 30</b>
<b>Hand-held transmitter RC-T</b>	<b>page 31 - 32</b>
<b>Commissioning, care, maintenance</b>	<b>page 33</b>
<b>Troubleshooting instructions</b>	<b>page 34 - 35</b>

**DORMA GmbH + Co. KG**  
**DORMA Platz 1**  
**58256 Ennepetal**  
**Germany**

als verantwortlicher Hersteller des / as the responsible manufacturer for the / en tant que fabricant responsable de la

**Türassistenten / Drehflügeltürantriebs**  
**PORTEO**

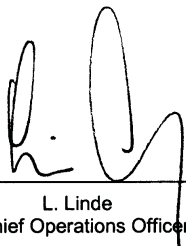
erklärt hiermit die Übereinstimmung der, nach oben genannter Bauart gefertigten, Anlagen mit den einschlägigen Bestimmungen folgender Richtlinien des Europäischen Parlaments und des Rates / hereby confirms that products/systems corresponding to the above type of construction comply with all the relevant requirements of the following directives of the European Parliament and of the Council / déclare par la présente la concordance des installations, fabriquées suivant le mode de construction mentionné ci-dessus, avec les dispositions pertinentes de sécurité des Directives du Parlement Européen et du Conseil:

- |                                     |                    |  |
|-------------------------------------|--------------------|--|
| <input checked="" type="checkbox"/> | 2006/95/EG         | Niederspannungsrichtlinie / Low Voltage Directive / Directive basse tension                          |
| <input type="checkbox"/>            | 89/106/EWG/EEC/CEE | Bauprodukte / Building products / Produits de construction   |
| <input checked="" type="checkbox"/> | 2004/108/EG        | Elektromagnetische Verträglichkeit / Electromagnetic compatibility / Compatibilité électromagnétique |
| <input type="checkbox"/>            | 2006/42/EG         | Maschinenrichtlinie / Machinery directive / Directive machine  |

Die technischen Unterlagen sind erhältlich beim Manager Product Compliance unter: / the technical documentation can be obtained from the Manager Product Compliance at / les documents techniques peuvent être obtenus du Manager Product Compliance sous: [product.compliance@dorma.com](mailto:product.compliance@dorma.com)

Es wurden die produktrelevanten Abschnitte der folgenden Normen und Bestimmungen angewandt / In view of the relevant paragraphs for the product, this declaration is based on the following applied standards and rules / En tenant compte des paragraphes relatives aux produits, cette déclaration est basée sur les suivantes normes et dispositions appliquées:

- |  |  |  |                                  |
|--|--|--|----------------------------------|
| Harmonisierte europäische Norm,<br>nationale Regel /   | <input checked="" type="checkbox"/> EN 13849-1       | <input checked="" type="checkbox"/> EN 61000 - 3 - 2 | <input type="checkbox"/> EN 1154 |
| Harmonized European standards,<br>national rule /      | <input checked="" type="checkbox"/> EN ISO 14121-1   | <input checked="" type="checkbox"/> EN 61000 - 3 - 3 | <input type="checkbox"/> EN 1155 |
| Norme européenne harmonisée,<br>disposition nationale: | <input checked="" type="checkbox"/> EN ISO 12100-1   | <input type="checkbox"/> EN 55014                    | <input type="checkbox"/> EN 1158 |
|  | <input type="checkbox"/> EN ISO 12100-2              | <input checked="" type="checkbox"/> EN 55022         | <input type="checkbox"/> EN 1125 |
|  | <input checked="" type="checkbox"/> BGR 232          | <input checked="" type="checkbox"/> EN 60335 - 1     | <input type="checkbox"/> EN 179  |
|  | <input checked="" type="checkbox"/> EN 61000 - 6 - 2 | <input type="checkbox"/> EN 60950 - 1                | <input type="checkbox"/>         |
|  | <input checked="" type="checkbox"/> EN 61000 - 6 - 3 | <input type="checkbox"/>                             | <input type="checkbox"/>         |



L. Linde  
Chief Operations Officer



Ennepetal, 03.08.09

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**DORMA GmbH + Co. KG**  
**DORMA Platz 1**  
**58256 Ennepetal**  
**Germany**

erklärt hiermit, dass die unvollständige Maschine / hereby confirms that the partly completed machinery / déclare par la présente que la quasi-machine

**Türassistent / Drehflügeltürantrieb**  
**PORTEO**

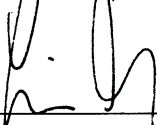
den folgenden grundlegenden Anforderungen der Maschinenrichtlinie (2006/42/EG; 98/37/EG<sup>1</sup>) entspricht Anhang I, Artikel: / complies with the following essential regulations of the machinery directive (2006/42/EG; 98/37/EG<sup>1</sup>) Annex I, Article: / est conforme à toutes les exigences fondamentales de la Directive Machines (2006/42/EG; 98/37/EG<sup>1</sup>) / Annexe I, Article: 1.1.3, 1.1.5, 1.2.1, 1.2.3, 1.2.5, 1.2.6, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.3.7, 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

Die unvollständige Maschine entspricht weiterhin allen relevanten Bestimmungen der Richtlinien 2006/95/EG und 2004/108/EG. / The partly completed machinery also complies with all relevant requirements of the Directives 2006/95/EG and 2004/108/EG. / La quasi-machine satisfait aussi aux dispositions pertinentes des Directives 2006/95/EG et 2004/108/EG.

Sie darf in automatischen Türanlagen gemäß der Maschinenrichtlinie eingebaut und betrieben werden, wenn der Hersteller der Anlage sicherstellt, dass alle Anforderungen, die sich aus der Maschinenrichtlinie ergeben, eingehalten werden, sowie eine EG Konformitätserklärung ausstellt. / It may be incorporated and operated in automatic doors systems in accordance with the machinery directive, provided that the manufacturer of the doors system ensures compliance with all requirements emanating from that Directive, and duly issues an EC Declaration of Conformity. / Elle peut être intégrée et utilisée dans les systèmes de portes automatiques conformes à la Directive Machines, si le fabricant du système garantit que toutes les exigences de la Directive Machines sont respectées, et s'il établit une Déclaration CE de Conformité.

Die speziellen technischen Unterlagen wurden erstellt und sind erhältlich beim Manager Product Compliance: / The relevant technical documentation has been compiled and can be obtained from the Manager Product Compliance: / La documentation technique pertinente a été constituée et peut être obtenue du Manager Product Compliance: [product.compliance@dorma.com](mailto:product.compliance@dorma.com).

Sie werden einzelstaatlichen Stellen auf begründetes Verlangen elektronisch übermittelt. / In response to reasoned request by national authorities it will be transmitted electronically. / À la suite d'une demande dûment motivée des autorités nationales, les informations pertinentes seront transmises par message électronique.



L. Linde  
 Chief Operations Officer



Ennepetal, 03.08.09

Reg.-Nr.: CE\_H\_0020A

<sup>1</sup> Richtlinie 98/37/EG gilt bis zum 28.12.09 / Directive 98/37/EG is valid up to 28.12.09 / Directive 98/37/EG est en vigueur d'ici le 28.12.09. Richtlinie 2006/42/EG gilt ab dem 29.12.09 / Directive 2006/42/EG is valid from 29.12.09 / Directive 2006/42/EG est en vigueur à partir du 29.12.09

## 1. For your safety

This documentation contains important information regarding the mounting and the safe operation of the door system.

Please read these instructions carefully before using the **PORTEO**.

**It is important for your personal safety to abide by all enclosed instructions.**

An incorrectly performed installation might cause serious injuries.

Using control elements, making adjustments or performing procedures that are not described in this documentation might cause electric shocks, danger caused by electric voltage/current and/or danger due to mechanical incidents.

Please keep these documents for further reference and hand them over to the person in charge in case the system is transferred to another party.

### Explanation of symbols



#### NOTE

This symbol underlines important information that may facilitate your work.



#### REMARK

This symbol warns you of possible system damage and explains how to avoid this damage.



#### WARNING

This symbol indicates dangers that might cause personal or material damage or even kill people.

### Intended application

As electromechanical operator, the **PORTEO** is only designed to open and close interior swing doors with an admissible door-leaf weight up to 125 kg.

The **PORTEO** is neither suitable for application in escape routes, nor at fire doors (fire and smoke doors) nor at exterior doors.

The maximum cable length for external components must not exceed 30 m.

The system is connected to the door leaf via slide channel or standard arm.

### Limitation of liability

The **PORTEO** may only be used according to its specified intended application. Eigenmächtige The **DORMA GmnH + Co. KG** will not accept any liability for damage resulting from unauthorised modifications of the **PORTEO**

Furthermore components/accessories that have not been approved by DORMA are exempted from liability.

### Safety instructions



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

- Do not allow children to play with the **PORTEO** or its adjustment and control devices.
- Keep remote controls out of reach of children.
- Never stick metal objects into the openings of the **PORTEO**; otherwise you might sustain an electric shock.
- If the **PORTEO** is mounted onto a metal door leaf, you have to earth (ground) the door leaf properly.
- Glass door leaves have to be made of safety glass.

### Important technical data

- Weight of **PORTEO** 3,2 kg
- Power supply 24V DC ( $\pm$  15%)
- Fuse (by others) 6 A

Operating noise < 70 dB(A)

## Standards, laws, codes and regulations

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

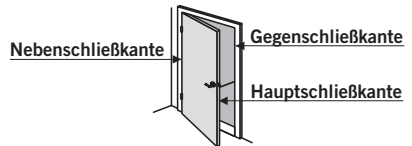
### DIN 18650 (German Industrial Standard)

During the planning of the door system, the manufacturer (the person installing the system) and the commissioner/facility operator have to perform an individual risk assessment (together).

Please refer to our homepage [www.dorma.com](http://www.dorma.com) and consider the provided “risk assessment form” under **PRODUCT** for further assistance when performing your individual risk assessment.

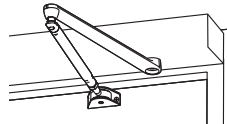
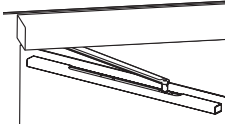
### Dangers at closing edges

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



### Dangers caused by slide channel and arm

**The slide channel and the arm might cause hazards by crushing and shearing.**



### Residual risk

Depending on the structural conditions, the prevailing door version and the available safety equipment, residual risks such as crushing and hitting (with a limited force) cannot be excluded. All people using a door are generally aware of the danger spot at the secondary closing edge of every swing 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 (like a rubber or textile cover) is available in the specialised trade and not part of the scope of delivery.

### Low-energy product

The **PORTEO** meets the requirements of a low-energy application in accordance with the German DIN 18650 (industrial standard).

- Reduced dynamic force at door leaf and reduced contact force via low driving speed.
- Reduced static force at door leaf and reduced contact force via force limitation.

The door system does not compulsorily require additional safety equipment.

The application of safety sensors at the main closing edge and the secondary closing edges as additional safety equipment is optional and lies in the discretion of the person performing the installation of the door system - under consideration of the result of the individual risk assessment.

### Risk assessment on the part of the installer

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

Thus the manufacturer, i.e. the installer of the system, has to perform an individual risk assessment during the planning of the door system in order to decide whether additional safety equipment is required or not.

Please refer to our homepage [www.dorma.com](http://www.dorma.com) and consider the provided “risk assessment form” under **PRODUCT** for further assistance when performing your individual 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 with the aid of appropriate safety equipment (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.

### Recycling and disposal

Both the **PORTEO** and its packing mainly consist of recyclable raw material.

The **PORTEO** and the respective accessories must not be disposed of as domestic waste.

Please ensure that the old appliance and the respective accessories (if available) are properly disposed of.



Please abide by the prevailing national statutory provisions.

### Safety during mounting

- The working area has to be secured against unauthorised access from other people. Falling items or tools might cause injuries.
- The **PORTEO** has to be secured against water and other liquids.
- In any case, the way of mounting and the mounting equipment, like for example screws and wall plugs, have to be adequate with regard to the structural conditions (steel structure, wood, concrete etc.).
- Before installing the **PORTEO** the door leaf has to be checked with respect to proper mechanical condition and smooth running.
- The mounting of the **PORTEO** described herein is only an example. Structural or local conditions, available tools or other conditions might suggest a different approach.
- Following the successful installation of the system, the settings and the proper function of the **PORTEO** and the safety equipment have to be checked.
  - Only specially qualified staff may open the power supply housing.
- Disconnect the **PORTEO** from power supply (de-energise the system) before removing the cover of the power supply housing. Remove mains plug or switch off fuse (with permanent power supply).
- Always pull at the plug and never at the cable when unplugging the power supply.

### Safety during commissioning

- The protective earth conductor has to be connected.
- The safety sensors are to be connected (see commissioning instructions).
- Separately supplied components such as the program switch, the EMERGENCY OFF pushbutton and activators (radar motion detectors, NIGHT-/BANK key switches) have to be mounted and connected.
- Ensure that the door leaves run smoothly
- The operator and the door leaf must be properly linked.

### Inspection and system approval

Before the first commissioning and depending on requirements, however, at least once a year, the **PORTEO** has to be inspected by a properly qualified technician and serviced if required.

A person trained by DORMA has to perform the inspection and approve the system with the aid of the inspection book.

The respective results have to be documented in accordance with DIN 18650-2 and the facility operator has to keep these documents for at least one year.

**We would recommend taking out a maintenance agreement with DORMA.**



### Briefing:

Following the adjustment, commissioning and functional testing of the door system, the operating instructions have to be handed over to the facility operator and a briefing has to be made.

### Maintenance

The system has to be de-energised (disconnected from power supply) before performing any kind of maintenance work. Remove the power plug or switch off the fuse (with permanent power supply).

Please consider the leaflet regarding the application of hold-open devices for further information and instructions regarding the application of the **PORTEO** at fire and smoke doors.

We would recommend taking out a maintenance agreement with **DORMA**.

### Care

The system has to be de-energised (disconnected from power supply) before cleaning the system. Remove the power plug or switch off the fuse (with permanent power supply).

You may clean the **PORTEO** with a damp cloth and standard commercial detergents.

You should not use scouring agents for cleaning purposes as they might damage the surface finish.

Ensure that no water or other liquids drop on or into the **PORTEO**

Never stick metal objects into the openings of the **PORTEO** otherwise you might sustain an electric shock.

### Wear




The slide piece has to be inspected at regular intervals (every year) and replaced if required.

Only use original spare parts.

#### PORTEO -certified safety



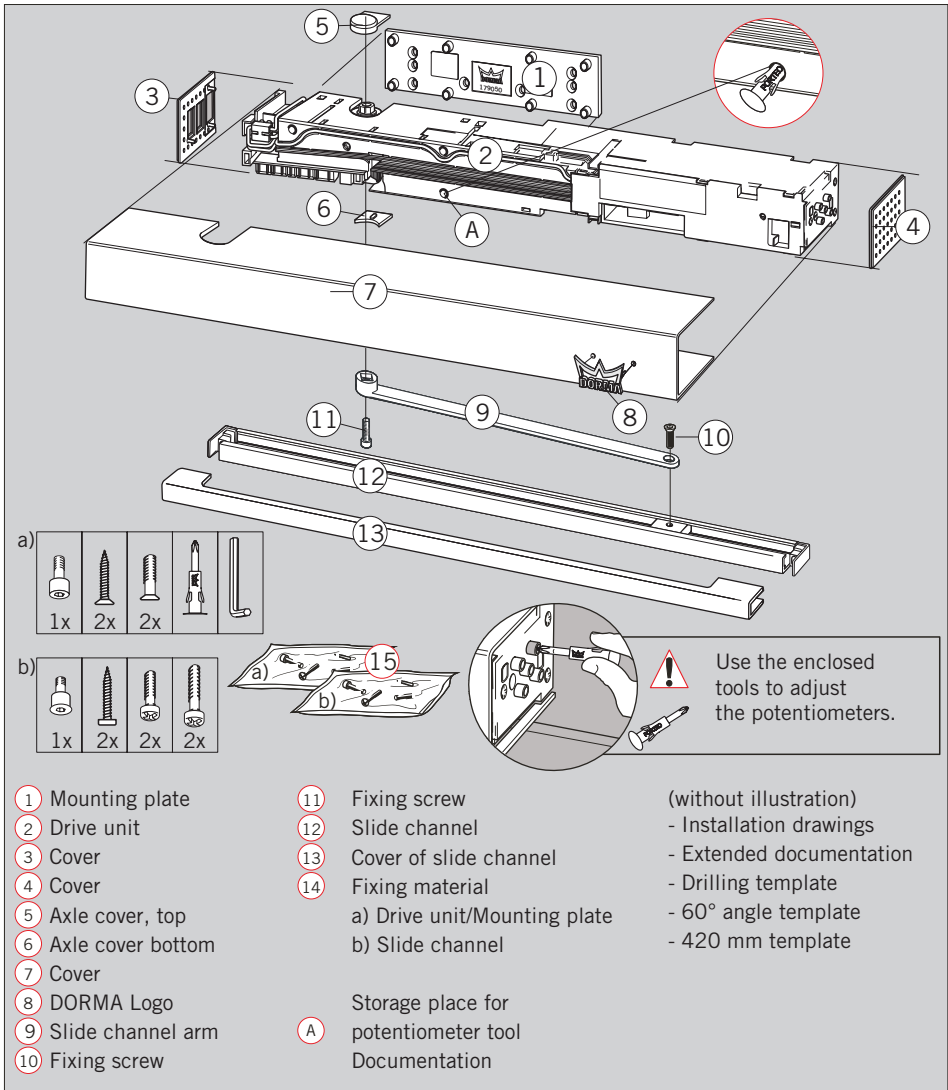
Developed according to the latest safety standards:

- + "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.





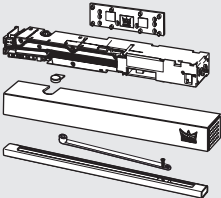

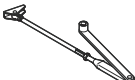

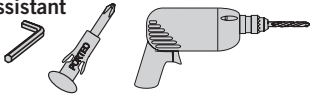
## Standard scope of delivery



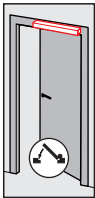
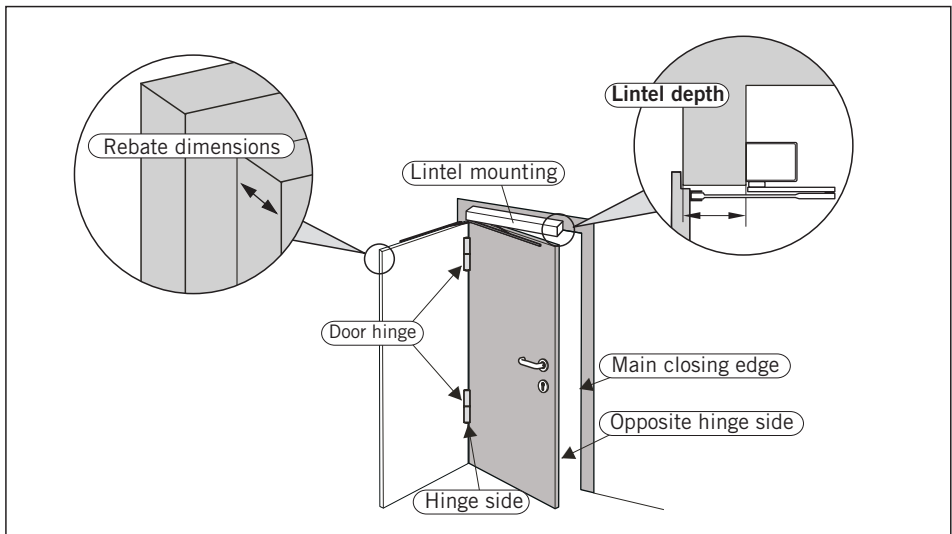
### Status on delivery:

A smoothed DC power supply at 24 V DC,  $\pm 15\%$ , 4 A with an electronic circuit breaker,  $I_n = 6$  A, must be available. The device has to be provided with safety extra low voltage. All electrical connections have to be realised by others.

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

Required accessories for the respective way of mounting	
<p><b>Lintel mounting:</b></p> <ul style="list-style-type: none"> <li>- on the hinge side (pull-side), left-handed version</li> <li>- on the hinge side (pull-side), right-handed version</li> <li>- on opposite hinge side (push-side), left-handed version</li> <li>- on opposite hinge side (push-side), right-handed version</li> </ul>	<p><b>Obligatory accessories</b></p> <p>none</p>
<p><b>Door-leaf mounting:</b></p> <ul style="list-style-type: none"> <li>- on the hinge side (pull-side), left-handed version</li> <li>- on the hinge side (pull-side), right-handed version</li> <li>- on the opposite hinge side (push-side), left-handed version</li> <li>- on the opposite hinge side (push-side), right-handed version</li> </ul>	<p><b>Cable loop -option</b> Art.-No. 60041401</p> 
<p>When it comes to door-leaf mounting, the power cord has to be protected from crushing.</p> 	<p><b>Standard</b></p> 
<p><b>Option Lintel mounting with projecting arm.</b> <b>Compulsory for lintel depths beyond 30 mm:</b></p> <ul style="list-style-type: none"> <li>- on the opposite hinge side (push-side), left-handed version</li> <li>- on the opposite hinge side (push-side), right-handed version</li> </ul>	<p><b>Projecting arm</b></p> <p>Lintel depths from 30 to 90 mm</p>  <p>Lintel depths from 90 to 200 mm</p>  <p>Please ask for our template WN-No.: 057193-45532</p>
<p>On application of the projecting arm, the slide channel is no longer required.</p> 	<p><b>Required tools for the installation of the PORTEO door assistant</b></p> <ul style="list-style-type: none"> <li>- Allen key, 5 mm (Scope of delivery)</li> <li>- Potentiometer-tool (Scope of delivery)</li> <li>- Power drill</li> <li>- Drill bit, depending on surface</li> </ul> 
<p><b>Authorised DORMA specialist dealers offer competent advice and the required accessories for the PORTEO door assistant.</b></p>	

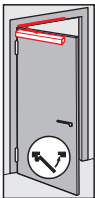
## "Door basics" technical terms



### Example 1

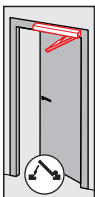
- Lintel mounting on opposite hinge side (push side)
- Left-handed design (right-handed version is laterally reversed)
- **PORTEO door assistant** with slide channel (standard)

**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 (option) 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 16 to 21.

### 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 12)
- 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.

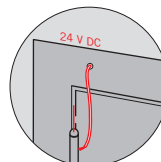
- **Standard commissioning** see page 16 and 17.
- **Extended commissioning** see page 18 to 21.

## Approach to installation and commissioning

1. 24V DC connection straight through the wall page 28.



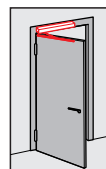
This connection version may only be performed by a properly qualified company.



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

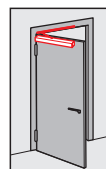
Lintel mounting with slide channel (standard).

**A B C D**



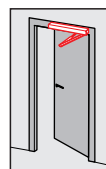
Door leaf mounting with slide channel

**E F G H**



Lintel depth mounting, with projecting arm (option).

**I J**



3. **Following the installation, commission the PORTEO door assistant.**

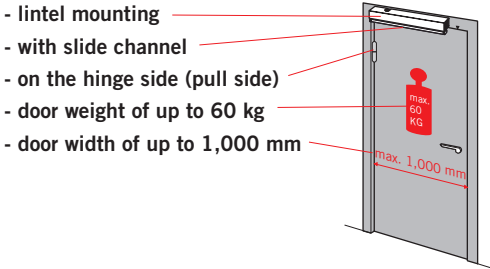
Either with **standard commissioning**, see operating instructions on page 16 and 17 or with **extended commissioning**, see operating instructions on page 16 to 21.



## 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 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 system has been connected to the DC power supply.
- 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.

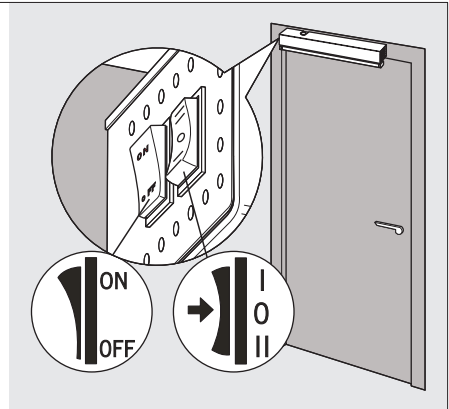
The stored settings can be "overwritten" by a new commissioning procedure.

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 Set main switch to "**OFF**".  
Set program switch to "**O**" position  
(central position).

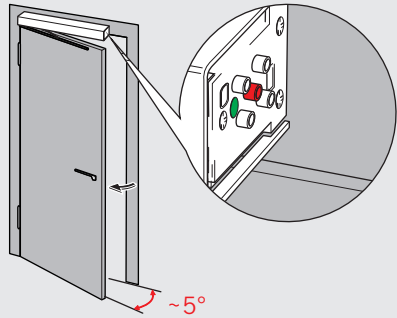




## Standard commissioning

### 2 Determination of swing direction:

- Open door by approximately 5°.



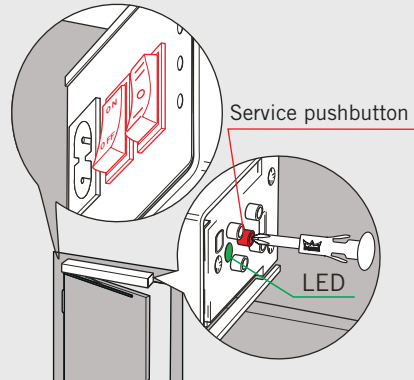
### 3 Determination of swing direction:

#### 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.



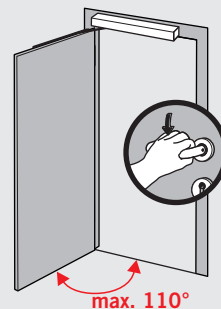
### 4 Determination of "open" position:

- 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.



### 5 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 24 and 25**.

## Extended commissioning

When it comes to deviations from the basic values of the original settings (see page 15), 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.

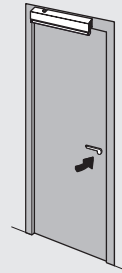
The "approach" describes the commissioning of the **PORTEO door assistant** without any accessory.

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

## Extended commissioning

### Preparation 1

Close the door.



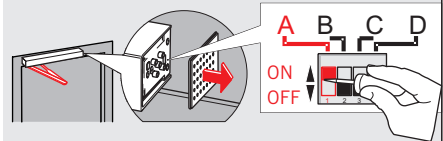
### Preparation 2

#### Select an arm version:

Set DIP switch to "A" position

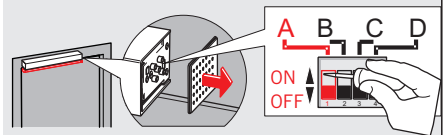
- "ON" = projecting arm
- "OFF" = slide channel

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



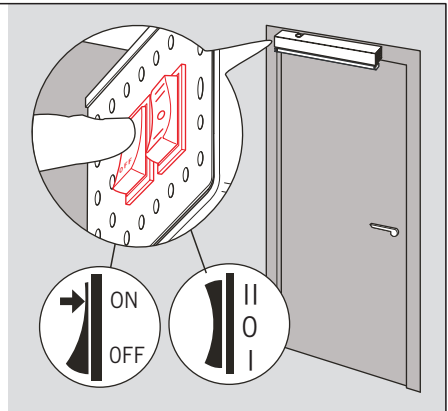
**Following commissioning, the DIP switch "A" has a different function, see page 25 "adjustment of latching action".**

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

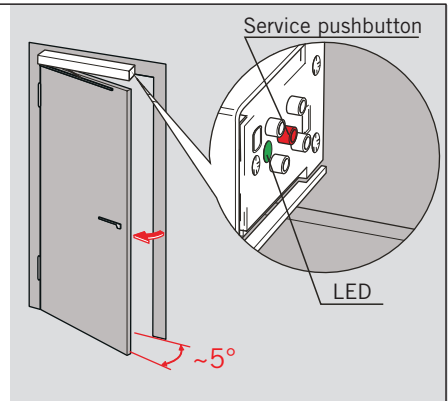


## Extended commissioning

- 1** Close the door.  
Set main switch to **"ON"** position.  
Set program switch to **"OFF"** position  
(central position).  
The LED (green) blinks.



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



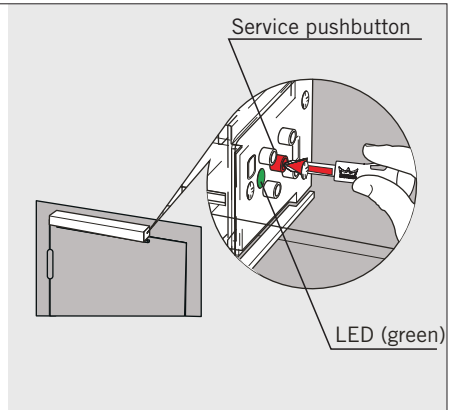
## Extended commissioning

### 3 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.**

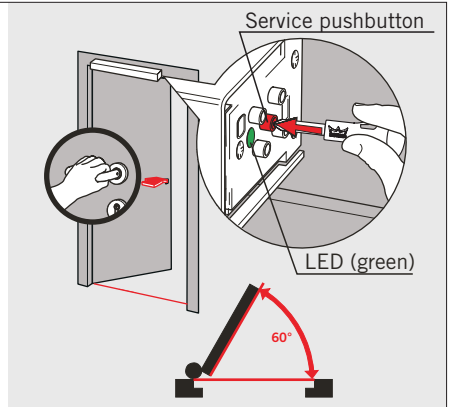
The door travels to "closed" position.



### 4 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.

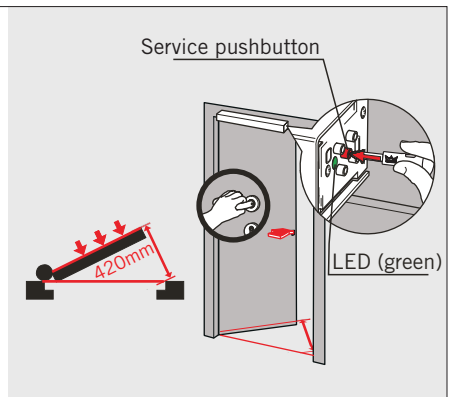
**During this procedure the control unit determines and stores the way of mounting and the arm version.**



### 5 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.**

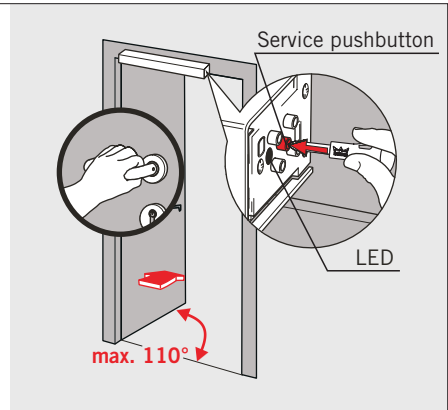


## Extended commissioning

### 6 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**.



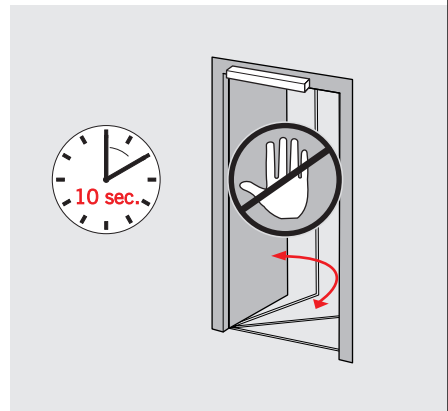
After 10 seconds, the door closes at low speed. An automatic learning cycle starts.



**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.

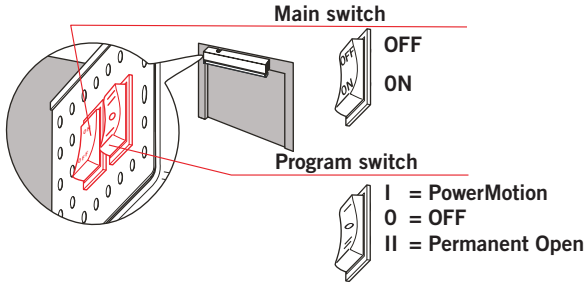


### 7 Following the commissioning and learning cycle, the PORTEO door assistant is ready for operation. The operating instructions, to follow.

For adjustments like speed, hold-open time or adjustments regarding the optional accessories like for example the electric strike, see **adjustments page 24 and 25**.

## Operation

### Operating type/functions



Main 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.

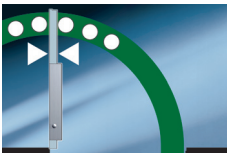
- When an opening pulse is triggered the door opens automatically and closes automatically on expiry of the preset hold-open time (5 sec. to 30 sec.).

**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"



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 24 and 25.

### 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 runs against an obstacle before it has reached its „open“ position (3x), it will reverse and move to its „closed“ position. This procedure is repeated whenever an opening pulse is triggered until the obstruction has been removed.

##### 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 repeated three times, then the door stops at the obstacle and remains in this position. As soon as the door is pushed manually in opening or closing direction by approx. 3°, the door will move automatically in the desired direction.

#### 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.

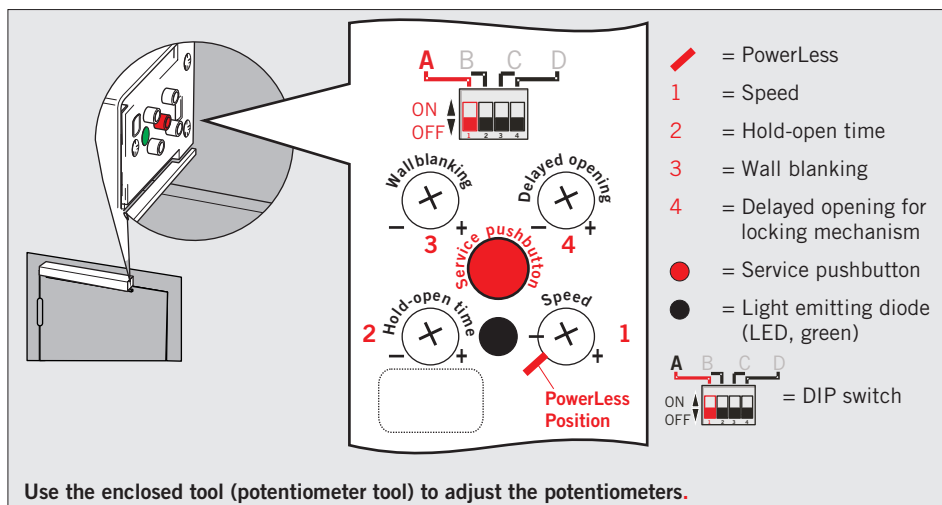
#### Latching action

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 25.

#### Blocking recognition

If an opening signal is triggered while the door is locked, the door will try to perform an opening cycle (1x) and then switch off. In case a further opening signal is triggered, the system will ignore it for 5 seconds and then repeat the above-mentioned procedure. As soon as the door is pushed manually in opening direction, it will continue its cycle in the desired direction and the adjusted operation mode.

## Adjustments



Use the enclosed tool (potentiometer tool) to adjust the potentiometers.

### 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"



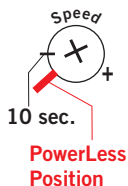
Set power switch in position "ON".

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)

#### Adjustment of delayed opening for locking mechanism



Adjust the delayed opening for the locking mechanism via **potentiometer 4**.

The delayed opening for the locking mechanism is adjustable between approx. 0.2 and 3 seconds.

- = delayed opening for locking mechanism of 0.2 sec.

+ = delayed opening for locking mechanism of 3 sec.

### Adjustment of latching action.

Following the successful commissioning of the system, DIP switch A is assigned with another function. Use DIP switch A to adjust the latching action following the commissioning of the system. This does not have an influence on the previous adjustments (arm versions).



1. Adjust DIP switch to A.

- The latching action is now deactivated.

- The door closes softly and remains in "closed" position.

- Suitable for light doors.

2. Adjust DIP switch to A.

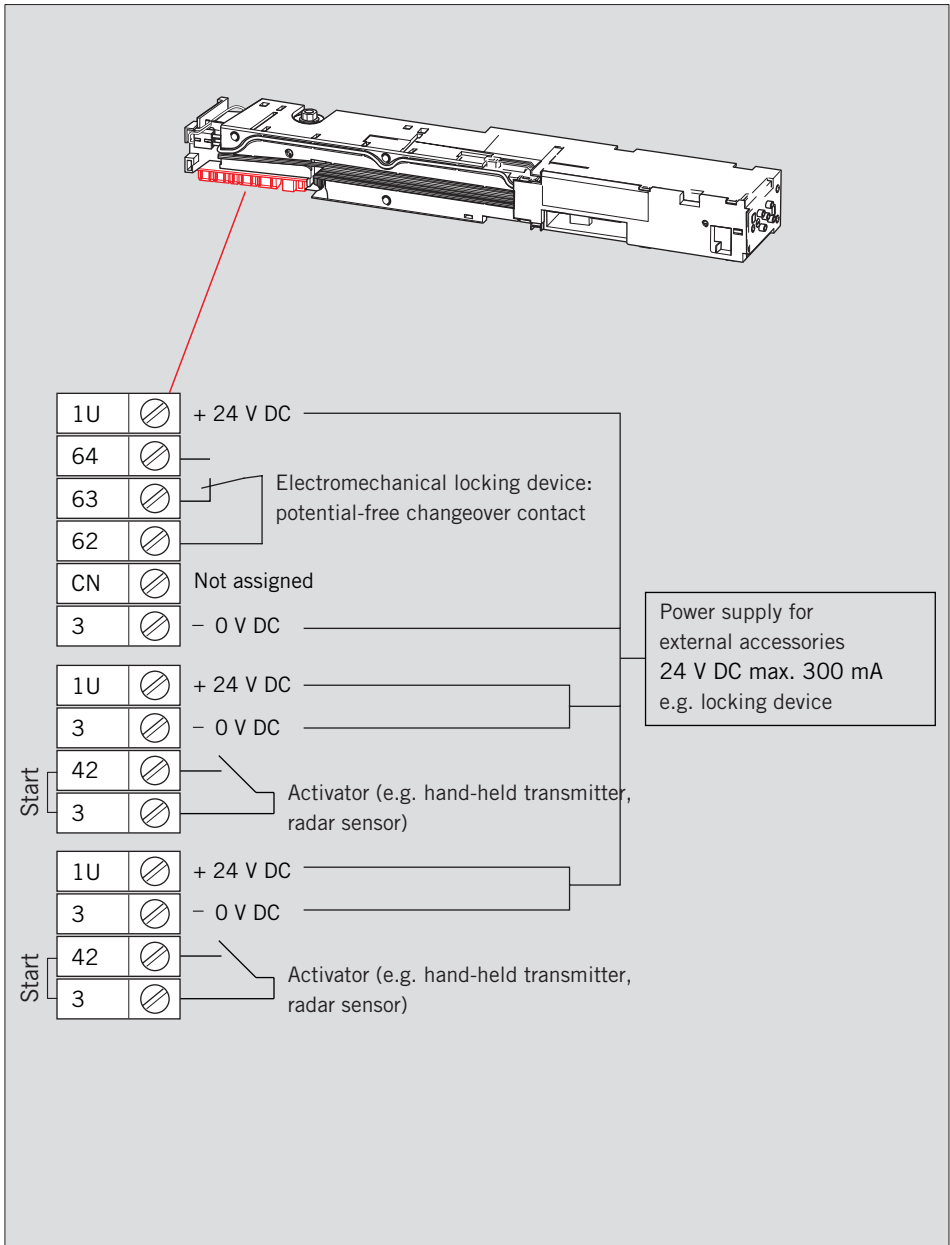
- The latching action is now activated.

- The door is accelerated at the last few degrees before the door reaches its "closed" position.

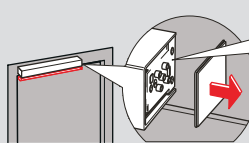
- The door is no longer pushed shut while closed.

- Suitable for doors that are subject to high resistance forces.

## Connection diagram for connection unit



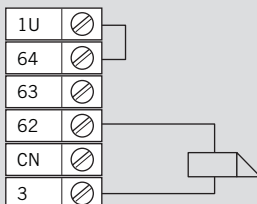
## Connection diagram: electric strike



Adjust desired delayed opening for locking mechanism  
0.2 sec. to 3 sec.

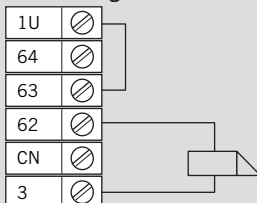
### Locking device (fail-secure type) with integrated 24 V DC power supply

FAIL-SECURE DESIGN



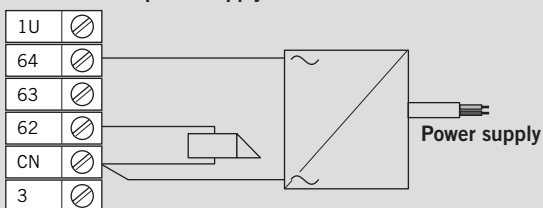
### Locking device (fail-secure type) with integrated 24 V DC power supply

FAIL-SAFE DESIGN



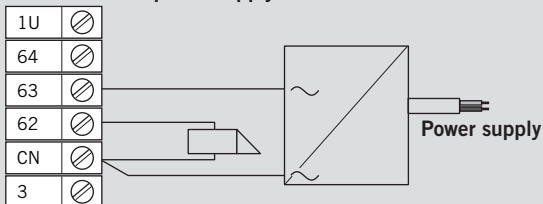
### Locking device (fail-secure type) with external power supply

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

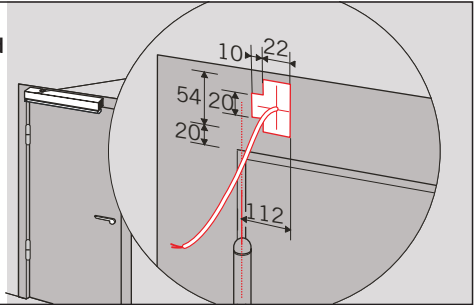
**!** This connection version may only be performed by a properly qualified company.

Disconnect system from power supply (remove fuse).

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

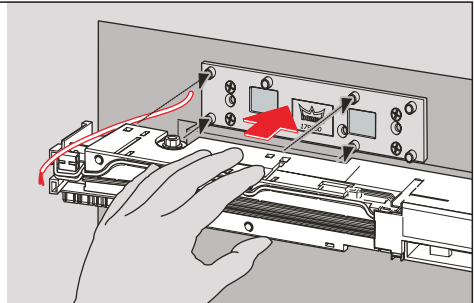
#### 24 V DC connection

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



### 2 Install PORTEO.

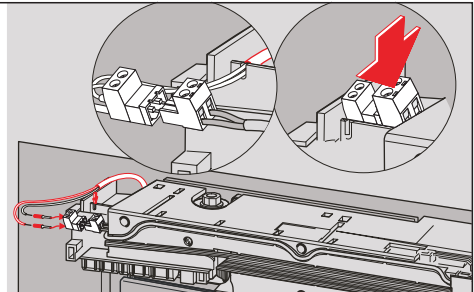
Put the cable into the intended "slot" during the installation.



### 3 Fit connection bayonets.

Protect the cables with the aid of silicone tubes.

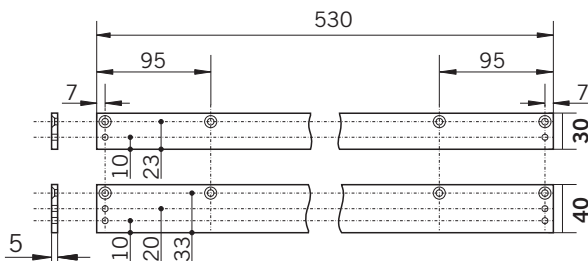
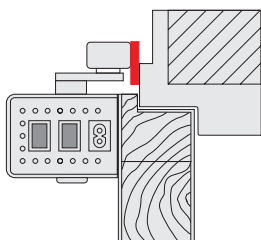
Connect the cable at the terminal and fix with screw, that attach counterpiece.



## Accessories

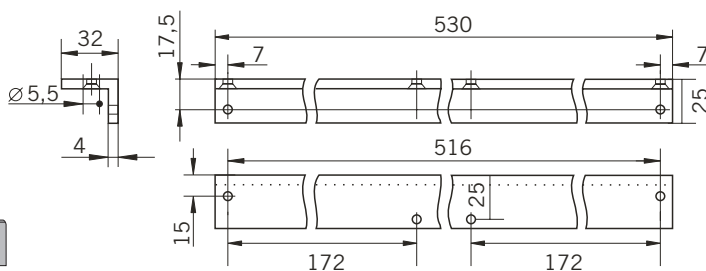
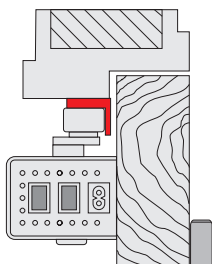
### Mounting plates, 30 mm and 40 mm

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



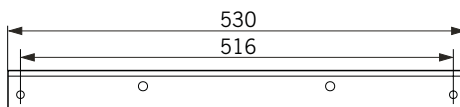
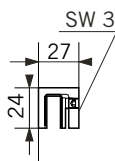
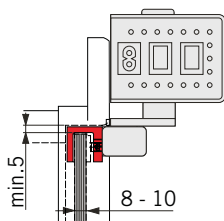
### Angle bracket

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.



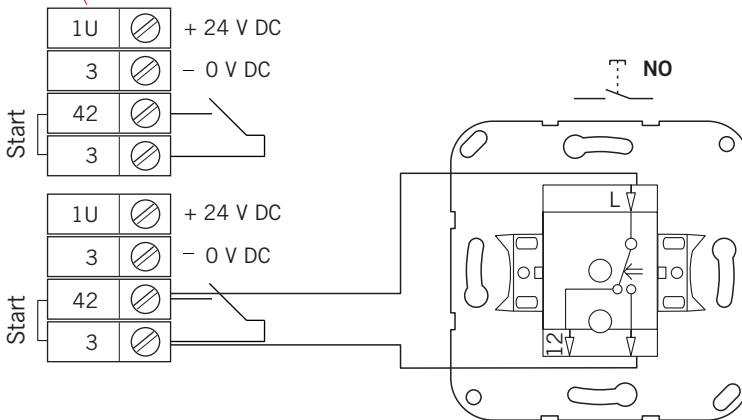
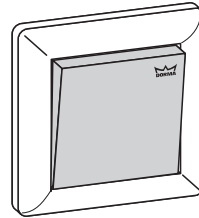
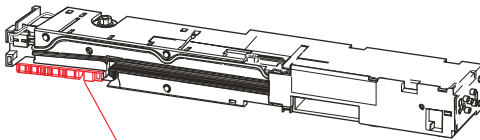
### Safety sensors (optional)

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.

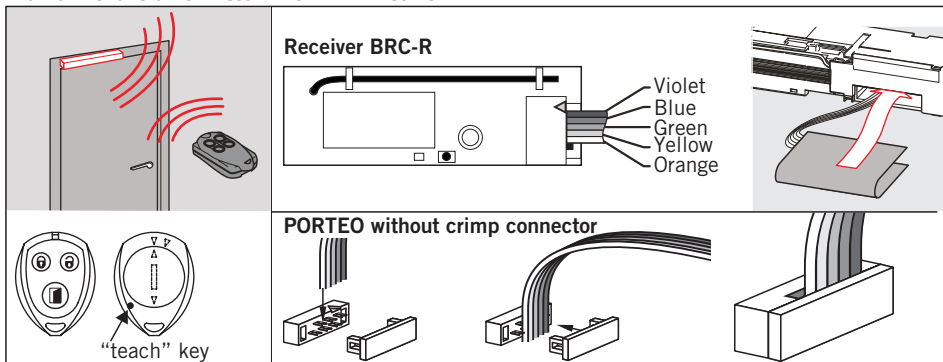
In this case the **PORTEO door assistant** has to be equipped with another connection unit, the **DORMA Comfort Board**.

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

### Manual release switch DORMA system 55 (option)



## Hand-held transmitter DORMA Atent



### DORMA atent radio remote control

DORMA atent is designed to open and close doors automatically via radio control.


**An infinite number of hand-held transmitters may be allocated to the PORTEO. Every hand-held transmitter has to be programmed individually**

The **BRC-R** receiver board (to be ordered separately) is inserted in the provided slot at the **PORTEO**. It is possible to connect the crimp connector of the **PORTEO** direct to the receiver board.


In case the **PORTEO** has not yet been equipped with a crimp connector, the cables of the **PORTEO** may be connected with the aid of the crimp connector accompanying the receiver board. Please connect the violet cable at the side with the arrow marking.

### Programming

#### **Activator 1 - PowerMotion** (Automatic opening/closing of the door)


1. Activate the “teach” key on the **DORMA atent** with the aid of a suitable object.
2. Press and hold the “teach” key on the **BRC-R** receiver board for 4 seconds. The LED blinks red.
3. Push the respective key  on the **DORMA atent** to activate the PowerMotion function
4. The LED goes out and the programming is completed.

#### **Activator 2 - Permanent Open**

1. Activate the “teach” key on the **DORMA atent** with the aid of a suitable object.
2. Shortly push the “teach” key on the **BRC-R** receiver board. The LED blinks red (fast).
3. Then press the “teach” key on the **BRC-R** receiver board again and hold the key for approx. 4 seconds. The red LED now blinks more slowly.
4. Push the respective key  on the **DORMA atent** to activate the Permanent Open function.
5. The LED goes out and the programming is completed.


### Functional characteristics


#### **Activator 1 - PowerMotion** (Automatic opening/closing of the door)

Push the correspondingly programmed key (to open the door).  on the hand-held transmitter:


The door moves to its “open” position and automatically closes on expiry of the adjusted hold-open time.

#### **Activator 2 - Permanent Open** Push the programmed key (to activate the Permanent Open function).

 on the hand-held transmitter:  
The door opens and remains in its “open” position.

- #### Push the programmed key (to activate the Permanent Closed function)
-  on the hand-held transmitter:  
The door opens and remains in its “closed” position.

## Resetting the programming

 **In order to delete the programming, both the DORMA atent and the BRC-R receiver board have to be reset.**

### **DORMA atent**

1. Press and hold the “teach” key on the **DORMA Atent** for more than 5 seconds. The red LED blinks slowly. (If you want to stop the system reset, simply press the “teach” key again for a short time. The red LED no longer blinks slowly but stops blinking.).
2. Press and hold the “teach” key of the **DORMA atent** once more for 5 seconds. The red LED now blinks faster as long as you press and hold the key.
3. As soon as you release the key, the system reset is completed and the LED shows a permanent red light in order to confirm the system reset. The **DORMA atent** has now been reset.

### **BRC-R receiver board**




1. Press and hold the “teach” key on the **BRC-R** receiver board for more than 4 seconds.
2. Press and hold the “teach” key on the **BRC-R** receiver board once more for more than 4 seconds.
3. The system LED blinks fast in order to indicate that the receiver board has been reset successfully.



## 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 DC voltage.	Switch on mains switch.
	Loose cable connections.	Fix the loose the cable connections.
	Defective cable.	Replace cable.
	Fuse switched off.	Switch on fuse.
	Defective door assistant.	Replace door assistant.
The LED light indicator is on. The door does not respond.	The system is adjusted to <b>"PowerLess"</b> mode.	Deactivate <b>"PowerLess"</b> mode via potentiometer 1. See operating instructions on page 24.
	The door has been opened via the flip-flop-function and is thus adjusted to <b>"Permanent Open"</b> .	Close door via flip-flop-function. Activate the pushbutton twice in short succession.
	Defective door assistant.	Replace door assistant.
The LED light indicator blinks. The door does not respond.	The learning cycle has not been completed successfully.	Restart learning cycle.
	External malfunction.	<b>System reset:</b> 1. Set program switch to <b>"0"</b> position. 2. Adjust program switch to the desired operation mode. 3. Set mains switch to <b>"OFF"</b> position. 4. Wait for 5 seconds, then adjust mains switch to <b>"ON"</b> .
	Defective door assistant.	Replace door assistant.
The door stops during ist cycle.	The door does not run smoothly.	Check the door and the driving path and remove the reason for the unsmooth running. Check the slide channel for dirt or wear and clean or replace it if required.
	There is an obstruction within the door's driving path.	Remove obstruction.

## Troubleshooting instructions

Malfunction	Possible cause	Remedy
The door moves beyond the adjusted opening angle.	The opening angle is adjusted incorrectly.	Repeat learning cycle.
	The screws of the slide channel have become loose.	Tighten screws thoroughly.
The door does not reach the adjusted opening angle.	Obstruction in the driving path.	Remove obstruction.
	The opening angle is adjusted incorrectly.	Repeat learning cycle.
	The screws of the slide channel have become loose.	Tighten screws thoroughly.
The door opens automatically following a closing cycle.	The screws of the slide channel have become loose.	Tighten screws thoroughly.
General malfunctions.		<b>System reset:</b> <ol style="list-style-type: none"> <li>1. Set program switch to “0” position.</li> <li>2. Adjust program switch to the desired operation mode.</li> <li>3. Set mains switch to “OFF” position.</li> <li>4. Wait for 5 seconds, then adjust mains switch to “ON”.</li> </ol>

[www.dorma.com/porteo](http://www.dorma.com/porteo)

**DORMA worldwide**



**Door Control**

**Central Europa**

DORMA GmbH + Co. KG  
DORMA Platz 1  
D-58256 Ennepetal  
Phone +49 2333 793-0  
Fax +49 2333 793-495

**Australasia**

DORMA Door Controls Pty. Ltd.  
46-52, Abbott Road  
Hallam/Victoria 3803  
Australia  
Phone +61 3979 63555  
Fax +61 3979 63955

**China/Honh Kong**

DORMA Door Controls  
(Suzhou) Co. Ltd.  
No. 9, Hong Feng Road  
Suzhou Singapore Industrial Park  
Suzhou, 215021  
P.R. of China  
Phone +86 512 67612481  
Fax +86 512 67614582

DORMA Door Controls Pte. Ltd.  
Room 701, Technology Plaza  
651 King's Road  
North Point  
Hong Kong  
Phone +852 25034632  
Fax +852 28875370

**Emerging Markets**

DORMA GmbH + Co. KG  
DORMA Platz 1  
D-58256 Ennepetal  
Phone +49 2333 793-0  
Fax +49 2333 793-495

DORMA Door Controls (Pty.) Ltd.  
Kings Court  
4A Mineral Crescent  
ZA-2000 Crown/Gauteng  
South Africa  
Phone +27 11 8300280  
Fax +27 11 8300291

**Far East**

DORMA Far East Pte. Ltd.  
No. 31 Gul Lane  
Singapore 629425  
Phone +65 6268 7633  
Fax +65 6265 7995

**France**

DORMA France S.A.S.  
Zone Europarc  
Immeuble Mega 42  
42, rue Eugène Dupuis  
F-94046 Créteil Cedex  
Phone +33 1 41942400  
Fax +33 1 41942401

DORMA Accueil S.A.S.  
ZAC de l'Echangeur  
rue Saint Eloi  
F-73100 Grégy sur Aix  
Phone +33 4 79348924  
Fax +33 4 79348923

**Gulf**

DORMA Gulf Door Controls FZE  
Jebel Ali Free Zone South  
Plot No. S 20135  
Road No. SW 301 G  
P.O. Box 17268  
Dubai - United Arab Emirates  
Phone +971 4 8020400  
Fax +971 4 8869100  
+971 4 8869101

**North America**

DORMA Architectural Hardware  
DORMA Drive, Drawer AC  
Reamstown, PA 17567-0411  
Phone +1 800 5238483  
Fax +1 800 2749724

**Scanbalt**

DORMA Sverige AB  
F O Petersons Gata 24  
SE-421 31 Västra Frölunda  
Phone +46 31 289520  
Fax +46 31 281739

**South America**

DORMA Sistemas de controles  
para Portas Ltda.  
Av. Piracema, 1400  
Centro Empresarial Tambore  
CEP 06400-933 Barueri/  
São Paulo, Brasil  
Phone +55 11 46899280  
Fax +55 11 46899215

South-East Europa  
DORMA AUSTRIA GmbH  
Pebering Strass 22  
A-5301 Eugendorf  
Phone +43 6225 284880  
Fax +43 6225 28491

**South Europe**

DORMA Italiana S.r.l.  
Via. Canova 44/46  
I-20035 Lissone (MI)  
Phone +39 039 244031  
Fax +39 039 24403310  
DORMA Ibérica, S.A.  
Camino San Martín de la Vega, 4  
E-28500 Arganda del Rey  
(Madrid)  
Phone +34 91 8757850  
Fax +34 91 8757881

**UK/Ireland**

DORMA UK Ltd.  
Wilbury Way  
Hitchin  
GB-Hertfordshire SG4 0AB  
Great Britain  
Phone +44 1462 477600  
Fax +44 1462 477601



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